2020 Walnut Industrial Park - Off-Road Equipment 4 hour

Los Angeles-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	153.00	1000sqft	3.51	153,000.00	0
Parking Lot	266.00	Space	2.39	106,400.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	9			**Operational Year**	2021
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Per GAA Architects Sheet No. A1.0, total building area for nine light industrial buildings is 153,000 square feet and parking provided is 266 spaces.

Construction Phase - Per construction questionnaire.

Off-road Equipment -

Off-road Equipment - Per construction questionnaire.

Off-road Equipment - Per construction questionnaire. Grading Equipment limited to 4 hours per day.

Off-road Equipment - Per construction questionnaire.

Trips and VMT - 6,278 trips hauling

Grading - 41,672 import of dirt and 8,551 export of dirt

Vehicle Trips - Per Traffic Impact Analysis.

Construction Off-road Equipment Mitigation - Per SCAQMD standards and regulations.

Area Mitigation -

Energy Mitigation -

Waste Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	26
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	20.00	22.00
tblConstructionPhase	NumDays	230.00	264.00
tblConstructionPhase	NumDays	20.00	132.00
tblConstructionPhase	NumDays	20.00	22.00
tblGrading	MaterialExported	0.00	8,551.00
tblGrading	MaterialImported	0.00	41,672.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	7.00	6.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblVehicleTrips	ST_TR	1.32	17.44
tblVehicleTrips	SU_TR	0.68	17.44
tblVehicleTrips	WD_TR	6.97	17.44

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2020	0.5496	6.3783	3.7675	0.0106	0.5706	0.2334	0.8040	0.2072	0.2163	0.4235	0.0000	958.3469	958.3469	0.1905	0.0000	963.1103
2021	0.9450	1.9832	1.9335	4.3500e-003	0.1020	0.0857	0.1877	0.0275	0.0803	0.1078	0.0000	387.6622	387.6622	0.0710	0.0000	389.4383
Maximum	**0.9450**	**6.3783**	**3.7675**	**0.0106**	**0.5706**	**0.2334**	**0.8040**	**0.2072**	**0.2163**	**0.4235**	**0.0000**	**958.3469**	**958.3469**	**0.1905**	**0.0000**	**963.1103**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2020	0.5496	6.3783	3.7675	0.0106	0.2843	0.2334	0.5177	0.0974	0.2163	0.3138	0.0000	958.3463	958.3463	0.1905	0.0000	963.1096
2021	0.9450	1.9832	1.9335	4.3500e-003	0.0798	0.0857	0.1655	0.0221	0.0803	0.1023	0.0000	387.6620	387.6620	0.0710	0.0000	389.4380
Maximum	**0.9450**	**6.3783**	**3.7675**	**0.0106**	**0.2843**	**0.2334**	**0.5177**	**0.0974**	**0.2163**	**0.3138**	**0.0000**	**958.3463**	**958.3463**	**0.1905**	**0.0000**	**963.1096**

	ROG	**NOx**	**CO**	**SO2**	**Fugitive PM10**	**Exhaust PM10**	**PM10 Total**	**Fugitive PM2.5**	**Exhaust PM2.5**	**PM2.5 Total**	**Bio- CO2**	**NBio-CO2**	**Total CO2**	**CH4**	**N20**	**CO2e**
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**45.88**	**0.00**	**31.12**	**49.09**	**0.00**	**21.69**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2020 Walnut Industrial Park - Off-Road Equipment 4 hour - Los Angeles-South Coast County, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-1-2020	3-31-2020	2.3041	2.3041
2	4-1-2020	6-30-2020	2.2970	2.2970
3	7-1-2020	9-30-2020	1.1499	1.1499
4	10-1-2020	12-31-2020	1.1271	1.1271
5	1-1-2021	3-31-2021	0.9988	0.9988
6	4-1-2021	6-30-2021	1.0071	1.0071
7	7-1-2021	9-30-2021	0.9479	0.9479
		Highest	2.3041	2.3041

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.6326	5.0000e-005	5.3700e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0104	0.0104	3.0000e-005	0.0000	0.0111
Energy	0.0149	0.1358	0.1140	8.1000e-004		0.0103	0.0103		0.0103	0.0103	0.0000	700.7606	700.7606	0.0257	7.4300e-003	703.6171
Mobile	1.0199	5.4959	15.5150	0.0551	4.4846	0.0468	4.5314	1.2022	0.0437	1.2458	0.0000	5,083.8630	5,083.8630	0.2652	0.0000	5,090.4923
Waste						0.0000	0.0000		0.0000	0.0000	38.5115	0.0000	38.5115	2.2760	0.0000	95.4105
Water						0.0000	0.0000		0.0000	0.0000	11.2248	146.7887	158.0135	1.1590	0.0285	195.4734
Total	**1.6674**	**5.6317**	**15.6344**	**0.0559**	**4.4846**	**0.0571**	**4.5418**	**1.2022**	**0.0540**	**1.2562**	**49.7363**	**5,931.4226**	**5,981.1589**	**3.7258**	**0.0359**	**6,085.0043**

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.6326	5.0000e-005	5.3700e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0104	0.0104	3.0000e-005	0.0000	0.0111
Energy	0.0149	0.1358	0.1140	8.1000e-004		0.0103	0.0103		0.0103	0.0103	0.0000	700.7606	700.7606	0.0257	7.4300e-003	703.6171
Mobile	1.0199	5.4959	15.5150	0.0551	4.4846	0.0468	4.5314	1.2022	0.0437	1.2458	0.0000	5,083.8630	5,083.8630	0.2652	0.0000	5,090.4923
Waste						0.0000	0.0000		0.0000	0.0000	19.2557	0.0000	19.2557	1.1380	0.0000	47.7052
Water						0.0000	0.0000		0.0000	0.0000	11.2248	146.7887	158.0135	1.1590	0.0285	195.4734
Total	**1.6674**	**5.6317**	**15.6344**	**0.0559**	**4.4846**	**0.0571**	**4.5418**	**1.2022**	**0.0540**	**1.2562**	**30.4806**	**5,931.4226**	**5,961.9032**	**2.5878**	**0.0359**	**6,037.2991**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**38.72**	**0.00**	**0.32**	**30.54**	**0.00**	**0.78**

3.0 Construction Detail

Construction Phase

2020 Walnut Industrial Park - Off-Road Equipment 4 hour - Los Angeles-South Coast County, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading	Grading	1/1/2020	7/2/2020	5	132	
2	Building Construction	Building Construction	7/3/2020	7/7/2021	5	264	
3	Paving	Paving	7/8/2021	8/6/2021	5	22	
4	Architectural Coating	Architectural Coating	8/7/2021	9/7/2021	5	22	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 242

Acres of Paving: 2.39

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 229,500; Non-Residential Outdoor: 76,500; Striped Parking Area: 6,384 (Architectural Coating – sqft)

<u>OffRoad Equipment</u>

2020 Walnut Industrial Park - Off-Road Equipment 4 hour - Los Angeles-South Coast County, Annual

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Cranes	1	4.00	231	0.29
Grading	Crawler Tractors	2	4.00	212	0.43
Grading	Excavators	1	4.00	158	0.38
Grading	Graders	3	4.00	187	0.41
Grading	Rollers	1	4.00	80	0.38
Grading	Rubber Tired Dozers	2	4.00	247	0.40
Grading	Scrapers	3	4.00	367	0.48
Grading	Tractors/Loaders/Backhoes	1	4.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Excavators	1	8.00	158	0.38
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Pavers	1	8.00	130	0.42
Building Construction	Rubber Tired Loaders	1	7.00	203	0.36
Building Construction	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	1	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Grading	14	35.00	0.00	6,278.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	11	109.00	43.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	4	10.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	22.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Replace Ground Cover

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Grading - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.3961	0.0000	0.3961	0.1599	0.0000	0.1599	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2917	3.4248	1.6711	3.7900e-003		0.1405	0.1405		0.1293	0.1293	0.0000	332.8528	332.8528	0.1077	0.0000	335.5441
Total	**0.2917**	**3.4248**	**1.6711**	**3.7900e-003**	**0.3961**	**0.1405**	**0.5366**	**0.1599**	**0.1293**	**0.2892**	**0.0000**	**332.8528**	**332.8528**	**0.1077**	**0.0000**	**335.5441**

3.2 Grading - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0277	0.9322	0.2055	2.4600e-003	0.0540	2.9000e-003	0.0569	0.0148	2.7700e-003	0.0176	0.0000	241.9485	241.9485	0.0169	0.0000	242.3698
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0107	8.6000e-003	0.0951	2.6000e-004	0.0253	2.2000e-004	0.0255	6.7200e-003	2.0000e-004	6.9200e-003	0.0000	23.5932	23.5932	7.4000e-004	0.0000	23.6118
Total	**0.0384**	**0.9408**	**0.3006**	**2.7200e-003**	**0.0793**	**3.1200e-003**	**0.0824**	**0.0215**	**2.9700e-003**	**0.0245**	**0.0000**	**265.5417**	**265.5417**	**0.0176**	**0.0000**	**265.9816**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1468	0.0000	0.1468	0.0593	0.0000	0.0593	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2917	3.4248	1.6711	3.7900e-003		0.1405	0.1405		0.1293	0.1293	0.0000	332.8524	332.8524	0.1077	0.0000	335.5437
Total	**0.2917**	**3.4248**	**1.6711**	**3.7900e-003**	**0.1468**	**0.1405**	**0.2873**	**0.0593**	**0.1293**	**0.1885**	**0.0000**	**332.8524**	**332.8524**	**0.1077**	**0.0000**	**335.5437**

3.2 Grading - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0277	0.9322	0.2055	2.4600e-003	0.0434	2.9000e-003	0.0463	0.0122	2.7700e-003	0.0150	0.0000	241.9485	241.9485	0.0169	0.0000	242.3698
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0107	8.6000e-003	0.0951	2.6000e-004	0.0196	2.2000e-004	0.0198	5.3200e-003	2.0000e-004	5.5200e-003	0.0000	23.5932	23.5932	7.4000e-004	0.0000	23.6118
Total	**0.0384**	**0.9408**	**0.3006**	**2.7200e-003**	**0.0630**	**3.1200e-003**	**0.0661**	**0.0176**	**2.9700e-003**	**0.0205**	**0.0000**	**265.5417**	**265.5417**	**0.0176**	**0.0000**	**265.9816**

3.3 Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1767	1.6834	1.4223	2.5200e-003		0.0877	0.0877		0.0821	0.0821	0.0000	218.1546	218.1546	0.0586	0.0000	219.6194
Total	**0.1767**	**1.6834**	**1.4223**	**2.5200e-003**		**0.0877**	**0.0877**		**0.0821**	**0.0821**	**0.0000**	**218.1546**	**218.1546**	**0.0586**	**0.0000**	**219.6194**

3.3 Building Construction - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0101	0.3029	0.0820	7.2000e-004	0.0176	1.4100e-003	0.0190	5.0800e-003	1.3500e-003	6.4300e-003	0.0000	69.4351	69.4351	4.4100e-003	0.0000	69.5454
Worker	0.0327	0.0264	0.2916	8.0000e-004	0.0776	6.6000e-004	0.0783	0.0206	6.1000e-004	0.0212	0.0000	72.3627	72.3627	2.2800e-003	0.0000	72.4197
Total	**0.0429**	**0.3293**	**0.3736**	**1.5200e-003**	**0.0953**	**2.0700e-003**	**0.0973**	**0.0257**	**1.9600e-003**	**0.0277**	**0.0000**	**141.7978**	**141.7978**	**6.6900e-003**	**0.0000**	**141.9651**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1767	1.6834	1.4223	2.5200e-003		0.0877	0.0877		0.0821	0.0821	0.0000	218.1543	218.1543	0.0586	0.0000	219.6192
Total	**0.1767**	**1.6834**	**1.4223**	**2.5200e-003**		**0.0877**	**0.0877**		**0.0821**	**0.0821**	**0.0000**	**218.1543**	**218.1543**	**0.0586**	**0.0000**	**219.6192**

3.3 Building Construction - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0101	0.3029	0.0820	7.2000e-004	0.0144	1.4100e-003	0.0158	4.2900e-003	1.3500e-003	5.6300e-003	0.0000	69.4351	69.4351	4.4100e-003	0.0000	69.5454
Worker	0.0327	0.0264	0.2916	8.0000e-004	0.0601	6.6000e-004	0.0608	0.0163	6.1000e-004	0.0169	0.0000	72.3627	72.3627	2.2800e-003	0.0000	72.4197
Total	**0.0429**	**0.3293**	**0.3736**	**1.5200e-003**	**0.0745**	**2.0700e-003**	**0.0766**	**0.0206**	**1.9600e-003**	**0.0226**	**0.0000**	**141.7978**	**141.7978**	**6.6900e-003**	**0.0000**	**141.9651**

3.3 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1652	1.5697	1.4477	2.6000e-003		0.0788	0.0788		0.0738	0.0738	0.0000	224.8715	224.8715	0.0600	0.0000	226.3709
Total	**0.1652**	**1.5697**	**1.4477**	**2.6000e-003**		**0.0788**	**0.0788**		**0.0738**	**0.0738**	**0.0000**	**224.8715**	**224.8715**	**0.0600**	**0.0000**	**226.3709**

3.3 Building Construction - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	8.9500e-003	0.2843	0.0771	7.3000e-004	0.0182	5.8000e-004	0.0187	5.2400e-003	5.5000e-004	5.7900e-003	0.0000	71.0157	71.0157	4.3600e-003	0.0000	71.1246
Worker	0.0314	0.0245	0.2762	8.0000e-004	0.0800	6.6000e-004	0.0807	0.0213	6.1000e-004	0.0219	0.0000	72.2206	72.2206	2.1300e-003	0.0000	72.2737
Total	**0.0404**	**0.3088**	**0.3533**	**1.5300e-003**	**0.0982**	**1.2400e-003**	**0.0994**	**0.0265**	**1.1600e-003**	**0.0277**	**0.0000**	**143.2363**	**143.2363**	**6.4900e-003**	**0.0000**	**143.3983**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1652	1.5697	1.4477	2.6000e-003		0.0788	0.0788		0.0738	0.0738	0.0000	224.8712	224.8712	0.0600	0.0000	226.3706
Total	**0.1652**	**1.5697**	**1.4477**	**2.6000e-003**		**0.0788**	**0.0788**		**0.0738**	**0.0738**	**0.0000**	**224.8712**	**224.8712**	**0.0600**	**0.0000**	**226.3706**

3.3 Building Construction - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	8.9500e-003	0.2843	0.0771	7.3000e-004	0.0148	5.8000e-004	0.0154	4.4200e-003	5.5000e-004	4.9700e-003	0.0000	71.0157	71.0157	4.3600e-003	0.0000	71.1246
Worker	0.0314	0.0245	0.2762	8.0000e-004	0.0620	6.6000e-004	0.0627	0.0168	6.1000e-004	0.0174	0.0000	72.2206	72.2206	2.1300e-003	0.0000	72.2737
Total	**0.0404**	**0.3088**	**0.3533**	**1.5300e-003**	**0.0768**	**1.2400e-003**	**0.0780**	**0.0213**	**1.1600e-003**	**0.0224**	**0.0000**	**143.2363**	**143.2363**	**6.4900e-003**	**0.0000**	**143.3983**

3.4 Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	8.4500e-003	0.0867	0.0992	1.5000e-004		4.6500e-003	4.6500e-003		4.2800e-003	4.2800e-003	0.0000	13.2649	13.2649	4.2900e-003	0.0000	13.3722
Paving	3.1300e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0116**	**0.0867**	**0.0992**	**1.5000e-004**		**4.6500e-003**	**4.6500e-003**		**4.2800e-003**	**4.2800e-003**	**0.0000**	**13.2649**	**13.2649**	**4.2900e-003**	**0.0000**	**13.3722**

3.4 Paving - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.7000e-004	3.7000e-004	4.1600e-003	1.0000e-005	1.2100e-003	1.0000e-005	1.2200e-003	3.2000e-004	1.0000e-005	3.3000e-004	0.0000	1.0878	1.0878	3.0000e-005	0.0000	1.0886
Total	**4.7000e-004**	**3.7000e-004**	**4.1600e-003**	**1.0000e-005**	**1.2100e-003**	**1.0000e-005**	**1.2200e-003**	**3.2000e-004**	**1.0000e-005**	**3.3000e-004**	**0.0000**	**1.0878**	**1.0878**	**3.0000e-005**	**0.0000**	**1.0886**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	8.4500e-003	0.0867	0.0992	1.5000e-004		4.6500e-003	4.6500e-003		4.2800e-003	4.2800e-003	0.0000	13.2649	13.2649	4.2900e-003	0.0000	13.3722
Paving	3.1300e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0116**	**0.0867**	**0.0992**	**1.5000e-004**		**4.6500e-003**	**4.6500e-003**		**4.2800e-003**	**4.2800e-003**	**0.0000**	**13.2649**	**13.2649**	**4.2900e-003**	**0.0000**	**13.3722**

3.4 Paving - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.7000e-004	3.7000e-004	4.1600e-003	1.0000e-005	9.3000e-004	1.0000e-005	9.4000e-004	2.5000e-004	1.0000e-005	2.6000e-004	0.0000	1.0878	1.0878	3.0000e-005	0.0000	1.0886
Total	**4.7000e-004**	**3.7000e-004**	**4.1600e-003**	**1.0000e-005**	**9.3000e-004**	**1.0000e-005**	**9.4000e-004**	**2.5000e-004**	**1.0000e-005**	**2.6000e-004**	**0.0000**	**1.0878**	**1.0878**	**3.0000e-005**	**0.0000**	**1.0886**

3.5 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.7240					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.4100e-003	0.0168	0.0200	3.0000e-005		1.0400e-003	1.0400e-003		1.0400e-003	1.0400e-003	0.0000	2.8086	2.8086	1.9000e-004	0.0000	2.8134
Total	**0.7264**	**0.0168**	**0.0200**	**3.0000e-005**		**1.0400e-003**	**1.0400e-003**		**1.0400e-003**	**1.0400e-003**	**0.0000**	**2.8086**	**2.8086**	**1.9000e-004**	**0.0000**	**2.8134**

3.5 Architectural Coating - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0400e-003	8.1000e-004	9.1500e-003	3.0000e-005	2.6500e-003	2.0000e-005	2.6700e-003	7.0000e-004	2.0000e-005	7.2000e-004	0.0000	2.3932	2.3932	7.0000e-005	0.0000	2.3949
Total	**1.0400e-003**	**8.1000e-004**	**9.1500e-003**	**3.0000e-005**	**2.6500e-003**	**2.0000e-005**	**2.6700e-003**	**7.0000e-004**	**2.0000e-005**	**7.2000e-004**	**0.0000**	**2.3932**	**2.3932**	**7.0000e-005**	**0.0000**	**2.3949**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.7240					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.4100e-003	0.0168	0.0200	3.0000e-005		1.0400e-003	1.0400e-003		1.0400e-003	1.0400e-003	0.0000	2.8086	2.8086	1.9000e-004	0.0000	2.8134
Total	**0.7264**	**0.0168**	**0.0200**	**3.0000e-005**		**1.0400e-003**	**1.0400e-003**		**1.0400e-003**	**1.0400e-003**	**0.0000**	**2.8086**	**2.8086**	**1.9000e-004**	**0.0000**	**2.8134**

3.5 Architectural Coating - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0400e-003	8.1000e-004	9.1500e-003	3.0000e-005	2.0500e-003	2.0000e-005	2.0800e-003	5.6000e-004	2.0000e-005	5.8000e-004	0.0000	2.3932	2.3932	7.0000e-005	0.0000	2.3949
Total	**1.0400e-003**	**8.1000e-004**	**9.1500e-003**	**3.0000e-005**	**2.0500e-003**	**2.0000e-005**	**2.0800e-003**	**5.6000e-004**	**2.0000e-005**	**5.8000e-004**	**0.0000**	**2.3932**	**2.3932**	**7.0000e-005**	**0.0000**	**2.3949**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1.0199	5.4959	15.5150	0.0551	4.4846	0.0468	4.5314	1.2022	0.0437	1.2458	0.0000	5,083.8630	5,083.8630	0.2652	0.0000	5,090.4923
Unmitigated	1.0199	5.4959	15.5150	0.0551	4.4846	0.0468	4.5314	1.2022	0.0437	1.2458	0.0000	5,083.8630	5,083.8630	0.2652	0.0000	5,090.4923

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	2,668.32	2,668.32	2668.32	11,816,061	11,816,061
Parking Lot	0.00	0.00	0.00		
Total	2,668.32	2,668.32	2,668.32	11,816,061	11,816,061

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Light Industry	16.60	8.40	6.90	59.00	28.00	13.00	92	5	3
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.547192	0.045177	0.202743	0.121510	0.016147	0.006143	0.019743	0.029945	0.002479	0.002270	0.005078	0.000682	0.000891
Parking Lot	0.547192	0.045177	0.202743	0.121510	0.016147	0.006143	0.019743	0.029945	0.002479	0.002270	0.005078	0.000682	0.000891

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	552.9802	552.9802	0.0228	4.7200e-003	554.9585
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	552.9802	552.9802	0.0228	4.7200e-003	554.9585
NaturalGas Mitigated	0.0149	0.1358	0.1140	8.1000e-004		0.0103	0.0103		0.0103	0.0103	0.0000	147.7804	147.7804	2.8300e-003	2.7100e-003	148.6586
NaturalGas Unmitigated	0.0149	0.1358	0.1140	8.1000e-004		0.0103	0.0103		0.0103	0.0103	0.0000	147.7804	147.7804	2.8300e-003	2.7100e-003	148.6586

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Light Industry	2.7693e+006	0.0149	0.1358	0.1140	8.1000e-004		0.0103	0.0103		0.0103	0.0103	0.0000	147.7804	147.7804	2.8300e-003	2.7100e-003	148.6586
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0149**	**0.1358**	**0.1140**	**8.1000e-004**		**0.0103**	**0.0103**		**0.0103**	**0.0103**	**0.0000**	**147.7804**	**147.7804**	**2.8300e-003**	**2.7100e-003**	**148.6586**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Light Industry	2.7693e+006	0.0149	0.1358	0.1140	8.1000e-004		0.0103	0.0103		0.0103	0.0103	0.0000	147.7804	147.7804	2.8300e-003	2.7100e-003	148.6586
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0149**	**0.1358**	**0.1140**	**8.1000e-004**		**0.0103**	**0.0103**		**0.0103**	**0.0103**	**0.0000**	**147.7804**	**147.7804**	**2.8300e-003**	**2.7100e-003**	**148.6586**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Light Industry	1.6983e+006	541.1148	0.0223	4.6200e-003	543.0506
Parking Lot	37240	11.8655	4.9000e-004	1.0000e-004	11.9079
Total		**552.9802**	**0.0228**	**4.7200e-003**	**554.9585**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Light Industry	1.6983e+006	541.1148	0.0223	4.6200e-003	543.0506
Parking Lot	37240	11.8655	4.9000e-004	1.0000e-004	11.9079
Total		**552.9802**	**0.0228**	**4.7200e-003**	**554.9585**

6.0 Area Detail

6.1 Mitigation Measures Area

No Hearths Installed

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.6326	5.0000e-005	5.3700e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0104	0.0104	3.0000e-005	0.0000	0.0111
Unmitigated	0.6326	5.0000e-005	5.3700e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0104	0.0104	3.0000e-005	0.0000	0.0111

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0724					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.5597					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	5.0000e-004	5.0000e-005	5.3700e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0104	0.0104	3.0000e-005	0.0000	0.0111
Total	**0.6326**	**5.0000e-005**	**5.3700e-003**	**0.0000**		**2.0000e-005**	**2.0000e-005**		**2.0000e-005**	**2.0000e-005**	**0.0000**	**0.0104**	**0.0104**	**3.0000e-005**	**0.0000**	**0.0111**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0724					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.5597					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	5.0000e-004	5.0000e-005	5.3700e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0104	0.0104	3.0000e-005	0.0000	0.0111
Total	**0.6326**	**5.0000e-005**	**5.3700e-003**	**0.0000**		**2.0000e-005**	**2.0000e-005**		**2.0000e-005**	**2.0000e-005**	**0.0000**	**0.0104**	**0.0104**	**3.0000e-005**	**0.0000**	**0.0111**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	158.0135	1.1590	0.0285	195.4734
Unmitigated	158.0135	1.1590	0.0285	195.4734

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Light Industry	35.3813 / 0	158.0135	1.1590	0.0285	195.4734
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**158.0135**	**1.1590**	**0.0285**	**195.4734**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Light Industry	35.3813 / 0	158.0135	1.1590	0.0285	195.4734
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**158.0135**	**1.1590**	**0.0285**	**195.4734**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	19.2557	1.1380	0.0000	47.7052
Unmitigated	38.5115	2.2760	0.0000	95.4105

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	189.72	38.5115	2.2760	0.0000	95.4105
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		**38.5115**	**2.2760**	**0.0000**	**95.4105**

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	94.86	19.2557	1.1380	0.0000	47.7052
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		**19.2557**	**1.1380**	**0.0000**	**47.7052**

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

2020 Walnut Industrial Park - Off-Road Equipment 4 hour

Los Angeles-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	153.00	1000sqft	3.51	153,000.00	0
Parking Lot	266.00	Space	2.39	106,400.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	9			**Operational Year**	2021
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

2020 Walnut Industrial Park - Off-Road Equipment 4 hour - Los Angeles-South Coast County, Summer

Project Characteristics -

Land Use - Per GAA Architects Sheet No. A1.0, total building area for nine light industrial buildings is 153,000 square feet and parking provided is 266 spaces.

Construction Phase - Per construction questionnaire.

Off-road Equipment -

Off-road Equipment - Per construction questionnaire.

Off-road Equipment - Per construction questionnaire. Grading Equipment limited to 4 hours per day.

Off-road Equipment - Per construction questionnaire.

Trips and VMT - 6,278 trips hauling

Grading - 41,672 import of dirt and 8,551 export of dirt

Vehicle Trips - Per Traffic Impact Analysis.

Construction Off-road Equipment Mitigation - Per SCAQMD standards and regulations.

Area Mitigation -

Energy Mitigation -

Waste Mitigation -

2020 Walnut Industrial Park - Off-Road Equipment 4 hour - Los Angeles-South Coast County, Summer

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	26
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	20.00	22.00
tblConstructionPhase	NumDays	230.00	264.00
tblConstructionPhase	NumDays	20.00	132.00
tblConstructionPhase	NumDays	20.00	22.00
tblGrading	MaterialExported	0.00	8,551.00
tblGrading	MaterialImported	0.00	41,672.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	7.00	6.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblVehicleTrips	ST_TR	1.32	17.44
tblVehicleTrips	SU_TR	0.68	17.44
tblVehicleTrips	WD_TR	6.97	17.44

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	4.9960	65.6818	29.8821	0.0991	7.2248	2.1759	9.4007	2.7550	2.0034	4.7584	0.0000	10,041.2306	10,041.2306	2.0880	0.0000	10,093.4304
2021	66.1268	27.9246	27.0895	0.0623	1.4937	1.1938	2.6875	0.4024	1.1180	1.5204	0.0000	6,122.9229	6,122.9229	1.0930	0.0000	6,150.2470
Maximum	**66.1268**	**65.6818**	**29.8821**	**0.0991**	**7.2248**	**2.1759**	**9.4007**	**2.7550**	**2.0034**	**4.7584**	**0.0000**	**10,041.2306**	**10,041.2306**	**2.0880**	**0.0000**	**10,093.4304**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	4.9960	65.6818	29.8821	0.0991	3.1946	2.1759	5.3705	1.1677	2.0034	3.1711	0.0000	10,041.2306	10,041.2306	2.0880	0.0000	10,093.4304
2021	66.1268	27.9246	27.0895	0.0623	1.1673	1.1938	2.3611	0.3223	1.1180	1.4403	0.0000	6,122.9229	6,122.9229	1.0930	0.0000	6,150.2470
Maximum	**66.1268**	**65.6818**	**29.8821**	**0.0991**	**3.1946**	**2.1759**	**5.3705**	**1.1677**	**2.0034**	**3.1711**	**0.0000**	**10,041.2306**	**10,041.2306**	**2.0880**	**0.0000**	**10,093.4304**

	ROG	**NOx**	**CO**	**SO2**	**Fugitive PM10**	**Exhaust PM10**	**PM10 Total**	**Fugitive PM2.5**	**Exhaust PM2.5**	**PM2.5 Total**	**Bio- CO2**	**NBio-CO2**	**Total CO2**	**CH4**	**N20**	**CO2e**
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**49.97**	**0.00**	**36.04**	**52.81**	**0.00**	**26.56**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	3.4678	3.9000e-004	0.0430	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004		0.0917	0.0917	2.4000e-004		0.0978
Energy	0.0818	0.7438	0.6248	4.4600e-003		0.0565	0.0565		0.0565	0.0565		892.6027	892.6027	0.0171	0.0164	897.9070
Mobile	5.8750	28.7324	89.1331	0.3140	25.1259	0.2568	25.3828	6.7244	0.2398	6.9642		31,908.1766	31,908.1766	1.6231		31,948.7532
Total	**9.4246**	**29.4766**	**89.8009**	**0.3184**	**25.1259**	**0.3135**	**25.4394**	**6.7244**	**0.2965**	**7.0209**		**32,800.8711**	**32,800.8711**	**1.6404**	**0.0164**	**32,846.7580**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	3.4678	3.9000e-004	0.0430	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004		0.0917	0.0917	2.4000e-004		0.0978
Energy	0.0818	0.7438	0.6248	4.4600e-003		0.0565	0.0565		0.0565	0.0565		892.6027	892.6027	0.0171	0.0164	897.9070
Mobile	5.8750	28.7324	89.1331	0.3140	25.1259	0.2568	25.3828	6.7244	0.2398	6.9642		31,908.1766	31,908.1766	1.6231		31,948.7532
Total	**9.4246**	**29.4766**	**89.8009**	**0.3184**	**25.1259**	**0.3135**	**25.4394**	**6.7244**	**0.2965**	**7.0209**		**32,800.8711**	**32,800.8711**	**1.6404**	**0.0164**	**32,846.7580**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading	Grading	1/1/2020	7/2/2020	5	132	
2	Building Construction	Building Construction	7/3/2020	7/7/2021	5	264	
3	Paving	Paving	7/8/2021	8/6/2021	5	22	
4	Architectural Coating	Architectural Coating	8/7/2021	9/7/2021	5	22	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 242

Acres of Paving: 2.39

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 229,500; Non-Residential Outdoor: 76,500; Striped Parking Area: 6,384 (Architectural Coating – sqft)

OffRoad Equipment

2020 Walnut Industrial Park - Off-Road Equipment 4 hour - Los Angeles-South Coast County, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Cranes	1	4.00	231	0.29
Grading	Crawler Tractors	2	4.00	212	0.43
Grading	Excavators	1	4.00	158	0.38
Grading	Graders	3	4.00	187	0.41
Grading	Rollers	1	4.00	80	0.38
Grading	Rubber Tired Dozers	2	4.00	247	0.40
Grading	Scrapers	3	4.00	367	0.48
Grading	Tractors/Loaders/Backhoes	1	4.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Excavators	1	8.00	158	0.38
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Pavers	1	8.00	130	0.42
Building Construction	Rubber Tired Loaders	1	7.00	203	0.36
Building Construction	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	1	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Grading	14	35.00	0.00	6,278.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	11	109.00	43.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	4	10.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	22.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Replace Ground Cover

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Grading - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.0020	0.0000	6.0020	2.4233	0.0000	2.4233			0.0000			0.0000
Off-Road	4.4195	51.8916	25.3193	0.0574		2.1290	2.1290		1.9587	1.9587		5,559.2031	5,559.2031	1.7980		5,604.1521
Total	**4.4195**	**51.8916**	**25.3193**	**0.0574**	**6.0020**	**2.1290**	**8.1310**	**2.4233**	**1.9587**	**4.3819**		**5,559.2031**	**5,559.2031**	**1.7980**		**5,604.1521**

3.2 Grading - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.4154	13.6756	3.0304	0.0376	0.8316	0.0437	0.8752	0.2280	0.0418	0.2697		4,070.3880	4,070.3880	0.2771		4,077.3144
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1611	0.1146	1.5325	4.1300e-003	0.3912	3.2700e-003	0.3945	0.1038	3.0100e-003	0.1068		411.6395	411.6395	0.0130		411.9640
Total	**0.5765**	**13.7902**	**4.5629**	**0.0417**	**1.2228**	**0.0469**	**1.2697**	**0.3317**	**0.0448**	**0.3765**		**4,482.0275**	**4,482.0275**	**0.2900**		**4,489.2784**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.2237	0.0000	2.2237	0.8978	0.0000	0.8978			0.0000			0.0000
Off-Road	4.4195	51.8916	25.3193	0.0574		2.1290	2.1290		1.9587	1.9587	0.0000	5,559.2031	5,559.2031	1.7980		5,604.1521
Total	**4.4195**	**51.8916**	**25.3193**	**0.0574**	**2.2237**	**2.1290**	**4.3527**	**0.8978**	**1.9587**	**2.8565**	**0.0000**	**5,559.2031**	**5,559.2031**	**1.7980**		**5,604.1521**

3.2 Grading - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.4154	13.6756	3.0304	0.0376	0.6681	0.0437	0.7117	0.1878	0.0418	0.2296		4,070.3880	4,070.3880	0.2771		4,077.3144
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1611	0.1146	1.5325	4.1300e-003	0.3028	3.2700e-003	0.3061	0.0821	3.0100e-003	0.0851		411.6395	411.6395	0.0130		411.9640
Total	**0.5765**	**13.7902**	**4.5629**	**0.0417**	**0.9709**	**0.0469**	**1.0178**	**0.2699**	**0.0448**	**0.3146**		**4,482.0275**	**4,482.0275**	**0.2900**		**4,489.2784**

3.3 Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.7191	25.8991	21.8809	0.0388		1.3489	1.3489		1.2636	1.2636		3,699.6039	3,699.6039	0.9937		3,724.4457
Total	**2.7191**	**25.8991**	**21.8809**	**0.0388**		**1.3489**	**1.3489**		**1.2636**	**1.2636**		**3,699.6039**	**3,699.6039**	**0.9937**		**3,724.4457**

3.3 Building Construction - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1529	4.5740	1.1984	0.0112	0.2753	0.0215	0.2968	0.0793	0.0206	0.0999		1,191.2062	1,191.2062	0.0727		1,193.0235
Worker	0.5016	0.3569	4.7725	0.0129	1.2184	0.0102	1.2286	0.3231	9.3800e-003	0.3325		1,281.9630	1,281.9630	0.0404		1,282.9735
Total	**0.6546**	**4.9309**	**5.9709**	**0.0240**	**1.4937**	**0.0317**	**1.5254**	**0.4024**	**0.0300**	**0.4324**		**2,473.1692**	**2,473.1692**	**0.1131**		**2,475.9969**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.7191	25.8991	21.8809	0.0388		1.3489	1.3489		1.2636	1.2636	0.0000	3,699.6039	3,699.6039	0.9937		3,724.4457
Total	**2.7191**	**25.8991**	**21.8809**	**0.0388**		**1.3489**	**1.3489**		**1.2636**	**1.2636**	**0.0000**	**3,699.6039**	**3,699.6039**	**0.9937**		**3,724.4457**

3.3 Building Construction - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1529	4.5740	1.1984	0.0112	0.2243	0.0215	0.2458	0.0667	0.0206	0.0873		1,191.2062	1,191.2062	0.0727		1,193.0235
Worker	0.5016	0.3569	4.7725	0.0129	0.9430	0.0102	0.9532	0.2555	9.3800e-003	0.2649		1,281.9630	1,281.9630	0.0404		1,282.9735
Total	**0.6546**	**4.9309**	**5.9709**	**0.0240**	**1.1673**	**0.0317**	**1.1990**	**0.3223**	**0.0300**	**0.3522**		**2,473.1692**	**2,473.1692**	**0.1131**		**2,475.9969**

3.3 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.4658	23.4286	21.6079	0.0388		1.1755	1.1755		1.1008	1.1008		3,699.6771	3,699.6771	0.9868		3,724.3460
Total	**2.4658**	**23.4286**	**21.6079**	**0.0388**		**1.1755**	**1.1755**		**1.1008**	**1.1008**		**3,699.6771**	**3,699.6771**	**0.9868**		**3,724.3460**

3.3 Building Construction - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1307	4.1749	1.0914	0.0111	0.2753	8.5400e-003	0.2838	0.0793	8.1600e-003	0.0874		1,181.9867	1,181.9867	0.0696		1,183.7276
Worker	0.4672	0.3212	4.3902	0.0125	1.2184	9.8400e-003	1.2282	0.3231	9.0700e-003	0.3322		1,241.2591	1,241.2591	0.0366		1,242.1735
Total	**0.5979**	**4.4960**	**5.4817**	**0.0235**	**1.4937**	**0.0184**	**1.5120**	**0.4024**	**0.0172**	**0.4196**		**2,423.2459**	**2,423.2459**	**0.1062**		**2,425.9011**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.4658	23.4286	21.6079	0.0388		1.1755	1.1755		1.1008	1.1008	0.0000	3,699.6771	3,699.6771	0.9868		3,724.3460
Total	**2.4658**	**23.4286**	**21.6079**	**0.0388**		**1.1755**	**1.1755**		**1.1008**	**1.1008**	**0.0000**	**3,699.6771**	**3,699.6771**	**0.9868**		**3,724.3460**

3.3 Building Construction - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1307	4.1749	1.0914	0.0111	0.2243	8.5400e-003	0.2328	0.0667	8.1600e-003	0.0749		1,181.9867	1,181.9867	0.0696		1,183.7276
Worker	0.4672	0.3212	4.3902	0.0125	0.9430	9.8400e-003	0.9528	0.2555	9.0700e-003	0.2646		1,241.2591	1,241.2591	0.0366		1,242.1735
Total	**0.5979**	**4.4960**	**5.4817**	**0.0235**	**1.1673**	**0.0184**	**1.1856**	**0.3223**	**0.0172**	**0.3395**		**2,423.2459**	**2,423.2459**	**0.1062**		**2,425.9011**

3.4 Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7682	7.8814	9.0218	0.0137		0.4227	0.4227		0.3889	0.3889		1,329.2805	1,329.2805	0.4299		1,340.0284
Paving	0.2846					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.0529**	**7.8814**	**9.0218**	**0.0137**		**0.4227**	**0.4227**		**0.3889**	**0.3889**		**1,329.2805**	**1,329.2805**	**0.4299**		**1,340.0284**

3.4 Paving - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0429	0.0295	0.4028	1.1400e-003	0.1118	9.0000e-004	0.1127	0.0296	8.3000e-004	0.0305		113.8770	113.8770	3.3600e-003		113.9609
Total	**0.0429**	**0.0295**	**0.4028**	**1.1400e-003**	**0.1118**	**9.0000e-004**	**0.1127**	**0.0296**	**8.3000e-004**	**0.0305**		**113.8770**	**113.8770**	**3.3600e-003**		**113.9609**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7682	7.8814	9.0218	0.0137		0.4227	0.4227		0.3889	0.3889	0.0000	1,329.2805	1,329.2805	0.4299		1,340.0284
Paving	0.2846					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.0529**	**7.8814**	**9.0218**	**0.0137**		**0.4227**	**0.4227**		**0.3889**	**0.3889**	**0.0000**	**1,329.2805**	**1,329.2805**	**0.4299**		**1,340.0284**

3.4 Paving - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0429	0.0295	0.4028	1.1400e-003	0.0865	9.0000e-004	0.0874	0.0234	8.3000e-004	0.0243		113.8770	113.8770	3.3600e-003		113.9609
Total	**0.0429**	**0.0295**	**0.4028**	**1.1400e-003**	**0.0865**	**9.0000e-004**	**0.0874**	**0.0234**	**8.3000e-004**	**0.0243**		**113.8770**	**113.8770**	**3.3600e-003**		**113.9609**

3.5 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	65.8136					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309
Total	**66.0325**	**1.5268**	**1.8176**	**2.9700e-003**		**0.0941**	**0.0941**		**0.0941**	**0.0941**		**281.4481**	**281.4481**	**0.0193**		**281.9309**

3.5 Architectural Coating - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0943	0.0648	0.8861	2.5200e-003	0.2459	1.9900e-003	0.2479	0.0652	1.8300e-003	0.0671		250.5294	250.5294	7.3800e-003		250.7139
Total	**0.0943**	**0.0648**	**0.8861**	**2.5200e-003**	**0.2459**	**1.9900e-003**	**0.2479**	**0.0652**	**1.8300e-003**	**0.0671**		**250.5294**	**250.5294**	**7.3800e-003**		**250.7139**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	65.8136					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941	0.0000	281.4481	281.4481	0.0193		281.9309
Total	**66.0325**	**1.5268**	**1.8176**	**2.9700e-003**		**0.0941**	**0.0941**		**0.0941**	**0.0941**	**0.0000**	**281.4481**	**281.4481**	**0.0193**		**281.9309**

3.5 Architectural Coating - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0943	0.0648	0.8861	2.5200e-003	0.1903	1.9900e-003	0.1923	0.0516	1.8300e-003	0.0534		250.5294	250.5294	7.3800e-003		250.7139
Total	**0.0943**	**0.0648**	**0.8861**	**2.5200e-003**	**0.1903**	**1.9900e-003**	**0.1923**	**0.0516**	**1.8300e-003**	**0.0534**		**250.5294**	**250.5294**	**7.3800e-003**		**250.7139**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	5.8750	28.7324	89.1331	0.3140	25.1259	0.2568	25.3828	6.7244	0.2398	6.9642		31,908.1766	31,908.1766	1.6231		31,948.7532
Unmitigated	5.8750	28.7324	89.1331	0.3140	25.1259	0.2568	25.3828	6.7244	0.2398	6.9642		31,908.1766	31,908.1766	1.6231		31,948.7532

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	2,668.32	2,668.32	2668.32	11,816,061	11,816,061
Parking Lot	0.00	0.00	0.00		
Total	2,668.32	2,668.32	2,668.32	11,816,061	11,816,061

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Light Industry	16.60	8.40	6.90	59.00	28.00	13.00	92	5	3
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.547192	0.045177	0.202743	0.121510	0.016147	0.006143	0.019743	0.029945	0.002479	0.002270	0.005078	0.000682	0.000891
Parking Lot	0.547192	0.045177	0.202743	0.121510	0.016147	0.006143	0.019743	0.029945	0.002479	0.002270	0.005078	0.000682	0.000891

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0818	0.7438	0.6248	4.4600e-003		0.0565	0.0565		0.0565	0.0565		892.6027	892.6027	0.0171	0.0164	897.9070
NaturalGas Unmitigated	0.0818	0.7438	0.6248	4.4600e-003		0.0565	0.0565		0.0565	0.0565		892.6027	892.6027	0.0171	0.0164	897.9070

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Light Industry	7587.12	0.0818	0.7438	0.6248	4.4600e-003		0.0565	0.0565		0.0565	0.0565		892.6027	892.6027	0.0171	0.0164	897.9070
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0818**	**0.7438**	**0.6248**	**4.4600e-003**		**0.0565**	**0.0565**		**0.0565**	**0.0565**		**892.6027**	**892.6027**	**0.0171**	**0.0164**	**897.9070**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Light Industry	7.58712	0.0818	0.7438	0.6248	4.4600e-003		0.0565	0.0565		0.0565	0.0565		892.6027	892.6027	0.0171	0.0164	897.9070
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0818**	**0.7438**	**0.6248**	**4.4600e-003**		**0.0565**	**0.0565**		**0.0565**	**0.0565**		**892.6027**	**892.6027**	**0.0171**	**0.0164**	**897.9070**

6.0 Area Detail

6.1 Mitigation Measures Area

No Hearths Installed

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	3.4678	3.9000e-004	0.0430	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004		0.0917	0.0917	2.4000e-004		0.0978
Unmitigated	3.4678	3.9000e-004	0.0430	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004		0.0917	0.0917	2.4000e-004		0.0978

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.3967					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.0671					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.0100e-003	3.9000e-004	0.0430	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004		0.0917	0.0917	2.4000e-004		0.0978
Total	**3.4678**	**3.9000e-004**	**0.0430**	**0.0000**		**1.5000e-004**	**1.5000e-004**		**1.5000e-004**	**1.5000e-004**		**0.0917**	**0.0917**	**2.4000e-004**		**0.0978**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.3967					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.0671					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.0100e-003	3.9000e-004	0.0430	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004		0.0917	0.0917	2.4000e-004		0.0978
Total	**3.4678**	**3.9000e-004**	**0.0430**	**0.0000**		**1.5000e-004**	**1.5000e-004**		**1.5000e-004**	**1.5000e-004**		**0.0917**	**0.0917**	**2.4000e-004**		**0.0978**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

2020 Walnut Industrial Park - Off-Road Equipment 4 hour

Los Angeles-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	153.00	1000sqft	3.51	153,000.00	0
Parking Lot	266.00	Space	2.39	106,400.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	9			**Operational Year**	2021
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Per GAA Architects Sheet No. A1.0, total building area for nine light industrial buildings is 153,000 square feet and parking provided is 266 spaces.

Construction Phase - Per construction questionnaire.

Off-road Equipment -

Off-road Equipment - Per construction questionnaire.

Off-road Equipment - Per construction questionnaire. Grading Equipment limited to 4 hours per day.

Off-road Equipment - Per construction questionnaire.

Trips and VMT - 6,278 trips hauling

Grading - 41,672 import of dirt and 8,551 export of dirt

Vehicle Trips - Per Traffic Impact Analysis.

Construction Off-road Equipment Mitigation - Per SCAQMD standards and regulations.

Area Mitigation -

Energy Mitigation -

Waste Mitigation -

2020 Walnut Industrial Park - Off-Road Equipment 4 hour - Los Angeles-South Coast County, Winter

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	26
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	20.00	22.00
tblConstructionPhase	NumDays	230.00	264.00
tblConstructionPhase	NumDays	20.00	132.00
tblConstructionPhase	NumDays	20.00	22.00
tblGrading	MaterialExported	0.00	8,551.00
tblGrading	MaterialImported	0.00	41,672.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	7.00	6.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblVehicleTrips	ST_TR	1.32	17.44
tblVehicleTrips	SU_TR	0.68	17.44
tblVehicleTrips	WD_TR	6.97	17.44

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	5.0239	65.8711	29.9434	0.0982	7.2248	2.1766	9.4014	2.7550	2.0041	4.7591	0.0000	9,947.0946	9,947.0946	2.0973	0.0000	9,999.5272
2021	66.1374	27.9503	26.8292	0.0613	1.4937	1.1941	2.6878	0.4024	1.1183	1.5206	0.0000	6,018.0165	6,018.0165	1.0954	0.0000	6,045.4006
Maximum	**66.1374**	**65.8711**	**29.9434**	**0.0982**	**7.2248**	**2.1766**	**9.4014**	**2.7550**	**2.0041**	**4.7591**	**0.0000**	**9,947.0946**	**9,947.0946**	**2.0973**	**0.0000**	**9,999.5272**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	5.0239	65.8711	29.9434	0.0982	3.1946	2.1766	5.3712	1.1677	2.0041	3.1718	0.0000	9,947.0946	9,947.0946	2.0973	0.0000	9,999.5272
2021	66.1374	27.9503	26.8292	0.0613	1.1673	1.1941	2.3614	0.3223	1.1183	1.4405	0.0000	6,018.0165	6,018.0165	1.0954	0.0000	6,045.4006
Maximum	**66.1374**	**65.8711**	**29.9434**	**0.0982**	**3.1946**	**2.1766**	**5.3712**	**1.1677**	**2.0041**	**3.1718**	**0.0000**	**9,947.0946**	**9,947.0946**	**2.0973**	**0.0000**	**9,999.5272**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**49.97**	**0.00**	**36.04**	**52.81**	**0.00**	**26.55**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	3.4678	3.9000e-004	0.0430	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004		0.0917	0.0917	2.4000e-004		0.0978
Energy	0.0818	0.7438	0.6248	4.4600e-003		0.0565	0.0565		0.0565	0.0565		892.6027	892.6027	0.0171	0.0164	897.9070
Mobile	5.7113	29.6320	83.8253	0.2987	25.1259	0.2579	25.3838	6.7244	0.2408	6.9652		30,380.8644	30,380.8644	1.6085		30,421.0778
Total	**9.2609**	**30.3762**	**84.4931**	**0.3032**	**25.1259**	**0.3145**	**25.4405**	**6.7244**	**0.2975**	**7.0219**		**31,273.5589**	**31,273.5589**	**1.6259**	**0.0164**	**31,319.0827**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	3.4678	3.9000e-004	0.0430	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004		0.0917	0.0917	2.4000e-004		0.0978
Energy	0.0818	0.7438	0.6248	4.4600e-003		0.0565	0.0565		0.0565	0.0565		892.6027	892.6027	0.0171	0.0164	897.9070
Mobile	5.7113	29.6320	83.8253	0.2987	25.1259	0.2579	25.3838	6.7244	0.2408	6.9652		30,380.8644	30,380.8644	1.6085		30,421.0778
Total	**9.2609**	**30.3762**	**84.4931**	**0.3032**	**25.1259**	**0.3145**	**25.4405**	**6.7244**	**0.2975**	**7.0219**		**31,273.5589**	**31,273.5589**	**1.6259**	**0.0164**	**31,319.0827**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading	Grading	1/1/2020	7/2/2020	5	132	
2	Building Construction	Building Construction	7/3/2020	7/7/2021	5	264	
3	Paving	Paving	7/8/2021	8/6/2021	5	22	
4	Architectural Coating	Architectural Coating	8/7/2021	9/7/2021	5	22	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 242

Acres of Paving: 2.39

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 229,500; Non-Residential Outdoor: 76,500; Striped Parking Area: 6,384 (Architectural Coating – sqft)

OffRoad Equipment

2020 Walnut Industrial Park - Off-Road Equipment 4 hour - Los Angeles-South Coast County, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Cranes	1	4.00	231	0.29
Grading	Crawler Tractors	2	4.00	212	0.43
Grading	Excavators	1	4.00	158	0.38
Grading	Graders	3	4.00	187	0.41
Grading	Rollers	1	4.00	80	0.38
Grading	Rubber Tired Dozers	2	4.00	247	0.40
Grading	Scrapers	3	4.00	367	0.48
Grading	Tractors/Loaders/Backhoes	1	4.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Excavators	1	8.00	158	0.38
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Pavers	1	8.00	130	0.42
Building Construction	Rubber Tired Loaders	1	7.00	203	0.36
Building Construction	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	1	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Grading	14	35.00	0.00	6,278.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	11	109.00	43.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	4	10.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	22.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Replace Ground Cover

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Grading - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.0020	0.0000	6.0020	2.4233	0.0000	2.4233			0.0000			0.0000
Off-Road	4.4195	51.8916	25.3193	0.0574		2.1290	2.1290		1.9587	1.9587		5,559.2031	5,559.2031	1.7980		5,604.1521
Total	**4.4195**	**51.8916**	**25.3193**	**0.0574**	**6.0020**	**2.1290**	**8.1310**	**2.4233**	**1.9587**	**4.3819**		**5,559.2031**	**5,559.2031**	**1.7980**		**5,604.1521**

3.2 Grading - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.4255	13.8526	3.2206	0.0369	0.8316	0.0443	0.8759	0.2280	0.0424	0.2704		4,000.2944	4,000.2944	0.2871		4,007.4726
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1789	0.1269	1.4035	3.8900e-003	0.3912	3.2700e-003	0.3945	0.1038	3.0100e-003	0.1068		387.5971	387.5971	0.0122		387.9026
Total	**0.6044**	**13.9795**	**4.6241**	**0.0408**	**1.2228**	**0.0476**	**1.2704**	**0.3317**	**0.0454**	**0.3771**		**4,387.8915**	**4,387.8915**	**0.2994**		**4,395.3752**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.2237	0.0000	2.2237	0.8978	0.0000	0.8978			0.0000			0.0000
Off-Road	4.4195	51.8916	25.3193	0.0574		2.1290	2.1290		1.9587	1.9587	0.0000	5,559.2031	5,559.2031	1.7980		5,604.1521
Total	**4.4195**	**51.8916**	**25.3193**	**0.0574**	**2.2237**	**2.1290**	**4.3527**	**0.8978**	**1.9587**	**2.8565**	**0.0000**	**5,559.2031**	**5,559.2031**	**1.7980**		**5,604.1521**

3.2 Grading - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.4255	13.8526	3.2206	0.0369	0.6681	0.0443	0.7124	0.1878	0.0424	0.2302		4,000.2944	4,000.2944	0.2871		4,007.4726
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1789	0.1269	1.4035	3.8900e-003	0.3028	3.2700e-003	0.3061	0.0821	3.0100e-003	0.0851		387.5971	387.5971	0.0122		387.9026
Total	**0.6044**	**13.9795**	**4.6241**	**0.0408**	**0.9709**	**0.0476**	**1.0185**	**0.2699**	**0.0454**	**0.3153**		**4,387.8915**	**4,387.8915**	**0.2994**		**4,395.3752**

3.3 Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.7191	25.8991	21.8809	0.0388		1.3489	1.3489		1.2636	1.2636		3,699.6039	3,699.6039	0.9937		3,724.4457
Total	**2.7191**	**25.8991**	**21.8809**	**0.0388**		**1.3489**	**1.3489**		**1.2636**	**1.2636**		**3,699.6039**	**3,699.6039**	**0.9937**		**3,724.4457**

3.3 Building Construction - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1599	4.5731	1.3218	0.0109	0.2753	0.0219	0.2972	0.0793	0.0209	0.1002		1,158.6310	1,158.6310	0.0775		1,160.5679
Worker	0.5570	0.3951	4.3710	0.0121	1.2184	0.0102	1.2286	0.3231	9.3800e-003	0.3325		1,207.0882	1,207.0882	0.0381		1,208.0394
Total	**0.7169**	**4.9682**	**5.6928**	**0.0230**	**1.4937**	**0.0321**	**1.5257**	**0.4024**	**0.0303**	**0.4327**		**2,365.7192**	**2,365.7192**	**0.1155**		**2,368.6073**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.7191	25.8991	21.8809	0.0388		1.3489	1.3489		1.2636	1.2636	0.0000	3,699.6039	3,699.6039	0.9937		3,724.4457
Total	**2.7191**	**25.8991**	**21.8809**	**0.0388**		**1.3489**	**1.3489**		**1.2636**	**1.2636**	**0.0000**	**3,699.6039**	**3,699.6039**	**0.9937**		**3,724.4457**

3.3 Building Construction - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1599	4.5731	1.3218	0.0109	0.2243	0.0219	0.2462	0.0667	0.0209	0.0877		1,158.6310	1,158.6310	0.0775		1,160.5679
Worker	0.5570	0.3951	4.3710	0.0121	0.9430	0.0102	0.9532	0.2555	9.3800e-003	0.2649		1,207.0882	1,207.0882	0.0381		1,208.0394
Total	**0.7169**	**4.9682**	**5.6928**	**0.0230**	**1.1673**	**0.0321**	**1.1993**	**0.3223**	**0.0303**	**0.3526**		**2,365.7192**	**2,365.7192**	**0.1155**		**2,368.6073**

3.3 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.4658	23.4286	21.6079	0.0388		1.1755	1.1755		1.1008	1.1008		3,699.6771	3,699.6771	0.9868		3,724.3460
Total	**2.4658**	**23.4286**	**21.6079**	**0.0388**		**1.1755**	**1.1755**		**1.1008**	**1.1008**		**3,699.6771**	**3,699.6771**	**0.9868**		**3,724.3460**

3.3 Building Construction - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1372	4.1662	1.2073	0.0108	0.2753	8.8100e-003	0.2841	0.0793	8.4300e-003	0.0877		1,149.5858	1,149.5858	0.0742		1,151.4411
Worker	0.5197	0.3555	4.0140	0.0117	1.2184	9.8400e-003	1.2282	0.3231	9.0700e-003	0.3322		1,168.7537	1,168.7537	0.0344		1,169.6135
Total	**0.6569**	**4.5217**	**5.2213**	**0.0225**	**1.4937**	**0.0187**	**1.5123**	**0.4024**	**0.0175**	**0.4199**		**2,318.3395**	**2,318.3395**	**0.1086**		**2,321.0546**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.4658	23.4286	21.6079	0.0388		1.1755	1.1755		1.1008	1.1008	0.0000	3,699.6771	3,699.6771	0.9868		3,724.3460
Total	**2.4658**	**23.4286**	**21.6079**	**0.0388**		**1.1755**	**1.1755**		**1.1008**	**1.1008**	**0.0000**	**3,699.6771**	**3,699.6771**	**0.9868**		**3,724.3460**

3.3 Building Construction - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1372	4.1662	1.2073	0.0108	0.2243	8.8100e-003	0.2331	0.0667	8.4300e-003	0.0752		1,149.5858	1,149.5858	0.0742		1,151.4411
Worker	0.5197	0.3555	4.0140	0.0117	0.9430	9.8400e-003	0.9528	0.2555	9.0700e-003	0.2646		1,168.7537	1,168.7537	0.0344		1,169.6135
Total	**0.6569**	**4.5217**	**5.2213**	**0.0225**	**1.1673**	**0.0187**	**1.1859**	**0.3223**	**0.0175**	**0.3398**		**2,318.3395**	**2,318.3395**	**0.1086**		**2,321.0546**

3.4 Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7682	7.8814	9.0218	0.0137		0.4227	0.4227		0.3889	0.3889		1,329.2805	1,329.2805	0.4299		1,340.0284
Paving	0.2846					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.0529**	**7.8814**	**9.0218**	**0.0137**		**0.4227**	**0.4227**		**0.3889**	**0.3889**		**1,329.2805**	**1,329.2805**	**0.4299**		**1,340.0284**

3.4 Paving - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0477	0.0326	0.3683	1.0800e-003	0.1118	9.0000e-004	0.1127	0.0296	8.3000e-004	0.0305		107.2251	107.2251	3.1600e-003		107.3040
Total	**0.0477**	**0.0326**	**0.3683**	**1.0800e-003**	**0.1118**	**9.0000e-004**	**0.1127**	**0.0296**	**8.3000e-004**	**0.0305**		**107.2251**	**107.2251**	**3.1600e-003**		**107.3040**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7682	7.8814	9.0218	0.0137		0.4227	0.4227		0.3889	0.3889	0.0000	1,329.2805	1,329.2805	0.4299		1,340.0284
Paving	0.2846					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.0529**	**7.8814**	**9.0218**	**0.0137**		**0.4227**	**0.4227**		**0.3889**	**0.3889**	**0.0000**	**1,329.2805**	**1,329.2805**	**0.4299**		**1,340.0284**

3.4 Paving - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0477	0.0326	0.3683	1.0800e-003	0.0865	9.0000e-004	0.0874	0.0234	8.3000e-004	0.0243		107.2251	107.2251	3.1600e-003		107.3040
Total	**0.0477**	**0.0326**	**0.3683**	**1.0800e-003**	**0.0865**	**9.0000e-004**	**0.0874**	**0.0234**	**8.3000e-004**	**0.0243**		**107.2251**	**107.2251**	**3.1600e-003**		**107.3040**

3.5 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	65.8136					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309
Total	**66.0325**	**1.5268**	**1.8176**	**2.9700e-003**		**0.0941**	**0.0941**		**0.0941**	**0.0941**		**281.4481**	**281.4481**	**0.0193**		**281.9309**

3.5 Architectural Coating - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1049	0.0718	0.8102	2.3700e-003	0.2459	1.9900e-003	0.2479	0.0652	1.8300e-003	0.0671		235.8952	235.8952	6.9400e-003		236.0688
Total	**0.1049**	**0.0718**	**0.8102**	**2.3700e-003**	**0.2459**	**1.9900e-003**	**0.2479**	**0.0652**	**1.8300e-003**	**0.0671**		**235.8952**	**235.8952**	**6.9400e-003**		**236.0688**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	65.8136					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941	0.0000	281.4481	281.4481	0.0193		281.9309
Total	**66.0325**	**1.5268**	**1.8176**	**2.9700e-003**		**0.0941**	**0.0941**		**0.0941**	**0.0941**	**0.0000**	**281.4481**	**281.4481**	**0.0193**		**281.9309**

3.5 Architectural Coating - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1049	0.0718	0.8102	2.3700e-003	0.1903	1.9900e-003	0.1923	0.0516	1.8300e-003	0.0534		235.8952	235.8952	6.9400e-003		236.0688
Total	**0.1049**	**0.0718**	**0.8102**	**2.3700e-003**	**0.1903**	**1.9900e-003**	**0.1923**	**0.0516**	**1.8300e-003**	**0.0534**		**235.8952**	**235.8952**	**6.9400e-003**		**236.0688**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	5.7113	29.6320	83.8253	0.2987	25.1259	0.2579	25.3838	6.7244	0.2408	6.9652		30,380.8644	30,380.8644	1.6085		30,421.0778
Unmitigated	5.7113	29.6320	83.8253	0.2987	25.1259	0.2579	25.3838	6.7244	0.2408	6.9652		30,380.8644	30,380.8644	1.6085		30,421.0778

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	2,668.32	2,668.32	2668.32	11,816,061	11,816,061
Parking Lot	0.00	0.00	0.00		
Total	2,668.32	2,668.32	2,668.32	11,816,061	11,816,061

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Light Industry	16.60	8.40	6.90	59.00	28.00	13.00	92	5	3
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.547192	0.045177	0.202743	0.121510	0.016147	0.006143	0.019743	0.029945	0.002479	0.002270	0.005078	0.000682	0.000891
Parking Lot	0.547192	0.045177	0.202743	0.121510	0.016147	0.006143	0.019743	0.029945	0.002479	0.002270	0.005078	0.000682	0.000891

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0818	0.7438	0.6248	4.4600e-003		0.0565	0.0565		0.0565	0.0565		892.6027	892.6027	0.0171	0.0164	897.9070
NaturalGas Unmitigated	0.0818	0.7438	0.6248	4.4600e-003		0.0565	0.0565		0.0565	0.0565		892.6027	892.6027	0.0171	0.0164	897.9070

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Light Industry	7587.12	0.0818	0.7438	0.6248	4.4600e-003		0.0565	0.0565		0.0565	0.0565		892.6027	892.6027	0.0171	0.0164	897.9070
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0818**	**0.7438**	**0.6248**	**4.4600e-003**		**0.0565**	**0.0565**		**0.0565**	**0.0565**		**892.6027**	**892.6027**	**0.0171**	**0.0164**	**897.9070**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Light Industry	7.58712	0.0818	0.7438	0.6248	4.4600e-003		0.0565	0.0565		0.0565	0.0565		892.6027	892.6027	0.0171	0.0164	897.9070
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0818**	**0.7438**	**0.6248**	**4.4600e-003**		**0.0565**	**0.0565**		**0.0565**	**0.0565**		**892.6027**	**892.6027**	**0.0171**	**0.0164**	**897.9070**

6.0 Area Detail

6.1 Mitigation Measures Area

No Hearths Installed

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	3.4678	3.9000e-004	0.0430	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004		0.0917	0.0917	2.4000e-004		0.0978
Unmitigated	3.4678	3.9000e-004	0.0430	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004		0.0917	0.0917	2.4000e-004		0.0978

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.3967					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.0671					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.0100e-003	3.9000e-004	0.0430	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004		0.0917	0.0917	2.4000e-004		0.0978
Total	**3.4678**	**3.9000e-004**	**0.0430**	**0.0000**		**1.5000e-004**	**1.5000e-004**		**1.5000e-004**	**1.5000e-004**		**0.0917**	**0.0917**	**2.4000e-004**		**0.0978**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.3967					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.0671					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.0100e-003	3.9000e-004	0.0430	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004		0.0917	0.0917	2.4000e-004		0.0978
Total	**3.4678**	**3.9000e-004**	**0.0430**	**0.0000**		**1.5000e-004**	**1.5000e-004**		**1.5000e-004**	**1.5000e-004**		**0.0917**	**0.0917**	**2.4000e-004**		**0.0978**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

tblProjectCharacteristics

ProjectNan	LocationSc	EMFAC_ID	WindSpee	Precipitatio	ClimateZor	Urbanizatic	Operationa	UtilityComp
2020 Waln C		LASC	2.2	33	9	Urban	2021	Southern C

tblProjectCharacteristics

CO2Intens	CH4Intensi	N2OIntensi	TotalPopul	TotalLotAc	UsingHisto	ConstructionPhaseStartDate
702.44	0.029	0.006	0	5.9	0	2020/01/01

PollutantSe	PollutantFu	PollutantName
1	Reactive O	ROG
1	Nitrogen O	NOX
1	Carbon Mo	CO
1	Sulfur Diox	SO2
1	Particulate	PM10
1	Particulate	PM2_5
1	Fugitive PM	PM10_FUG
1	Fugitive PM	PM25_FUG
1	Biogenic C	CO2_BIO
1	Non-Biogen	CO2_NBIO
1	Carbon Dio	CO2
1	Methane (C	CH4
1	Nitrous Oxi	N2O
1	CO2 Equiv	CO2E

LandUseTy	LandUseSu	LandUseUn	LandUseSi	LotAcreage	LandUseSc	Population	BuildingSpa	GreenSpac
Industrial	General Lig	153	1000sqft	3.51	153000	0	153000	0
Parking	Parking Lo	266	Space	2.39	106400	0	106400	0

RecSwimmingAreaAllowEdit
0
0

tblConstructionPhase

PhaseNum	PhaseName	PhaseType	PhaseStartDate	PhaseEndDate	NumDaysV	NumDays
1	Grading	Grading	2020/01/01	2020/07/02	5	132
2	Building Constr	Building Constructio	2020/07/03	2021/07/07	5	264
3	Paving	Paving	2021/07/08	2021/08/06	5	22
4	Architectural C	Architectural Coating	2021/08/07	2021/09/07	5	22

PhaseDescription

PhaseNam	OffRoadEq	OffRoadEq	UsageHou	HorsePowe	LoadFactor
Grading	Cranes	1	4	231	0.29
Grading	Crawler Tra	2	4	212	0.43
Grading	Excavators	1	4	158	0.38
Grading	Graders	3	4	187	0.41
Grading	Rollers	1	4	80	0.38
Grading	Rubber Tire	2	4	247	0.4
Grading	Scrapers	3	4	367	0.48
Grading	Tractors/Lo	1	4	97	0.37
Building Co	Cranes	1	7	231	0.29
Building Co	Excavators	1	8	158	0.38
Building Co	Forklifts	3	8	89	0.2
Building Co	Generator	1	8	84	0.74
Building Co	Pavers	1	8	130	0.42
Building Co	Rubber Tire	1	7	203	0.36
Building Co	Tractors/Lo	2	6	97	0.37
Building Co	Welders	1	8	46	0.45
Paving	Pavers	1	8	130	0.42
Paving	Paving Equ	1	8	132	0.36
Paving	Rollers	1	8	80	0.38
Paving	Tractors/Lo	1	6	97	0.37
Architectur	Air Compre	1	6	78	0.48

PhaseNam	WorkerTrip	VendorTrip	HaulingTrip	WorkerTrip	VendorTrip	HaulingTrip	WorkerVeh	VendorVeh
Grading	35	0	6278	14.7	6.9	20	LD_Mix	HDT_Mix
Building Co	109	43	0	14.7	6.9	20	LD_Mix	HDT_Mix
Paving	10	0	0	14.7	6.9	20	LD_Mix	HDT_Mix
Architectur	22	0	0	14.7	6.9	20	LD_Mix	HDT_Mix

HaulingVehicleClass
HHDT
HHDT
HHDT
HHDT

PhaseNam	WorkerPer	VendorPer	HaulingPer	RoadSiltLo	MaterialSilt	MaterialMo	AverageVe	MeanVehic
Grading	100	100	100	0.1	8.5	0.5	2.4	40
Building Co	100	100	100	0.1	8.5	0.5	2.4	40
Paving	100	100	100	0.1	8.5	0.5	2.4	40
Architectur	100	100	100	0.1	8.5	0.5	2.4	40

:leSpeed

tblDemolition

PhaseNam	Demolition	DemolitionUnitAmount

tblGrading

PhaseNam	MaterialImp	MaterialExp	GradingSiz	ImportExpo	MeanVehic	AcresOfGr	MaterialMo	MaterialMo
Grading	41672	8551	Cubic Yard	0	7.1	242	7.9	12

MaterialSiltContent
6.9

PhaseNam	Architectur	Architectur	EF_Reside	ConstArea_	EF_Reside	ConstArea_	EF_Nonres	ConstArea_
Architectur	2014/01/01	3000/12/31	50	0	50	0	100	229500

EF_Nonres	ConstArea_	EF_Parkin	ConstArea_Parking
100	76500	100	6384

ParkingLotAcreage

VehicleTrip	VehicleTrip	WD_TR	ST_TR	SU_TR	HW_TL	HS_TL	HO_TL	CC_TL
General Lig	1000sqft	17.44	17.44	17.44	0	0	0	8.4
Parking Lo	Space	0	0	0	0	0	0	8.4

CW_TL	CNW_TL	PR_TP	DV_TP	PB_TP	HW_TTP	HS_TTP	HO_TTP	CC_TTP
16.6	6.9	92	5	3	0	0	0	28
16.6	6.9	0	0	0	0	0	0	0

CW_TTP	CNW_TTP
59	13
0	0

Season	EmissionTy	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD
A	CH4_IDLE	0	0	0	0	0.006012	0.004341	0.016318
A	CH4_RUNI	0.005916	0.017217	0.007874	0.015092	0.013951	0.005023	0.005701
A	CH4_STRE	0.006188	0.015933	0.007244	0.016038	0.021798	0.009903	0.05397
A	CO_IDLEX	0	0	0	0	0.155155	0.1331	0.385208
A	CO_RUNE	0.705492	1.843088	0.90067	1.56484	0.942656	0.391895	0.422436
A	CO_STRE	1.271441	3.088242	1.49056	2.7901	3.041802	1.508316	6.846567
A	CO2_NBIC	0	0	0	0	8.907841	13.55329	131.0203
A	CO2_NBIC	285.6298	351.4255	395.4202	528.6542	612.9266	625.7343	1155.794
A	CO2_NBIC	59.19247	71.32174	80.67628	106.3507	34.52236	28.88744	65.07594
A	NOX_IDLE	0	0	0	0	0.069981	0.096715	0.515181
A	NOX_RUN	0.058028	0.173427	0.090103	0.170276	1.05052	0.759021	1.230111
A	NOX_STRI	0.079806	0.178066	0.12225	0.251216	1.070825	0.606563	9.824838
A	PM10_IDLI	0	0	0	0	0.000816	0.001176	0.000286
A	PM10_PMI	0.03675	0.03675	0.03675	0.03675	0.07644	0.08918	0.13034
A	PM10_PMT	0.008	0.008	0.008	0.008	0.009978	0.010572	0.012
A	PM10_RUN	0.002229	0.003739	0.002162	0.002428	0.009402	0.009305	0.005641
A	PM10_STF	0.002301	0.003599	0.002349	0.002583	0.001085	0.000506	0.000891
A	PM25_IDLI	0	0	0	0	0.000781	0.001125	0.000273
A	PM25_PMI	0.01575	0.01575	0.01575	0.01575	0.03276	0.03822	0.05586
A	PM25_PMT	0.002	0.002	0.002	0.002	0.002495	0.002643	0.003
A	PM25_RUN	0.002056	0.003444	0.001988	0.00224	0.008967	0.008887	0.005392
A	PM25_STF	0.002116	0.00331	0.00216	0.002378	0.000998	0.000465	0.000819
A	ROG_DIUF	0.042946	0.136272	0.047428	0.069832	0.003313	0.001267	0.001239
A	ROG_HTS	0.110353	0.283562	0.107933	0.161127	0.107793	0.042981	0.049404
A	ROG_IDLE	0	0	0	0	0.017889	0.015135	0.02735
A	ROG_RES	0.039574	0.112426	0.047157	0.072096	0.001991	0.000809	0.000791
A	ROG_RUN	0.014972	0.043105	0.019584	0.043935	0.068819	0.047392	0.04887
A	ROG_RUN	0.041353	0.180715	0.063322	0.090497	0.317993	0.095144	0.023102
A	ROG_STR	0.08346	0.21489	0.097699	0.216402	0.293969	0.133552	0.41972
A	SO2_IDLE	0	0	0	0	0.00009	0.000133	0.001263
A	SO2_RUNI	0.002862	0.003538	0.003962	0.005299	0.006026	0.006101	0.0111
A	SO2_STRE	0.000614	0.000767	0.000832	0.001113	0.000402	0.000316	0.000771
A	TOG_DIUF	0.042946	0.136272	0.047428	0.069832	0.003313	0.001267	0.001239
A	TOG_HTSI	0.110353	0.283562	0.107933	0.161127	0.107793	0.042981	0.049404
A	TOG_IDLE	0	0	0	0	0.025012	0.020493	0.038437
A	TOG_RES	0.039574	0.112426	0.047157	0.072096	0.001991	0.000809	0.000791
A	TOG_RUN	0.021722	0.062692	0.028537	0.061239	0.087991	0.056483	0.058713
A	TOG_RUN	0.041353	0.180715	0.063322	0.090497	0.317993	0.095144	0.023102
A	TOG_STRI	0.091375	0.235269	0.106966	0.236866	0.321859	0.146223	0.45954
S	CH4_IDLE	0	0	0	0	0.006012	0.004341	0.01534
S	CH4_RUNI	0.00628	0.018101	0.008345	0.015899	0.014292	0.005098	0.005794
S	CH4_STRE	0.005495	0.014073	0.006444	0.014216	0.020974	0.009554	0.051831
S	CO_IDLEX	0	0	0	0	0.155155	0.1331	0.280091
S	CO_RUNE	0.775608	1.991055	0.985746	1.688322	0.959687	0.395956	0.427986
S	CO_STRE	1.085598	2.618243	1.273982	2.386178	2.898047	1.440531	6.499835
S	CO2_NBIC	0	0	0	0	8.907841	13.55329	138.7679
S	CO2_NBIC	298.9373	366.7329	413.1703	551.8535	612.9266	625.7343	1155.794
S	CO2_NBIC	59.19247	71.32174	80.67628	106.3507	34.52236	28.88744	65.07594
S	NOX_IDLE	0	0	0	0	0.069981	0.096715	0.531759
S	NOX_RUN	0.051041	0.151326	0.079033	0.149247	0.983769	0.715055	1.157056
S	NOX_STRI	0.073858	0.164823	0.113149	0.232538	1.025348	0.583039	9.781589

S	PM10_IDLI	0	0	0	0	0.000816	0.001176	0.000241
S	PM10_PMI	0.03675	0.03675	0.03675	0.03675	0.07644	0.08918	0.13034
S	PM10_PMT	0.008	0.008	0.008	0.008	0.009978	0.010572	0.012
S	PM10_RUN	0.002229	0.003739	0.002162	0.002428	0.009402	0.009305	0.005641
S	PM10_STF	0.002301	0.003599	0.002349	0.002583	0.001085	0.000506	0.000891
S	PM25_IDLI	0	0	0	0	0.000781	0.001125	0.00023
S	PM25_PMI	0.01575	0.01575	0.01575	0.01575	0.03276	0.03822	0.05586
S	PM25_PMT	0.002	0.002	0.002	0.002	0.002495	0.002643	0.003
S	PM25_RUN	0.002056	0.003444	0.001988	0.00224	0.008967	0.008887	0.005392
S	PM25_STF	0.002116	0.00331	0.00216	0.002378	0.000998	0.000465	0.000819
S	ROG_DIUF	0.067072	0.212874	0.074017	0.109136	0.004968	0.001888	0.001858
S	ROG_HTS	0.114407	0.296504	0.112072	0.16637	0.111136	0.044332	0.051085
S	ROG_IDLE	0	0	0	0	0.017889	0.015135	0.02572
S	ROG_RES	0.05589	0.159809	0.066314	0.101367	0.002812	0.001134	0.001124
S	ROG_RUN	0.015874	0.045294	0.020749	0.045592	0.069663	0.047578	0.049099
S	ROG_RUN	0.039077	0.167634	0.058865	0.08458	0.308166	0.092007	0.022274
S	ROG_STR	0.074103	0.189795	0.086913	0.191811	0.282858	0.128851	0.403083
S	SO2_IDLE	0	0	0	0	0.00009	0.000133	0.001336
S	SO2_RUNI	0.002996	0.003694	0.00414	0.005533	0.006027	0.006101	0.0111
S	SO2_STRE	0.00061	0.000759	0.000828	0.001105	0.000399	0.000315	0.000765
S	TOG_DIUF	0.067072	0.212874	0.074017	0.109136	0.004968	0.001888	0.001858
S	TOG_HTSI	0.114407	0.296504	0.112072	0.16637	0.111136	0.044332	0.051085
S	TOG_IDLE	0	0	0	0	0.025012	0.020493	0.036143
S	TOG_RES	0.05589	0.159809	0.066314	0.101367	0.002812	0.001134	0.001124
S	TOG_RUN	0.023037	0.065886	0.030237	0.063807	0.089223	0.056754	0.059046
S	TOG_RUN	0.039077	0.167634	0.058865	0.08458	0.308166	0.092007	0.022274
S	TOG_STRI	0.081132	0.207795	0.095157	0.209951	0.309694	0.141076	0.441325
W	CH4_IDLE	0	0	0	0	0.006012	0.004341	0.017687
W	CH4_RUNI	0.005795	0.016912	0.007719	0.014813	0.013863	0.005003	0.005676
W	CH4_STRE	0.006334	0.016318	0.007415	0.016415	0.02195	0.009973	0.054438
W	CO_IDLEX	0	0	0	0	0.155155	0.1331	0.53219
W	CO_RUNE	0.680068	1.78806	0.869647	1.517433	0.938388	0.390845	0.420917
W	CO_STRE	1.311774	3.189308	1.538253	2.876882	3.061871	1.519471	6.91081
W	CO2_NBIC	0	0	0	0	8.907841	13.55329	120.305
W	CO2_NBIC	280.7615	345.8082	388.8994	520.1447	612.9266	625.7343	1155.794
W	CO2_NBIC	59.19247	71.32174	80.67628	106.3507	34.52236	28.88744	65.07594
W	NOX_IDLE	0	0	0	0	0.069981	0.096715	0.492285
W	NOX_RUN	0.056225	0.168467	0.087358	0.165161	1.030964	0.745256	1.206761
W	NOX_STRI	0.081038	0.180824	0.124158	0.255063	1.080199	0.611593	9.834768
W	PM10_IDLI	0	0	0	0	0.000816	0.001176	0.000348
W	PM10_PMI	0.03675	0.03675	0.03675	0.03675	0.07644	0.08918	0.13034
W	PM10_PMT	0.008	0.008	0.008	0.008	0.009978	0.010572	0.012
W	PM10_RUN	0.002229	0.003739	0.002162	0.002428	0.009402	0.009305	0.005641
W	PM10_STF	0.002301	0.003599	0.002349	0.002583	0.001085	0.000506	0.000891
W	PM25_IDLI	0	0	0	0	0.000781	0.001125	0.000333
W	PM25_PMI	0.01575	0.01575	0.01575	0.01575	0.03276	0.03822	0.05586
W	PM25_PMT	0.002	0.002	0.002	0.002	0.002495	0.002643	0.003
W	PM25_RUN	0.002056	0.003444	0.001988	0.00224	0.008967	0.008887	0.005392
W	PM25_STF	0.002116	0.00331	0.00216	0.002378	0.000998	0.000465	0.000819
W	ROG_DIUF	0.04215	0.137379	0.045793	0.066854	0.003502	0.001305	0.00129
W	ROG_HTS	0.119811	0.321902	0.117253	0.172917	0.124353	0.048447	0.053647
W	ROG_IDLE	0	0	0	0	0.017889	0.015135	0.029627

W	ROG_RES	0.037783	0.107613	0.044991	0.068881	0.001965	0.000788	0.000775
W	ROG_RUN	0.014673	0.042348	0.019198	0.043302	0.068602	0.047343	0.048807
W	ROG_RUN	0.046904	0.213075	0.074247	0.105175	0.344543	0.103469	0.025358
W	ROG_STR	0.085422	0.220077	0.100001	0.221498	0.296019	0.134493	0.423363
W	SO2_IDLE	0	0	0	0	0.00009	0.000133	0.001163
W	SO2_RUN	0.002813	0.003481	0.003896	0.005213	0.006026	0.006101	0.0111
W	SO2_STRE	0.000614	0.000769	0.000833	0.001114	0.000402	0.000317	0.000772
W	TOG_DIUF	0.04215	0.137379	0.045793	0.066854	0.003502	0.001305	0.00129
W	TOG_HTS	0.119811	0.321902	0.117253	0.172917	0.124353	0.048447	0.053647
W	TOG_IDLE	0	0	0	0	0.025012	0.020493	0.041642
W	TOG_RES	0.037783	0.107613	0.044991	0.068881	0.001965	0.000788	0.000775
W	TOG_RUN	0.021285	0.061589	0.027975	0.060292	0.087674	0.056412	0.058621
W	TOG_RUN	0.046904	0.213075	0.074247	0.105175	0.344543	0.103469	0.025358
W	TOG_STR	0.093524	0.240948	0.109487	0.242444	0.324104	0.147253	0.463529

HHD	OBUS	UBUS	MCY	SBUS	MH
0.651197	0.012762	0	0	0.863641	0
0.09494	0.008872	2.778735	0.534506	0.013361	0.036099
0.086016	0.029109	0.049776	0.151217	0.067768	0.026881
2.605315	0.286349	0	0	8.042127	0
1.159767	0.60125	11.78693	19.19611	0.785336	2.76505
3.360716	5.752575	8.900619	9.643796	7.53067	6.407564
4729.347	111.8008	0	0	1136.989	0
1660.443	1266.647	1987.477	188.4697	1088.609	1135.334
10.55437	68.32333	92.57664	44.88397	53.57132	61.01176
21.62864	0.583303	0	0	9.908456	0
4.197531	1.731991	10.67848	1.13352	4.548615	1.168972
19.56714	2.632791	15.65686	0.30998	12.41706	0.854997
0.016761	0.000204	0	0	0.010706	0
0.060887	0.13034	0.624107	0.01176	0.7448	0.13034
0.035344	0.012	0.012	0.004	0.010708	0.012794
0.01786	0.008702	0.139886	0.002383	0.02541	0.019794
0.000088	0.000789	0.001032	0.003957	0.00078	0.001219
0.016036	0.000195	0	0	0.010243	0
0.026094	0.05586	0.267474	0.00504	0.3192	0.05586
0.008836	0.003	0.003	0.001	0.002677	0.003199
0.017087	0.00831	0.133803	0.002228	0.024296	0.018885
0.000081	0.000725	0.000949	0.003729	0.000717	0.001121
0.000111	0.001471	0.00416	1.066547	0.003387	1.066757
0.004872	0.017284	0.069674	0.646316	0.029255	0.075311
0.649806	0.041181	0	0	0.96895	0
0.000083	0.000778	0.002358	0.653553	0.001716	0.449872
0.152693	0.067023	0.903175	2.613057	0.111045	0.102494
0.000432	0.038915	0.022165	0.615178	0.014506	0.020596
0.087975	0.360714	0.671285	2.061965	0.395249	0.362517
0.043688	0.001079	0	0	0.011122	0
0.015296	0.012315	0.009929	0.002278	0.010489	0.011293
0.000161	0.000784	0.001086	0.000667	0.000666	0.000722
0.000111	0.001471	0.00416	1.066547	0.003387	1.066757
0.004872	0.017284	0.069674	0.646316	0.029255	0.075311
0.759127	0.055684	0	0	1.397717	0
0.000083	0.000778	0.002358	0.653553	0.001716	0.449872
0.262142	0.081466	3.787189	3.245722	0.133774	0.14479
0.000432	0.038915	0.022165	0.615178	0.014506	0.020596
0.096322	0.394936	0.734972	2.244365	0.432748	0.39691
0.61396	0.012722	0	0	0.863329	0
0.094977	0.009025	2.782295	0.523473	0.013578	0.037504
0.082572	0.027923	0.045525	0.134696	0.060245	0.025684
1.896314	0.270132	0	0	7.919084	0
1.16632	0.61024	11.83939	18.4806	0.797379	2.850069
3.189535	5.434483	7.707898	8.818072	6.109907	6.021578
5008.693	117.4477	0	0	1188.841	0
1660.443	1266.647	1987.477	188.4697	1088.609	1135.334
10.55437	68.32333	92.57664	44.88397	53.57132	61.01176
22.31968	0.601992	0	0	10.2247	0
3.970065	1.628864	10.06631	0.988976	4.287969	1.072765
19.55521	2.591449	15.60696	0.293553	12.38712	0.81639

0.014385	0.000172	0	0	0.009025	0
0.060887	0.13034	0.624107	0.01176	0.7448	0.13034
0.035344	0.012	0.012	0.004	0.010708	0.012794
0.01786	0.008702	0.139886	0.002383	0.02541	0.019794
0.000088	0.000789	0.001032	0.003957	0.00078	0.001219
0.013762	0.000164	0	0	0.008635	0
0.026094	0.05586	0.267474	0.00504	0.3192	0.05586
0.008836	0.003	0.003	0.001	0.002677	0.003199
0.017087	0.00831	0.133803	0.002228	0.024296	0.018885
0.000081	0.000725	0.000949	0.003729	0.000717	0.001121
0.00017	0.002155	0.005926	1.733145	0.004994	1.578317
0.004998	0.01773	0.070758	0.709345	0.02993	0.07633
0.61282	0.04039	0	0	0.966046	0
0.000121	0.001101	0.003245	1.083908	0.002454	0.645406
0.152785	0.067402	0.911984	2.54911	0.111582	0.105969
0.000421	0.037867	0.020518	0.577812	0.012931	0.02016
0.084453	0.346013	0.613963	1.836553	0.351374	0.34638
0.046268	0.001133	0	0	0.011617	0
0.015296	0.012315	0.00993	0.002264	0.010489	0.011294
0.000158	0.000779	0.001065	0.000647	0.000642	0.000715
0.00017	0.002155	0.005926	1.733145	0.004994	1.578317
0.004998	0.01773	0.070758	0.709345	0.02993	0.07633
0.715905	0.054783	0	0	1.394412	0
0.000121	0.001101	0.003245	1.083908	0.002454	0.645406
0.262276	0.082019	3.800043	3.168519	0.134558	0.149861
0.000421	0.037867	0.020518	0.577812	0.012931	0.02016
0.092465	0.378841	0.672212	1.999088	0.38471	0.379242
0.702618	0.012817	0	0	0.864072	0
0.09493	0.008831	2.777857	0.536521	0.013299	0.035727
0.086725	0.02938	0.050649	0.154332	0.069395	0.027089
3.584411	0.308745	0	0	8.212044	0
1.158018	0.598883	11.77415	19.2991	0.781918	2.743029
3.390973	5.814096	9.114083	9.782006	7.779377	6.460403
4343.583	104.0028	0	0	1065.384	0
1660.443	1266.647	1987.477	188.4697	1088.609	1135.334
10.55437	68.32333	92.57664	44.88397	53.57132	61.01176
20.67434	0.557494	0	0	9.471745	0
4.12535	1.700146	10.4743	1.106444	4.470259	1.145442
19.56981	2.642245	15.66808	0.313502	12.42544	0.862933
0.020042	0.000248	0	0	0.013027	0
0.060887	0.13034	0.624107	0.01176	0.7448	0.13034
0.035344	0.012	0.012	0.004	0.010708	0.012794
0.01786	0.008702	0.139886	0.002383	0.02541	0.019794
0.000088	0.000789	0.001032	0.003957	0.00078	0.001219
0.019175	0.000237	0	0	0.012464	0
0.026094	0.05586	0.267474	0.00504	0.3192	0.05586
0.008836	0.003	0.003	0.001	0.002677	0.003199
0.017087	0.00831	0.133803	0.002228	0.024296	0.018885
0.000081	0.000725	0.000949	0.003729	0.000717	0.001121
0.00011	0.001518	0.004746	1.163123	0.003505	1.212111
0.005238	0.018334	0.086222	0.836454	0.030957	0.094453
0.700882	0.042274	0	0	0.97296	0

0.000081	0.000758	0.002484	0.624422	0.001651	0.463695
0.152668	0.066921	0.901001	2.624609	0.110892	0.101571
0.000468	0.041781	0.026048	0.706413	0.017988	0.021728
0.0887	0.364066	0.683057	2.10445	0.404743	0.36532
0.040125	0.001004	0	0	0.010439	0
0.015296	0.012315	0.009929	0.00228	0.010489	0.011293
0.000161	0.000785	0.00109	0.000671	0.00067	0.000722
0.00011	0.001518	0.004746	1.163123	0.003505	1.212111
0.005238	0.018334	0.086222	0.836454	0.030957	0.094453
0.818814	0.056928	0	0	1.402282	0
0.000081	0.000758	0.002484	0.624422	0.001651	0.463695
0.262105	0.081318	3.784017	3.259692	0.133551	0.143444
0.000468	0.041781	0.026048	0.706413	0.017988	0.021728
0.097115	0.398606	0.747861	2.290602	0.443143	0.39998

RoadPerce	RoadSiltLo	MaterialSilt	MaterialMo	MobileAver	MeanVehic	CARB_PM_VMT
100	0.1	4.3	0.5	2.4	40	0

tblWoodstoves

Woodstove	NumberCo	NumberCa	NumberNo	NumberPe	Woodstove	WoodstoveWoodMass

tblFireplaces

FireplacesI	NumberWc	NumberGa	NumberPrc	NumberNo	FireplaceH	FireplaceD	FireplaceWoodMass

ROG_EF	ROG_EF_I	ROG_EF_PesticidesFertilizers
1.98E-05	3.54E-07	5.15E-08

Area_EF_F	Area_Resi	Area_EF_F	Area_Resi	Area_EF_N	Area_Nonr	Area_EF_N	Area_Nonr	Reapplicati
50	0	50	0	100	229500	100	76500	10

Area_EF_F	Area_Parking
100	6384

NumberSn	NumberSummerDays
0	250

tblEnergyUse

EnergyUse	T24E	NT24E	LightingEle	T24NG	NT24NG
General Lig	2.25	5.75	3.1	13.65	4.45
Parking Lo	0	0	0.35	0	0

WaterLand	WaterLand	IndoorWat	OutdoorWa	ElectricityIr	ElectricityIr	ElectricityIr	ElectricityIr	SepticTank
General Lig	1000sqft	35381250	0	9727	111	1272	1911	10.33
Parking Lo	Space	0	0	9727	111	1272	1911	10.33

AerobicPer	Anaerobica	AnaDigest(	AnaDigestCogen	CombDigestGasPercent
87.46	2.21	100	0	
87.46	2.21	100	0	

SolidWaste	SolidWaste	SolidWaste	LandfillNoC	LandfillCap	LandfillCaptureGasEnergyRecovery
General Lig	1000sqft	189.72	6	94	0
Parking Lo	Space	0	6	94	0

Vegetation	Vegetation	AcresBegir	AcresEnd	CO2peracre

BroadSpec NumberOfI CO2perTree

tblConstEquipMitigation

ConstMitig	FuelType	Tier	NumberOfI	TotalNumb	DPF	OxidationCatalyst
Air Compre	Diesel	No Change	0	1	No Change	0
Cranes	Diesel	No Change	0	2	No Change	0
Crawler Tra	Diesel	No Change	0	2	No Change	0
Excavators	Diesel	No Change	0	2	No Change	0
Forklifts	Diesel	No Change	0	3	No Change	0
Generator	Diesel	No Change	0	1	No Change	0
Graders	Diesel	No Change	0	3	No Change	0
Pavers	Diesel	No Change	0	2	No Change	0
Paving Equ	Diesel	No Change	0	1	No Change	0
Rollers	Diesel	No Change	0	2	No Change	0
Rubber Tir	Diesel	No Change	0	2	No Change	0
Rubber Tir	Diesel	No Change	0	1	No Change	0
Scrapers	Diesel	No Change	0	3	No Change	0
Tractors/Lo	Diesel	No Change	0	4	No Change	0
Welders	Diesel	No Change	0	1	No Change	0

SoilStabiliz	SoilStabiliz	SoilStabiliz	ReplaceGr	ReplaceGr	ReplaceGr	WaterExpo	WaterExpo	WaterExpo
0	0	0	1	5	5	1	3	61

WaterExpo	WaterUnpa	WaterUnpa	WaterUnpa	WaterUnpa	CleanPavedRoadPercentReduction
61	1	1	12	15	26

ProjectSett	IncreaseDe	IncreaseDe	IncreaseDe	IncreaseDi	ImproveWa	ImproveWa	ImproveDe	ImproveDe

IncreaseTr	IncreaseTr	IntegrateBe	IntegrateBe	ImprovePe	ImprovePe	ProvideTra	ProvideTra	ProvideTra

Implementl	LimitParkin	LimitParkin	UnbundleP	UnbundleP	OnStreetM	OnStreetM	ProvideBR	ProvideBR

ExpandTra ExpandTra IncreaseTr IncreaseTr IncreaseTransitFrequencyHeadwaysPercentReduction

Implement	Implement	Implement	TransitSub	TransitSub	TransitSub	ImplementI	ImplementI	Workplace
	0			0			0	0

Workplace	Workplace	Encourage	Encourage	Encourage	Encourage	MarketCon	MarketCon	EmployeeV
		0				0		0

Employee\	Employee\	ProvideRid	ProvideRid	Implement	ImplementSchoolBusProgram	PercentFamilyU
	2	0		0		

Jsing

Landscape	Landscape	Landscape	Landscape	Landscape	Landscape	UseLowVC	UseLowVC	UseLowVC
0	0	0	0	0	0	0	50	0

UseLowVC	UseLowVC	UseLowVC	UseLowVC	UseLowVC	HearthOnly	NoHearthC	UseLowVC	UseLowVC
50	0	100	0	100	0	1	0	0

UseLowVOCPaintParkingValue
100

ExceedTitl	ExceedTitl	InstallHighl	InstallHighl	OnSiteRen	KwhGener	KwhGener	PercentOfE	PercentOfE

ElectricityUseGenerated

tblApplianceMitigation

ApplianceT	ApplianceL	PercentImprovement
ClothWasher		30
DishWasher		15
Fan		50
Refrigerator		15

ApplyWate	ApplyWate	ApplyWate	UseReclair	PercentOu	PercentInd	UseGreyW	PercentOu	PercentInd
0			0			0		

tblWaterMitigation

InstallLowF	PercentRe	InstallLowF	PercentRe	InstallLowF	PercentRe	InstallLowF	PercentRe	TurfReduct
0	32	0	18	0	20	0	20	0

TurfReduct	TurfReduct	UseWaterE	UseWaterE	WaterEfficie	MAWA	ETWU
		0	6.1	0		

tblWasteMitigation

InstituteRe	InstituteRecyclingAndCompostingServicesWastePercentReduction
1	50

tblOperationalOffRoadEquipment

OperOffRo	OperOffRo	OperHours	OperDaysF	OperHorse	OperLoadF	OperFuelType

FleetMixLa	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD
General Lig	0.547192	0.045177	0.202743	0.12151	0.016147	0.006143	0.019743	0.029945
Parking Lo	0.547192	0.045177	0.202743	0.12151	0.016147	0.006143	0.019743	0.029945

OBUS	UBUS	MCY	SBUS	MH
0.002479	0.00227	0.005078	0.000682	0.000891
0.002479	0.00227	0.005078	0.000682	0.000891

tblStationaryGeneratorsPumpsUse

Generators	NumberOfI	Generators	HorsePowe	Load_Facto	HoursPerD	HoursPerY	GeneratorsPumpsEqui

ipmentDescription

tblStationaryBoilersUse

BoilerEquip	NumberOfB	BoilerFuelT	BoilerRatin	DailyHeatIr	AnnualHea	BoilerEquipmentDescription

tblStationaryUserDefined

UserDefine	UserDefine	TOG_lb_da	TOG_tpy	ROG_lb_da	ROG_tpy	CO_lb_day	CO_tpy	NOX_lb_da

NOX_tpy	SO2_lb_da	SO2_tpy	PM10_lb_c	PM10_tpy	PM2_5_lb_	PM2_5_tpy	CO2_lb_da	CO2_tpy

CH4_lb_da	CH4_tpy

Generators	TOG_EF	TOG_EF_U	ROG_EF	ROG_EF_U	CO_EF	CO_EF_UC	NOX_EF	NOX_EF_U

SO2_EF	SO2_EF_U	PM10_EF	PM10_EF_	PM2_5_EF	PM2_5_EF	CO2_EF	CO2_EF_U	CH4_EF

CH4_EF_UOM

BoilerEquip	TOG_EF	TOG_EF_U	ROG_EF	ROG_EF_U	CO_EF	CO_EF_UC	NOX_EF	NOX_EF_U

SO2_EF	SO2_EF_U	PM10_EF	PM10_EF_	PM2_5_EF	PM2_5_EF	CO2_EF	CO2_EF_U	CH4_EF

CH4_EF_UOM

SubModule	PhaseNam	Season	Remarks
1			
3			Per GAA Architects Sheet No. A1.0, total building area for nine light ir
4			Per construction questionnaire.
5	Architectural Coating		
5	Building Construction		Per construction questionnaire.
5	Grading		Per construction questionnaire. Grading Equipment limited to 4 hours
5	Paving		Per construction questionnaire.
6			6,278 trips hauling
9			41,672 import of dirt and 8,551 export of dirt
12			Per Traffic Impact Analysis.
25			Per SCAQMD standards and regulations.
29			
30			
33			

ndustrial buildings is 153,000 square feet and parking provided is 266 spaces.

s per day.

Appendix A:
Air Quality, Greenhouse Gas and Energy Calculations

Table 7

Construction-Related Criteria Pollutant Emissions Prior to Mitigation

Activity	Pollutant Emissions (pounds/day)					
	ROG	Nox	CO	SO2	PM10	PM2.5
Grading Unmitigated						
On-Site	6.63	77.84	37.98	0.09	8.18	4.96
Off-Site	0.82	20.91	6.23	0.06	1.37	0.43
Total	**7.45**	**98.75**	**44.21**	**0.15**	**9.55**	**5.39**
Grading Mitigated with Tier 4 Final Off-Road Equipment						
On-Site	1.19	6.04	41.19	0.09	5.23	2.25
Off-Site	0.82	20.91	6.23	0.06	1.37	0.43
Total	**2.01**	**26.95**	**47.42**	**0.15**	**6.60**	**2.68**
Grading Mitigated with all Off-Road Equipment operating for 4 hours per day or less						
On-Site	4.42	51.89	25.32	0.06	4.35	2.86
Off-Site	0.60	13.98	4.62	0.04	1.02	0.32
Total	**5.02**	**65.87**	**29.94**	**0.10**	**5.37**	**3.18**
Grading - Mitigated with 2010 or newer haul trucks						
On-Site	6.63	77.84	37.98	0.09	8.18	4.96
Off-Site from CalEEMod	0.18	0.13	1.53	0.00	0.31	0.09
Off-Site Haul Trucks (EMF	0.19	9.60	0.93	0.04	0.38	0.18
Total	**7.00**	**87.57**	**40.44**	**0.13**	**8.87**	**5.23**

Table 9

Local Construction Emissions at the School to the Southeast[1]

Phase	On-Site Pollutant Emissions (pounds/day)			
	NOx	CO	PM10	PM2.5
Grading Unmitigated	77.84	37.98	8.18	4.96
Grading Mitigated with Tier 4 Final Off-Road Equipment	6.04	41.19	5.23	2.25
Grading Mitigated with all Off-Road Equipment operating for 4 ho	51.89	25.32	4.35	2.86
Grading - Mitigated with 2010 or newer haul trucks	77.84	37.98	8.18	4.96
SCAQMD Threshold for 25 meters (82 feet)[2]	**123**	**1,530**	**14**	**8**
Exceeds Threshold?	no	no	**no**	no

[1] Source: Calculated from CalEEMod and SCAQMD's Mass Rate Look-up Tables for five acres in Southwest San Bernardino Valley.

[2] The estimated distance from the proposed grading activities to the existing homes north of the project site is 213 meters or 700 feet.

EMFAC2017 (v1.0.2) Emission Rates
Region Type: Sub-Area
Region: Los Angeles (SC)
Calendar Year: 2020
Season: Annual
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for VMT, trips/day for Trips, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HT

Region	Calendar Y	Vehicle Cat	Model Yea	Speed	Fuel	Population	VMT	Trips
Los Angele	2020	HHDT	2010	Aggregatec	DSL	2414.457	270680.3	23026.56
Los Angele	2020	HHDT	2011	Aggregatec	DSL	2937.943	326348.9	27801.24
Los Angele	2020	HHDT	2012	Aggregatec	DSL	7462.78	600766.1	71751.02
Los Angele	2020	HHDT	2013	Aggregatec	DSL	3791.458	468589	39464.97
Los Angele	2020	HHDT	2014	Aggregatec	DSL	3844.881	531112.8	41971.94
Los Angele	2020	HHDT	2015	Aggregatec	DSL	4432.769	703904.6	51363.32
Los Angele	2020	HHDT	2016	Aggregatec	DSL	6069.926	1077660	72577.64
Los Angele	2020	HHDT	2017	Aggregatec	DSL	2693.838	369705	24496.21
Los Angele	2020	HHDT	2018	Aggregatec	DSL	2005.235	350416.4	21435.94
Los Angele	2020	HHDT	2019	Aggregatec	DSL	2032.739	360133.4	21548.36
Los Angele	2020	HHDT	2020	Aggregatec	DSL	1378.287	234078.6	14108.56

Average

SK and RUNLS, g/vehicle/day for IDLEX, RESTL and DIURN

ROG_RUNE	ROG_IDLEX	ROG_STRE	ROG_HOTS	ROG_RUNL	ROG_RESTI	ROG_DIURI	TOG_RUNE	TOG_IDLEX
0.38673	3.905112	0	0	0	0	0	0.440262	4.445672
0.132597	3.818588	0	0	0	0	0	0.150952	4.347172
0.023163	3.283722	0	0	0	0	0	0.02637	3.738267
0.022388	4.524914	0	0	0	0	0	0.025487	5.15127
0.018601	5.180924	0	0	0	0	0	0.021176	5.898087
0.017057	6.125237	0	0	0	0	0	0.019418	6.973116
0.016242	7.015815	0	0	0	0	0	0.018491	7.986972
0.015387	5.061957	0	0	0	0	0	0.017517	5.762653
0.014629	6.247675	0	0	0	0	0	0.016655	7.112502
0.013713	6.310084	0	0	0	0	0	0.015611	7.18355
0.012781	5.826958	0	0	0	0	0	0.01455	6.633548

0.061208

TOG_STREX	TOG_HOTS	TOG_RUNL	TOG_RESTI	TOG_DIURI	CO_RUNEX	CO_IDLEX	CO_STREX	NOx_RUNE
0	0	0	0	0	1.034625	21.8662	0	8.328735
0	0	0	0	0	0.482716	48.88569	0	4.906739
0	0	0	0	0	0.267454	48.51968	0	3.833634
0	0	0	0	0	0.258295	66.85931	0	3.601134
0	0	0	0	0	0.21159	76.55239	0	2.480951
0	0	0	0	0	0.190991	90.5054	0	2.128406
0	0	0	0	0	0.181241	103.6644	0	1.983241
0	0	0	0	0	0.17385	74.79456	0	1.806097
0	0	0	0	0	0.165504	92.31452	0	1.664838
0	0	0	0	0	0.155105	93.23666	0	1.496307
0	0	0	0	0	0.144874	86.09808	0	1.323647
					0.296931			3.050339

NOx_IDLEX	NOx_STREX	CO2_RUNE	CO2_IDLEX	CO2_STREX	CH4_RUNE	CH4_IDLEX	CH4_STREX	PM10_RUNEX
70.11591	0.306672	1847.037	12578.62	0	0.017963	0.181382	0	0.062089093
51.28253	1.789409	1726.733	11100.92	0	0.006159	0.177364	0	0.048172203
38.80353	2.722866	1661.949	9263.474	0	0.001076	0.15252	0	0.026232043
53.47062	2.331946	1643.539	12764.91	0	0.00104	0.210171	0	0.024924249
61.22265	2.411748	1355.44	12720.84	0	0.000864	0.24064	0	0.018868948
72.38154	2.391678	1323.683	15039.43	0	0.000792	0.284501	0	0.016761295
82.90545	2.40564	1320.984	17226.09	0	0.000754	0.325866	0	0.015273833
59.81683	2.661134	1293.45	12071.18	0	0.000715	0.235115	0	0.012881976
73.82838	2.466669	1262.794	14898.74	0	0.00068	0.290188	0	0.011296856
74.56586	2.479813	1262.358	15047.56	0	0.000637	0.293087	0	0.00945773
68.85679	2.521186	1265.123	13895.46	0	0.000594	0.270647	0	0.007503974
		1451.19			0.002843			0.023042018

PM10_IDLE	PM10_STR	PM10_PMTW	PM10_PMBW	PM2_5_RUNEX	PM2_5_IDLEX	PM2_5_STI
0.016878	0	0.035792462	0.061384073	0.059403146	0.016148266	0
0.016306	0	0.035695779	0.06121826	0.046088295	0.015600325	0
0.013975	0	0.035357011	0.060637275	0.025097257	0.013370393	0
0.019257	0	0.035619265	0.061087039	0.023846037	0.018424179	0
0.022049	0	0.035628954	0.061103656	0.018052686	0.021095266	0
0.026068	0	0.035725578	0.061269366	0.016036209	0.024940246	0
0.029858	0	0.03574097	0.061295764	0.014613094	0.02856643	0
0.021543	0	0.035690323	0.061208904	0.012324708	0.020610867	0
0.026589	0	0.035671567	0.061176738	0.010808159	0.025438777	0
0.026855	0	0.035671861	0.061177242	0.009048593	0.025692887	0
0.024799	0	0.035615839	0.061081163	0.007179356	0.023725735	0
		0.035655419	0.061149044	0.022045231		

PM2_5_PMTW	PM2_5_PMBW	SOx_RUNEX	SOx_IDLEX	SOx_STREX	N2O_RUNE	N2O_IDLEX	N2O_STREX
0.008948116	0.02630746	0.017449886	0.118837	0	0.290328	1.977184	0
0.008923945	0.026236397	0.016313315	0.104876	0	0.271418	1.74491	0
0.008839253	0.025987403	0.015701266	0.087517	0	0.261235	1.456089	0
0.008904816	0.02618016	0.015527345	0.120597	0	0.258342	2.006467	0
0.008907238	0.026187281	0.012805528	0.12018	0	0.213056	1.999538	0
0.008931394	0.0262583	0.012505505	0.142085	0	0.208065	2.363989	0
0.008935243	0.026269613	0.012480002	0.162744	0	0.20764	2.707701	0
0.008922581	0.026232387	0.012219871	0.114042	0	0.203312	1.897421	0
0.008917892	0.026218602	0.011930249	0.140756	0	0.198494	2.341874	0
0.008917965	0.026218818	0.011926132	0.142162	0	0.198425	2.365268	0
0.00890396	0.026177641	0.011952254	0.131277	0	0.19886	2.184173	0
0.008913855	0.026206733	0.013710123					

‹

2020 Walnut Industrial Park

Los Angeles-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	153.00	1000sqft	3.51	153,000.00	0
Parking Lot	266.00	Space	2.39	106,400.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	9			**Operational Year**	2021
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Per GAA Architects Sheet No. A1.0, total building area for nine light industrial buildings is 153,000 square feet and parking provided is 266 spaces.

2.0 Emissions Summary

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	3.4678	3.9000e-004	0.0430	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004		0.0917	0.0917	2.4000e-004		0.0978
Energy	0.0818	0.7438	0.6248	4.4600e-003		0.0565	0.0565		0.0565	0.0565		892.6027	892.6027	0.0171	0.0164	897.9070
Mobile	5.7113	29.6320	83.8253	0.2987	25.1259	0.2579	25.3838	6.7244	0.2408	6.9652		30,380.8644	30,380.8644	1.6085		30,421.0778
Total	**9.2609**	**30.3762**	**84.4931**	**0.3032**	**25.1259**	**0.3145**	**25.4405**	**6.7244**	**0.2975**	**7.0219**		**31,273.5589**	**31,273.5589**	**1.6259**	**0.0164**	**31,319.0827**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	3.4678	3.9000e-004	0.0430	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004		0.0917	0.0917	2.4000e-004		0.0978
Energy	0.0818	0.7438	0.6248	4.4600e-003		0.0565	0.0565		0.0565	0.0565		892.6027	892.6027	0.0171	0.0164	897.9070
Mobile	5.7113	29.6320	83.8253	0.2987	25.1259	0.2579	25.3838	6.7244	0.2408	6.9652		30,380.8644	30,380.8644	1.6085		30,421.0778
Total	**9.2609**	**30.3762**	**84.4931**	**0.3032**	**25.1259**	**0.3145**	**25.4405**	**6.7244**	**0.2975**	**7.0219**		**31,273.5589**	**31,273.5589**	**1.6259**	**0.0164**	**31,319.0827**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	5.7113	29.6320	83.8253	0.2987	25.1259	0.2579	25.3838	6.7244	0.2408	6.9652		30,380.8644	30,380.8644	1.6085		30,421.0778
Unmitigated	5.7113	29.6320	83.8253	0.2987	25.1259	0.2579	25.3838	6.7244	0.2408	6.9652		30,380.8644	30,380.8644	1.6085		30,421.0778

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	2,668.32	2,668.32	2668.32	11,816,061	11,816,061
Parking Lot	0.00	0.00	0.00		
Total	2,668.32	2,668.32	2,668.32	11,816,061	11,816,061

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Light Industry	16.60	8.40	6.90	59.00	28.00	13.00	92	5	3
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.547192	0.045177	0.202743	0.121510	0.016147	0.006143	0.019743	0.029945	0.002479	0.002270	0.005078	0.000682	0.000891
Parking Lot	0.547192	0.045177	0.202743	0.121510	0.016147	0.006143	0.019743	0.029945	0.002479	0.002270	0.005078	0.000682	0.000891

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0818	0.7438	0.6248	4.4600e-003		0.0565	0.0565		0.0565	0.0565		892.6027	892.6027	0.0171	0.0164	897.9070
NaturalGas Unmitigated	0.0818	0.7438	0.6248	4.4600e-003		0.0565	0.0565		0.0565	0.0565		892.6027	892.6027	0.0171	0.0164	897.9070

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Light Industry	7587.12	0.0818	0.7438	0.6248	4.4600e-003		0.0565	0.0565		0.0565	0.0565		892.6027	892.6027	0.0171	0.0164	897.9070
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0818**	**0.7438**	**0.6248**	**4.4600e-003**		**0.0565**	**0.0565**		**0.0565**	**0.0565**		**892.6027**	**892.6027**	**0.0171**	**0.0164**	**897.9070**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Light Industry	7.58712	0.0818	0.7438	0.6248	4.4600e-003		0.0565	0.0565		0.0565	0.0565		892.6027	892.6027	0.0171	0.0164	897.9070
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0818**	**0.7438**	**0.6248**	**4.4600e-003**		**0.0565**	**0.0565**		**0.0565**	**0.0565**		**892.6027**	**892.6027**	**0.0171**	**0.0164**	**897.9070**

6.0 Area Detail

6.1 Mitigation Measures Area

No Hearths Installed

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	3.4678	3.9000e-004	0.0430	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004		0.0917	0.0917	2.4000e-004		0.0978
Unmitigated	3.4678	3.9000e-004	0.0430	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004		0.0917	0.0917	2.4000e-004		0.0978

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.3967					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.0671					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.0100e-003	3.9000e-004	0.0430	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004		0.0917	0.0917	2.4000e-004		0.0978
Total	**3.4678**	**3.9000e-004**	**0.0430**	**0.0000**		**1.5000e-004**	**1.5000e-004**		**1.5000e-004**	**1.5000e-004**		**0.0917**	**0.0917**	**2.4000e-004**		**0.0978**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.3967					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.0671					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.0100e-003	3.9000e-004	0.0430	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004		0.0917	0.0917	2.4000e-004		0.0978
Total	**3.4678**	**3.9000e-004**	**0.0430**	**0.0000**		**1.5000e-004**	**1.5000e-004**		**1.5000e-004**	**1.5000e-004**		**0.0917**	**0.0917**	**2.4000e-004**		**0.0978**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

2020 Walnut Industrial Park

Los Angeles-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	153.00	1000sqft	3.51	153,000.00	0
Parking Lot	266.00	Space	2.39	106,400.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	9			**Operational Year**	2021
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Per GAA Architects Sheet No. A1.0, total building area for nine light industrial buildings is 153,000 square feet and parking provided is 266 spaces.

2.0 Emissions Summary

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	3.4678	3.9000e-004	0.0430	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004		0.0917	0.0917	2.4000e-004		0.0978
Energy	0.0818	0.7438	0.6248	4.4600e-003		0.0565	0.0565		0.0565	0.0565		892.6027	892.6027	0.0171	0.0164	897.9070
Mobile	5.8750	28.7324	89.1331	0.3140	25.1259	0.2568	25.3828	6.7244	0.2398	6.9642		31,908.1766	31,908.1766	1.6231		31,948.7532
Total	**9.4246**	**29.4766**	**89.8009**	**0.3184**	**25.1259**	**0.3135**	**25.4394**	**6.7244**	**0.2965**	**7.0209**		**32,800.8711**	**32,800.8711**	**1.6404**	**0.0164**	**32,846.7580**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	3.4678	3.9000e-004	0.0430	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004		0.0917	0.0917	2.4000e-004		0.0978
Energy	0.0818	0.7438	0.6248	4.4600e-003		0.0565	0.0565		0.0565	0.0565		892.6027	892.6027	0.0171	0.0164	897.9070
Mobile	5.8750	28.7324	89.1331	0.3140	25.1259	0.2568	25.3828	6.7244	0.2398	6.9642		31,908.1766	31,908.1766	1.6231		31,948.7532
Total	**9.4246**	**29.4766**	**89.8009**	**0.3184**	**25.1259**	**0.3135**	**25.4394**	**6.7244**	**0.2965**	**7.0209**		**32,800.8711**	**32,800.8711**	**1.6404**	**0.0164**	**32,846.7580**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	5.8750	28.7324	89.1331	0.3140	25.1259	0.2568	25.3828	6.7244	0.2398	6.9642		31,908.1766	31,908.1766	1.6231		31,948.7532
Unmitigated	5.8750	28.7324	89.1331	0.3140	25.1259	0.2568	25.3828	6.7244	0.2398	6.9642		31,908.1766	31,908.1766	1.6231		31,948.7532

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	2,668.32	2,668.32	2668.32	11,816,061	11,816,061
Parking Lot	0.00	0.00	0.00		
Total	2,668.32	2,668.32	2,668.32	11,816,061	11,816,061

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Light Industry	16.60	8.40	6.90	59.00	28.00	13.00	92	5	3
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.547192	0.045177	0.202743	0.121510	0.016147	0.006143	0.019743	0.029945	0.002479	0.002270	0.005078	0.000682	0.000891
Parking Lot	0.547192	0.045177	0.202743	0.121510	0.016147	0.006143	0.019743	0.029945	0.002479	0.002270	0.005078	0.000682	0.000891

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0818	0.7438	0.6248	4.4600e-003		0.0565	0.0565		0.0565	0.0565		892.6027	892.6027	0.0171	0.0164	897.9070
NaturalGas Unmitigated	0.0818	0.7438	0.6248	4.4600e-003		0.0565	0.0565		0.0565	0.0565		892.6027	892.6027	0.0171	0.0164	897.9070

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Light Industry	7587.12	0.0818	0.7438	0.6248	4.4600e-003		0.0565	0.0565		0.0565	0.0565		892.6027	892.6027	0.0171	0.0164	897.9070
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0818**	**0.7438**	**0.6248**	**4.4600e-003**		**0.0565**	**0.0565**		**0.0565**	**0.0565**		**892.6027**	**892.6027**	**0.0171**	**0.0164**	**897.9070**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Light Industry	7.58712	0.0818	0.7438	0.6248	4.4600e-003		0.0565	0.0565		0.0565	0.0565		892.6027	892.6027	0.0171	0.0164	897.9070
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0818**	**0.7438**	**0.6248**	**4.4600e-003**		**0.0565**	**0.0565**		**0.0565**	**0.0565**		**892.6027**	**892.6027**	**0.0171**	**0.0164**	**897.9070**

6.0 Area Detail

6.1 Mitigation Measures Area

No Hearths Installed

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	3.4678	3.9000e-004	0.0430	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004		0.0917	0.0917	2.4000e-004		0.0978
Unmitigated	3.4678	3.9000e-004	0.0430	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004		0.0917	0.0917	2.4000e-004		0.0978

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.3967					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.0671					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.0100e-003	3.9000e-004	0.0430	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004		0.0917	0.0917	2.4000e-004		0.0978
Total	**3.4678**	**3.9000e-004**	**0.0430**	**0.0000**		**1.5000e-004**	**1.5000e-004**		**1.5000e-004**	**1.5000e-004**		**0.0917**	**0.0917**	**2.4000e-004**		**0.0978**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.3967					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.0671					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.0100e-003	3.9000e-004	0.0430	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004		0.0917	0.0917	2.4000e-004		0.0978
Total	**3.4678**	**3.9000e-004**	**0.0430**	**0.0000**		**1.5000e-004**	**1.5000e-004**		**1.5000e-004**	**1.5000e-004**		**0.0917**	**0.0917**	**2.4000e-004**		**0.0978**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

2020 Walnut Industrial Park

Los Angeles-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	153.00	1000sqft	3.51	153,000.00	0
Parking Lot	266.00	Space	2.39	106,400.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	9			**Operational Year**	2021
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Per GAA Architects Sheet No. A1.0, total building area for nine light industrial buildings is 153,000 square feet and parking provided is 266 spaces.

2.0 Emissions Summary

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.6326	5.0000e-005	5.3700e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0104	0.0104	3.0000e-005	0.0000	0.0111
Energy	0.0149	0.1358	0.1140	8.1000e-004		0.0103	0.0103		0.0103	0.0103	0.0000	700.7606	700.7606	0.0257	7.4300e-003	703.6171
Mobile	1.0199	5.4959	15.5150	0.0551	4.4846	0.0468	4.5314	1.2022	0.0437	1.2458	0.0000	5,083.8630	5,083.8630	0.2652	0.0000	5,090.4923
Waste						0.0000	0.0000		0.0000	0.0000	38.5115	0.0000	38.5115	2.2760	0.0000	95.4105
Water						0.0000	0.0000		0.0000	0.0000	11.2248	146.7887	158.0135	1.1590	0.0285	195.4734
Total	**1.6674**	**5.6317**	**15.6344**	**0.0559**	**4.4846**	**0.0571**	**4.5418**	**1.2022**	**0.0540**	**1.2562**	**49.7363**	**5,931.4226**	**5,981.1589**	**3.7258**	**0.0359**	**6,085.0043**

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.6326	5.0000e-005	5.3700e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0104	0.0104	3.0000e-005	0.0000	0.0111
Energy	0.0149	0.1358	0.1140	8.1000e-004		0.0103	0.0103		0.0103	0.0103	0.0000	700.7606	700.7606	0.0257	7.4300e-003	703.6171
Mobile	1.0199	5.4959	15.5150	0.0551	4.4846	0.0468	4.5314	1.2022	0.0437	1.2458	0.0000	5,083.8630	5,083.8630	0.2652	0.0000	5,090.4923
Waste						0.0000	0.0000		0.0000	0.0000	19.2557	0.0000	19.2557	1.1380	0.0000	47.7052
Water						0.0000	0.0000		0.0000	0.0000	11.2248	146.7887	158.0135	1.1590	0.0285	195.4734
Total	**1.6674**	**5.6317**	**15.6344**	**0.0559**	**4.4846**	**0.0571**	**4.5418**	**1.2022**	**0.0540**	**1.2562**	**30.4806**	**5,931.4226**	**5,961.9032**	**2.5878**	**0.0359**	**6,037.2991**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**38.72**	**0.00**	**0.32**	**30.54**	**0.00**	**0.78**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1.0199	5.4959	15.5150	0.0551	4.4846	0.0468	4.5314	1.2022	0.0437	1.2458	0.0000	5,083.8630	5,083.8630	0.2652	0.0000	5,090.4923
Unmitigated	1.0199	5.4959	15.5150	0.0551	4.4846	0.0468	4.5314	1.2022	0.0437	1.2458	0.0000	5,083.8630	5,083.8630	0.2652	0.0000	5,090.4923

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	2,668.32	2,668.32	2668.32	11,816,061	11,816,061
Parking Lot	0.00	0.00	0.00		
Total	2,668.32	2,668.32	2,668.32	11,816,061	11,816,061

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Light Industry	16.60	8.40	6.90	59.00	28.00	13.00	92	5	3
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.547192	0.045177	0.202743	0.121510	0.016147	0.006143	0.019743	0.029945	0.002479	0.002270	0.005078	0.000682	0.000891
Parking Lot	0.547192	0.045177	0.202743	0.121510	0.016147	0.006143	0.019743	0.029945	0.002479	0.002270	0.005078	0.000682	0.000891

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	552.9802	552.9802	0.0228	4.7200e-003	554.9585
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	552.9802	552.9802	0.0228	4.7200e-003	554.9585
NaturalGas Mitigated	0.0149	0.1358	0.1140	8.1000e-004		0.0103	0.0103		0.0103	0.0103	0.0000	147.7804	147.7804	2.8300e-003	2.7100e-003	148.6586
NaturalGas Unmitigated	0.0149	0.1358	0.1140	8.1000e-004		0.0103	0.0103		0.0103	0.0103	0.0000	147.7804	147.7804	2.8300e-003	2.7100e-003	148.6586

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Light Industry	2.7693e+006	0.0149	0.1358	0.1140	8.1000e-004		0.0103	0.0103		0.0103	0.0103	0.0000	147.7804	147.7804	2.8300e-003	2.7100e-003	148.6586
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0149**	**0.1358**	**0.1140**	**8.1000e-004**		**0.0103**	**0.0103**		**0.0103**	**0.0103**	**0.0000**	**147.7804**	**147.7804**	**2.8300e-003**	**2.7100e-003**	**148.6586**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Light Industry	2.7693e+006	0.0149	0.1358	0.1140	8.1000e-004		0.0103	0.0103		0.0103	0.0103	0.0000	147.7804	147.7804	2.8300e-003	2.7100e-003	148.6586
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0149**	**0.1358**	**0.1140**	**8.1000e-004**		**0.0103**	**0.0103**		**0.0103**	**0.0103**	**0.0000**	**147.7804**	**147.7804**	**2.8300e-003**	**2.7100e-003**	**148.6586**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Light Industry	1.6983e+006	541.1148	0.0223	4.6200e-003	543.0506
Parking Lot	37240	11.8655	4.9000e-004	1.0000e-004	11.9079
Total		**552.9802**	**0.0228**	**4.7200e-003**	**554.9585**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Light Industry	1.6983e+006	541.1148	0.0223	4.6200e-003	543.0506
Parking Lot	37240	11.8655	4.9000e-004	1.0000e-004	11.9079
Total		**552.9802**	**0.0228**	**4.7200e-003**	**554.9585**

6.0 Area Detail

6.1 Mitigation Measures Area

No Hearths Installed

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.6326	5.0000e-005	5.3700e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0104	0.0104	3.0000e-005	0.0000	0.0111
Unmitigated	0.6326	5.0000e-005	5.3700e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0104	0.0104	3.0000e-005	0.0000	0.0111

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0724					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.5597					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	5.0000e-004	5.0000e-005	5.3700e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0104	0.0104	3.0000e-005	0.0000	0.0111
Total	**0.6326**	**5.0000e-005**	**5.3700e-003**	**0.0000**		**2.0000e-005**	**2.0000e-005**		**2.0000e-005**	**2.0000e-005**	**0.0000**	**0.0104**	**0.0104**	**3.0000e-005**	**0.0000**	**0.0111**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0724					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.5597					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	5.0000e-004	5.0000e-005	5.3700e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0104	0.0104	3.0000e-005	0.0000	0.0111
Total	**0.6326**	**5.0000e-005**	**5.3700e-003**	**0.0000**		**2.0000e-005**	**2.0000e-005**		**2.0000e-005**	**2.0000e-005**	**0.0000**	**0.0104**	**0.0104**	**3.0000e-005**	**0.0000**	**0.0111**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	158.0135	1.1590	0.0285	195.4734
Unmitigated	158.0135	1.1590	0.0285	195.4734

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Light Industry	35.3813 / 0	158.0135	1.1590	0.0285	195.4734
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**158.0135**	**1.1590**	**0.0285**	**195.4734**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Light Industry	35.3813 / 0	158.0135	1.1590	0.0285	195.4734
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**158.0135**	**1.1590**	**0.0285**	**195.4734**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	19.2557	1.1380	0.0000	47.7052
Unmitigated	38.5115	2.2760	0.0000	95.4105

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	189.72	38.5115	2.2760	0.0000	95.4105
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		**38.5115**	**2.2760**	**0.0000**	**95.4105**

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	94.86	19.2557	1.1380	0.0000	47.7052
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		**19.2557**	**1.1380**	**0.0000**	**47.7052**

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Energy Analysis

Land Use	Natural Gas Use	Electricity Use	Electricity Use
	(kBTU/yr)	(kWh/yr)	(MWh/yr)
General Light Industry	2769300	1698300	1,698
Parking Lot	0	37240	37
Total kBTU	**2,769,300**	**1,735,540**	1,736
Total Therms	27,693	1736	-

Energy Type	Project Annual Energy Consumption	Los Angeles County Annual	Percentage Increase Countywide
Electricity	1,736	67,569,000	0.0026%
Natural Gas	27,693	2,956,000,000	0.0009%

Note: 1 kBTU = 0.01 therms

Source: Refer to Appendix B for CalEEMod assumptions used in this analysis.

Energy Analysis

Vehicle Type	Percent of Vehicle Trips[1]	Daily Trips[2]	Annual Vehicle Miles Traveled[3]	Average Fuel Economy (miles per gallon)[4]	Total Annual Fuel Consumption (gallons)[5]
Passenger Cars	0.55	--	6463385.37	22	293,790
Light/Medium Trucks	0.37	--	4365089.25	17.3	252,317
Heavy Trucks/Other	0.08	--	987586.38	6.4	154,310
TOTAL [6]	***1.00***	--	***11,816,061***	*--*	***700,418***

Notes:

1. Percent of Vehicle Trip distribution based on trip characteristics within the CalEEMod model.
2. Daily Trips calculated by multiplying the total daily trips by percent vehicle trips (i.e., Daily Trips x percent of Vehicle Trips).
3. Daily Vehicle Miles Traveled (VMT) calculated by multiplying percent vehicle trips by total VMT (i.e., VMT x percent of Vehicle Trips).
4. Average fuel economy derived from the Department of Transportation.
5. Total Daily Fuel Consumption calculated by dividing the daily VMT by the average fuel economy (i.e., VMT/Average Fuel Economy).
6. Values may be slightly off due to rounding.

Source: Refer to Appendix B for CalEEMod assumptions used in this analysis.

Energy Analysis

Worker Trips						
Phase	**Phase Length (# days)**	**# Worker Trips**	**Worker Trip Length**	**Total VMT**	**Fuel Consumption Factor (Miles/Gallon/Day)**	**Total Fuel Consumption**
Grading	88	35	14.7	514.5	**24.90284233**	20.66029224
Building Construction	264	109	14.7	1602.3		64.34205297
Paving	22	10	14.7	147		5.902940639
Arch. Coating	22	22	14.7	323.4		12.98646941
						103.8917553

VENDOR TRIPS						
Phase	**Phase Length (# days)**	**# Vendor Trips**	**Vendor Trip Length**	**Total VMT**	**Fuel Consumption Factor (Miles/Gallon/Day)**	**Total Fuel Consumption**
Grading	88	0	6.9	0	**8.343886151**	0
Building Construction	264	43	6.9	296.7		35.55897032
Paving	22	0	6.9	0		0
Arch. Coating	22	0	6.9	0		0
						35.55897032

HAULING TRIPS						
Phase	**Phase Length (# days)**	**# Hauling Trips**	**Hauling Trip Length**	**Total VMT**	**Fuel Consumption Factor (Miles/Gallon/Day)**	**Total Fuel Consumption**
Grading	88	4140	20	82800	**5.719231801**	14477.46881
Building Construction	264	0	20	0		0
Paving	22	0	20	0		0
Arch. Coating	22	0	20	0		0
						14477.46881

TOTAL OFF-SITE MOBILE GALLONS CONSUMED DURING CONSTRUCTION	**14,616.92**

Energy Analysis

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor	Fuel Consumption Rate (gallons per hour)	Duration (total hours/day)	# days	Total Fuel Consumption (gallons)
Grading	Cranes	1	6	231	0.29	2.6796	6	65	1045.044
	Crawler Tractors	2	6	212	0.43	3.6464	12	65	2844.192
	Graders	3	6	187	0.41	3.0668	18	65	3588.156
	Rollers	1	6	80	0.38	1.216	6	65	474.24
	Rubber Tired Dozers	2	6	247	0.40	3.952	12	65	3082.56
	Scrapers	3	6	367	0.48	7.0464	18	65	8244.288
	Tractors/Loaders/Backhoes	1	6	97	0.37	1.4356	6	65	559.884
	Excavators	1	6	158	0.38	2.4016	6	65	936.624
Building Construction	Excavators	1	8	158	0.38	2.4016	8	263	5052.9664
	Pavers	1	8	130	0.42	2.184	8	263	4595.136
	Tractors/Loaders/Backhoes	2	6	97	0.37	1.4356	12	263	4530.7536
	Cranes	1	7	231	0.29	2.6796	7	263	4933.1436
	Rubber Tired Loaders	1	7	203	0.36	2.9232	7	263	5381.6112
	Forklifts	3	8	89	0.2	0.712	24	263	4494.144
	Generator Sets	1	8	84	0.74	2.4864	8	263	5231.3856
	Welders	1	8	46	0.45	0.828	8	263	1742.112
Architectural Coating	Air Compressors	1	6	78	0.48	1.4976	6	10	89.856
Paving	Pavers	1	8	130	0.42	2.184	8	45	786.24
	Paving Equipment	1	8	132	0.36	1.9008	8	45	684.288
	Rollers	1	8	80	0.38	1.216	8	45	437.76
	Tractors/Loaders/Backhoes	1	6	97	0.37	1.4356	6	45	387.612
								Sum Total:	59,122
								Off-Site Mobile Construction Trips:	14,617
								TOTAL:	**73,739**

Notes:

Fuel Consumption Rate = Horsepower x Load Factor x Fuel Consumption Factor

Where:

Fuel Consumption Factor for a diesel engine is 0.04 gallons per horsepower per hour (gal/hp/hr) and a gasoline engine is 0.06 gal/hp/hr.

Source: Refer to Appendix B for CalEEMod assumptions used in this analysis.