

Appendix 2

Air Quality and Greenhouse Gas Emissions Assessment

Appendix 2.1

CalEEMod Inputs

Worksheet

CalEEMod Inputs - Ronald Reagan Park (27-Acre Park)

Name: Ronald Reagan Park
Land Use Scale: Project/site
Land Use Subtypes: Recreational; Commercial City Park; Government Office Building
Project Location: North of Ronald Reagan Elementary School on 35445 Wildomar Trail
County: Riverside-South Coast
Land Use Setting: Rural/Suburban
TAZ: 5536
Operational Year: 2025
Electric Utility: Southern California Edison
Gas Utility: Southern California Gas
Air Basin: South Coast
Air District: South Coast AQMD

Project Site Acreage 27.00
 Disturbed Site Acreage 18.36

Project Components				
New Construction	Building Square Feet (SQFT)	Building Footprint (BSF)	Acres	Stories/Levels
Fire Station	8,700	8,700	0.20	1
Community Building	8,700	8,700	0.20	1
TOTAL	17,400		0.40	-
Other Land Uses	SQFT	Building Footprint	Acres	Number of Stalls
Parking Lot	289,530	NA	6.65	221
Non-asphalt hardscape	142,798	NA	3.28	
Total Hardscape	434,000	NA	9.96	
Landscaping	SQFT	Acres		
Landscaping	350,000	8.03		

CalEEMod Land Use Inputs

Land Use Type	Land Use Subtype	Size Metric	Size	Lot Acreage	Feature Square Feet	Landscape Area Square Feet	Special Landscape Area Square Feet
Recreational	City Park	Acre	8.23	8.23	8,700	350,000	0
Commercial	Government Office Building	1000 sqft	8.70	0.20	8,700	0	0
Parking	Parking Lot	1000 sqft	289.53	6.65	289,530	0	0
Parking	Other Non-Asphalt Surfaces	1000 sqft	142.80	3.28	142,798	0	0
				18.36	449,728	350,000	0

Architectural Coating¹

	Non-Residential
Interior Painted (%):	100%
Exterior Painted (%):	100%

South Coast AQMD Rule 1113

	< 50 flat / ≤ 50 nonflat grams/liter
CalEEMod Default	
Interior Paint VOC content:	50
Exterior Paint VOC content:	50

Notes:

¹ CalEEMod default used.

Structures	Land Use Square Feet	CalEEMod Factor ¹	Total Paintable Surface Area	Paintable Interior Area ²	Paintable Exterior Area ²
City Park (Community Building)	8,700	2.0	17,400	13,050	4,350
Government Office Building	8,700	2.0	17,400	13,050	4,350
				26,100	8,700
Parking³					
Parking Lot (Striping)	432,328	6%		-	25,940
			Totals	26,100	34,640

Notes:

¹ CalEEMod assumes the total surface for painting equals 2.0 times the floor square footage for non-residential use.² CalEEMod methodology calculates the paintable interior and exterior areas by multiplying the total paintable surface area by 75 and 25 percent, respectively.³ Architectural coatings for the parking lot is based on CalEEMod default.**CalEEMod Construction Measures/Required Basic Construction Emission Control Practices (BMPs)****Construction Mitigation****SCAQMD Rule 403**

Water Exposed Area (during grading) Frequency:	2	per day
PM10:	61	% Reduction
PM25:	61	% Reduction

Water Exposed Area Frequency:	2	per day
PM10:	55	% Reduction
PM25:	55	% Reduction

Unpaved Roads Vehicle Speed:	25	mph
	44	% Reduction
	44	% Reduction

SCAQMD Rule 1186

Clean Paved Road	9	% PM Reduction
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Southern California Edison Carbon Intensity Factors

CO _{2e} : ¹	444.00	pounds per megawatt hour
CH ₄	0	pound per megawatt hour
N ₂ O	0	pound per megawatt hour

¹ Based on CO_{2e} intensity factor of 444 pounds per megawatt hour; Southern California Edison. 2022. 2022 Sustainability Report. <https://www.edison.com/sustainability/sustainability-report>

Electricity Use¹

Land Use Type	TOTAL Electricity (kWh/year)	TOTAL Natural Gas (kBTU/year)	Subject to Title 24 Standards		Not Subject to Title 24 Standards	
			Electricity (kWh/year)	Natural Gas (kBTU/year)	Electricity (kWh/year)	Natural Gas (kBTU/year)
City Park	83,251.17	373,667.61	71,428.74	144,943.74	11,822.43	228,724.74
Fire Station	151,755.60	240,003.89	122,345.43	193,919.28	29,410.16	46,084.61
Parking Lot	253,628.28	0.00	253,628.28	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00
	488,635	613,672	193,774	338,863	41,233	274,809

Notes: 1. City Park energy use defaulted to zero and did not account for the 8,700 sf of community building space. Therefore, the energy use was updated to reflect the CalEEMod defaults for "Racquet Club" in EDFZ 11.

Water Use

Land Use Type	Indoor Water Use (gals/year)	Include Precipitation? (y/n)	Outdoor Water Use (gals/year)
City Park	514,544	y	5,549,499.00
Fire Station	1,728,339	y	0.00
Parking Lot	0	y	0.00
Other Asphalt Surfaces	0	y	0.00
	2,242,883		5,549,499

Notes: 1. City Park indoor water use defaulted to zero and did not account for the 8,700 sf of community building space. Therefore, the indoor water use was updated to reflect the CalEEMod defaults for "Racquet Club".

Net Trips

Land Use Type	Average Daily Trips	CalEEMod Trip Rate	Saturday Trips	CalEEMod Trip Rate	Sunday Trips	CalEEMod Trip Rate
City Park	104	12.63	109	13.24	97	11.78
Fire Station	14	1.61	14	1.61	14	1.61
	118		123		111	

Source: ITE Manual Trip Rates

For the Fire and Rescue Station, only peak hour trip rates were provided by the ITE Trip Generation Manual. Therefore, as an industry standard, the peak hour trip rates were multiplied by 10 to identify an estimated average daily trip rate. For all other land uses, the ITE Trip Generation

Notes: Manual rates were used (Codes 411, 495, and 575).

Construction Activities and Schedule Assumptions: Ronald Reagan Park (27-Acre Park)

Default Construction Schedule

Construction Activities	Phase Type	Start Date	End Date	CalEEMod Duration (Workday)
Site Preparation	Site Preparation	1/30/2024	2/13/2024	10
Rough Grading	Rough Grading	2/14/2024	3/27/2024	30
Building Construction	Building Construction	3/28/2024	5/22/2025	300
Asphalt Paving	Paving	8/13/2024	6/20/2025	20
Architectural Coating	Architectural Coating	8/13/2024	7/19/2025	20

New Construction Schedule (CalEEMod)

Construction Activities	Start Date	End Date	CalEEMod Duration (Workday)
Site Preparation	1/30/2024	2/13/2024	10
Rough Grading	2/14/2024	3/27/2024	30
Building Construction	3/28/2024	5/22/2025	300
Asphalt Paving	4/25/2025	5/22/2025	20
Architectural Coating	4/25/2025	5/22/2025	20

Overlapping Construction Schedule (CalEEMod)

Construction Activities	Start Date	End Date	CalEEMod Duration (Workday)
Site Preparation	1/30/2024	2/13/2024	10
Rough Grading	2/14/2024	3/27/2024	30
Building Construction	3/28/2024	4/24/2025	300
Building Construction, Asphalt Paving, and Architectural Coating	4/25/2025	5/22/2025	20

CalEEMod Construction Off-Road Equipment Inputs

*Used CalEEMod default equipment.

General Construction Hours:

Mon-Fri and 8:00 AM to 7:00 PM (with 1 hr break)

Water Truck Vendor Trip Calculation

Amount of Water (gal/acre/day) ¹	Water Truck Capacity (gallons) ²
10,000	4,000

Notes:

¹ Based on data provided in Guidance for Application for Dust Control Permit Maricopa County Air Quality Department. 2005, June. Guidance for Application of Dust Control Permit. <https://www.epa.gov/sites/default/files/2019->

² Based on standard water truck capacity: McLellan Industries. 2022, January (access). Water Trucks. <https://www.mcllellanindustries.com/trucks/water-trucks/>

³ Assumes that dozers, tractors/loaders/backhoes, and graders can disturb 0.50 acres per day and scrapers can disturb 1 acre per day.

Construction Equipment Details						
CalEEMod Equipment	# of Equipment	hr/day	hp	load factor	Total Trips/Day	On-Site Water Truck Travel Distance (miles/day)
Site Preparation						
Tractors/Loaders/Backhoes	4	8	84	0.37		
Rubber Tired Dozers	3	8	367	0.4		
Worker Trips/Day					18	
Vendor Trips (Water Truck Refill Trips)					18	
Hauling Trips (TOTAL TRIPS)					0	
Onsite Trucks (Water Truck)		Acres Disturbed	3.50		1	2.9
Grading						
Graders	1	8	148	0.41		
Rubber Tired Dozers	1	8	367	0.4		
Tractors/Loaders/Backhoes	2	8	84	0.37		
Scrapers	2	8	423	0.48		
Excavators	2	8	36	0.38		
Worker Trips					20	
Vendor Trips (Water Truck Refill Trips)					20	
Hauling Trips (TOTAL TRIPS)					0	
Onsite Trucks (Water Truck)		Acres Disturbed	4.00		1	3.3
Building Construction						
Cranes	1	7	367	0.29		
Forklifts	3	8	82	0.2		
Generator Sets	1	7	14	0.74		
Tractors/Loaders/Backhoes	3	7	84	0.37		
Welders	1	8	46	0.45		
Worker Trips					3	
Vendor Trips					9	
Hauling Trips (TOTAL TRIPS)					0	
Asphalt Paving						
Pavers	2	8	81	0.42		
Rollers	2	6	36	0.38		
Paving Equipment	2	6	89	0.36		
Worker Trips					15	
Vendor Trips					0	
Hauling Trips (TOTAL TRIPS)					0	
Architectural Coating						
Air Compressors	1	6	37	0.48		
Worker Trips					1	
Vendor Trips					0	
Hauling Trips (TOTAL TRIPS)					0	

Construction Trips Worksheet

Phase Name	Worker Trip Ends	Vendor Trip Ends	Total Haul Truck	Start Date	End Date	Workdays
	Per Day	Per Day	Trip Ends			
Site Preparation	18	19	0	1/30/2024	2/13/2024	10
Rough Grading	20	21	0	2/14/2024	3/27/2024	30
Building Construction	3	9	0	3/28/2024	5/22/2025	300
Asphalt Paving	15	0	0	4/25/2025	5/22/2025	20
Architectural Coating	1	0	0	4/25/2025	5/22/2025	20

Construction Activity (Overlapping)	Worker Trip Ends	Vendor Trip Ends	Total Trip Ends	Start Date	End Date	Workdays
	Per Day	Per Day	Per Day			
Site Preparation	18	19	0	1/30/2024	2/13/2024	10
Rough Grading	20	21	0	2/14/2024	3/27/2024	30
Building Construction	3	9	0	3/28/2024	4/24/2025	300
Building Construction, Asphalt Paving, and Architectural Coating	19	9	0	4/25/2025	5/22/2025	20
Maximum Daily Trips	20	21	1			

ITE Trip Rates								
Public Park (Land Use Code:411)	Acres	Weekdays			Saturday		Sunday	
		Total	AM Peak	PM Peak	Total	Peak Hour	Total	Peak Hour
Average Daily Rate	27	0.78	0.07	0.11	1.96	0.28	2.19	0.31
Total Average Daily Trips	-	22	2	3	53	8	60	9
Entering/Exiting	-	11/11	1/1	1/2	26/27	4/4	30/30	4/5
Recreation Community Center (Land Use Code:495)	Employees	Weekdays			Saturday		Sunday	
		Total	AM Peak	PM Peak	Total	Peak Hour	Total	Peak Hour
Average Daily Rate	3	27.25	1.90	2.71	18.34	2.59	12.03	1.66
Total Average Daily Trips	-	82	6	9	56	8	37	5
Entering/Exiting	-	41/41	4/2	4/5	28/28	4/4	18/19	2/3
Fire and Rescue Station (Land Use Code: 575)	Employees	Weekdays			Saturday		Sunday	
		Total	AM Peak	PM Peak	Total	Peak Hour	Total	Peak Hour
Average Daily Rate	3	4.40	0.44	0.44	4.40	0.44	4.40	0.44
Total Average Daily Trips	-	14	2	2	14	2	14	2
Entering/Exiting	-	7/7	1/1	1/1	7/7	1/1	7/7	1/1
Note: For the Fire and Rescue Station, only peak hour trip rates were provided by the ITE Trip Generation Manual. Therefore, as an industry standard, the peak hour trip rates were multiplied by 10 to identify an estimated average daily trip rate.								
Proposed Project Totals		Weekdays			Saturday		Sunday	
		Total	AM Peak	PM Peak	Total	Peak Hour	Total	Peak Hour
Total Average Daily Trips	-	118	10	14	123	18	111	16
Entering/Exiting	-	59/59	6/4	6/8	61/62	9/9	55/56	7/9

Appendix 2.2

CalEEMod Modeling Output

Ronald Reagan Park (WILD-01.6) v2 Custom Report

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1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Ronald Reagan Park (WILD-01.6) v2
Construction Start Date	1/1/2024
Operational Year	2025
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	9.20
Location	33.607774499327746, -117.24324112153622
County	Riverside-South Coast
City	Wildomar
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5536
EDFZ	11
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.14

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
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City Park	8.23	Acre	0.00	0.00	350,000	0.00	—	—
Government Office Building	8.70	1000sqft	0.20	8,700	0.00	0.00	—	—
Parking Lot	290	1000sqft	6.65	0.00	0.00	0.00	—	—
Other Non-Asphalt Surfaces	143	1000sqft	3.28	0.00	0.00	0.00	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

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

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	2.54	17.1	18.9	25.2	0.04	0.81	0.18	0.98	0.74	0.04	0.79	—	4,258	4,258	0.17	0.05	0.76	4,276
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	4.45	3.74	36.6	33.9	0.06	1.61	9.00	10.6	1.48	4.12	5.60	—	7,306	7,306	0.29	0.14	0.06	7,355
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.27	1.19	10.0	10.8	0.02	0.44	0.68	1.12	0.40	0.25	0.65	—	2,106	2,106	0.08	0.03	0.15	2,117
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.23	0.22	1.83	1.96	< 0.005	0.08	0.12	0.20	0.07	0.05	0.12	—	349	349	0.01	< 0.005	0.03	351

2.2. Construction Emissions by Year, Unmitigated

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

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	1.45	1.22	11.3	13.3	0.02	0.50	0.04	0.53	0.46	0.01	0.47	—	2,462	2,462	0.10	0.03	0.21	2,472
2025	2.54	17.1	18.9	25.2	0.04	0.81	0.18	0.98	0.74	0.04	0.79	—	4,258	4,258	0.17	0.05	0.76	4,276
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	4.45	3.74	36.6	33.9	0.06	1.61	9.00	10.6	1.48	4.12	5.60	—	7,306	7,306	0.29	0.14	0.06	7,355
2025	1.36	1.14	10.5	13.2	0.02	0.43	0.04	0.47	0.40	0.01	0.41	—	2,459	2,459	0.10	0.03	0.01	2,469
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	1.27	1.06	10.0	10.8	0.02	0.44	0.68	1.12	0.40	0.25	0.65	—	2,106	2,106	0.08	0.03	0.15	2,117
2025	0.44	1.19	3.38	4.31	0.01	0.14	0.02	0.16	0.13	< 0.005	0.13	—	781	781	0.03	0.01	0.04	785
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	0.23	0.19	1.83	1.96	< 0.005	0.08	0.12	0.20	0.07	0.05	0.12	—	349	349	0.01	< 0.005	0.03	351
2025	0.08	0.22	0.62	0.79	< 0.005	0.03	< 0.005	0.03	0.02	< 0.005	0.02	—	129	129	0.01	< 0.005	0.01	130

2.4. Operations Emissions Compared Against Thresholds

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

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.69	1.30	0.73	5.71	0.01	0.02	1.09	1.11	0.02	0.28	0.30	17.9	2,194	2,212	1.89	0.09	4.98	2,290

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.58	1.20	0.77	4.47	0.01	0.02	1.09	1.11	0.02	0.28	0.30	17.9	2,112	2,130	1.89	0.09	0.15	2,205
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.60	1.22	0.76	4.69	0.01	0.02	1.05	1.07	0.02	0.27	0.29	17.9	2,071	2,089	1.89	0.09	2.07	2,165
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.11	0.22	0.14	0.86	< 0.005	< 0.005	0.19	0.19	< 0.005	0.05	0.05	2.97	343	346	0.31	0.01	0.34	358

2.5. Operations Emissions by Sector, Unmitigated

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

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.60	0.55	0.57	5.20	0.01	0.01	1.09	1.10	0.01	0.28	0.29	—	1,308	1,308	0.05	0.06	4.95	1,331
Area	0.07	0.74	< 0.005	0.38	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.56	1.56	< 0.005	< 0.005	—	1.56
Energy	0.02	0.01	0.16	0.14	< 0.005	0.01	—	0.01	0.01	—	0.01	—	791	791	0.02	< 0.005	—	792
Water	—	—	—	—	—	—	—	—	—	—	—	13.2	92.7	106	1.35	0.03	—	149
Waste	—	—	—	—	—	—	—	—	—	—	—	4.74	0.00	4.74	0.47	0.00	—	16.6
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.02	0.02
Total	0.69	1.30	0.73	5.71	0.01	0.02	1.09	1.11	0.02	0.28	0.30	17.9	2,194	2,212	1.89	0.09	4.98	2,290
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.57	0.51	0.61	4.33	0.01	0.01	1.09	1.10	0.01	0.28	0.29	—	1,229	1,229	0.05	0.06	0.13	1,247
Area	—	0.68	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Energy	0.02	0.01	0.16	0.14	< 0.005	0.01	—	0.01	0.01	—	0.01	—	791	791	0.02	< 0.005	—	792
Water	—	—	—	—	—	—	—	—	—	—	—	13.2	92.7	106	1.35	0.03	—	149
Waste	—	—	—	—	—	—	—	—	—	—	—	4.74	0.00	4.74	0.47	0.00	—	16.6
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.02	0.02
Total	0.58	1.20	0.77	4.47	0.01	0.02	1.09	1.11	0.02	0.28	0.30	17.9	2,112	2,130	1.89	0.09	0.15	2,205
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.54	0.49	0.59	4.30	0.01	0.01	1.05	1.05	0.01	0.27	0.27	—	1,187	1,187	0.05	0.06	2.05	1,207
Area	0.05	0.72	< 0.005	0.26	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.07	1.07	< 0.005	< 0.005	—	1.07
Energy	0.02	0.01	0.16	0.14	< 0.005	0.01	—	0.01	0.01	—	0.01	—	791	791	0.02	< 0.005	—	792
Water	—	—	—	—	—	—	—	—	—	—	—	13.2	92.7	106	1.35	0.03	—	149
Waste	—	—	—	—	—	—	—	—	—	—	—	4.74	0.00	4.74	0.47	0.00	—	16.6
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.02	0.02
Total	0.60	1.22	0.76	4.69	0.01	0.02	1.05	1.07	0.02	0.27	0.29	17.9	2,071	2,089	1.89	0.09	2.07	2,165
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.10	0.09	0.11	0.78	< 0.005	< 0.005	0.19	0.19	< 0.005	0.05	0.05	—	196	196	0.01	0.01	0.34	200
Area	0.01	0.13	< 0.005	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.18	0.18	< 0.005	< 0.005	—	0.18
Energy	< 0.005	< 0.005	0.03	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	131	131	< 0.005	< 0.005	—	131
Water	—	—	—	—	—	—	—	—	—	—	—	2.18	15.4	17.5	0.22	0.01	—	24.7
Waste	—	—	—	—	—	—	—	—	—	—	—	0.79	0.00	0.79	0.08	0.00	—	2.75
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	< 0.005	< 0.005
Total	0.11	0.22	0.14	0.86	< 0.005	< 0.005	0.19	0.19	< 0.005	0.05	0.05	2.97	343	346	0.31	0.01	0.34	358

3. Construction Emissions Details

3.1. Site Preparation (2024) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipmen	4.34	3.65	36.0	32.9	0.05	1.60	—	1.60	1.47	—	1.47	—	5,296	5,296	0.21	0.04	—	5,314
Dust From Material Movemen	—	—	—	—	—	—	7.67	7.67	—	3.94	3.94	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	1.05	1.05	< 0.005	0.10	0.11	—	11.6	11.6	< 0.005	< 0.005	< 0.005	12.1
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipmen	0.12	0.10	0.99	0.90	< 0.005	0.04	—	0.04	0.04	—	0.04	—	145	145	0.01	< 0.005	—	146
Dust From Material Movemen	—	—	—	—	—	—	0.21	0.21	—	0.11	0.11	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.03	0.03	< 0.005	< 0.005	< 0.005	—	0.32	0.32	< 0.005	< 0.005	< 0.005	0.33
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipmen	0.02	0.02	0.18	0.16	< 0.005	0.01	—	0.01	0.01	—	0.01	—	24.0	24.0	< 0.005	< 0.005	—	24.1
Dust From Material Movemen	—	—	—	—	—	—	0.04	0.04	—	0.02	0.02	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	0.05	0.05	< 0.005	< 0.005	< 0.005	0.05

Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.08	0.07	0.82	0.00	0.00	0.16	0.16	0.00	0.04	0.04	—	161	161	0.01	0.01	0.02	163
Vendor	0.02	0.01	0.58	0.19	< 0.005	0.01	0.13	0.13	0.01	0.03	0.04	—	460	460	0.01	0.07	0.03	481
Hauling	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	4.46	4.46	< 0.005	< 0.005	0.01	4.53
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	12.6	12.6	< 0.005	< 0.005	0.02	13.2
Hauling	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.74	0.74	< 0.005	< 0.005	< 0.005	0.75
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.09	2.09	< 0.005	< 0.005	< 0.005	2.18
Hauling	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	0.00

3.3. Grading (2024) - Unmitigated

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

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

Off-Road Equipmen	4.19	3.52	34.3	30.2	0.06	1.45	—	1.45	1.33	—	1.33	—	6,598	6,598	0.27	0.05	—	6,621
Dust From Material Movemen	—	—	—	—	—	—	3.59	3.59	—	1.42	1.42	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	1.19	1.19	< 0.005	0.12	0.12	—	12.9	12.9	< 0.005	< 0.005	< 0.005	13.6
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipmen	0.34	0.29	2.82	2.48	0.01	0.12	—	0.12	0.11	—	0.11	—	542	542	0.02	< 0.005	—	544
Dust From Material Movemen	—	—	—	—	—	—	0.30	0.30	—	0.12	0.12	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.10	0.10	< 0.005	0.01	0.01	—	1.06	1.06	< 0.005	< 0.005	< 0.005	1.11
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipmen	0.06	0.05	0.51	0.45	< 0.005	0.02	—	0.02	0.02	—	0.02	—	89.8	89.8	< 0.005	< 0.005	—	90.1
Dust From Material Movemen	—	—	—	—	—	—	0.05	0.05	—	0.02	0.02	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	—	0.18	0.18	< 0.005	< 0.005	< 0.005	0.18
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.10	0.09	0.08	0.93	0.00	0.00	0.18	0.18	0.00	0.04	0.04	—	184	184	0.01	0.01	0.02	186

Vendor	0.02	0.02	0.64	0.21	< 0.005	0.01	0.14	0.15	0.01	0.04	0.05	—	511	511	0.01	0.08	0.04	535
Hauling	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.08	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	15.3	15.3	< 0.005	< 0.005	0.03	15.5
Vendor	< 0.005	< 0.005	0.05	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	42.0	42.0	< 0.005	0.01	0.05	44.0
Hauling	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.53	2.53	< 0.005	< 0.005	< 0.005	2.57
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	6.95	6.95	< 0.005	< 0.005	0.01	7.28
Hauling	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	0.00

3.5. Building Construction (2024) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipmen	1.44	1.20	11.2	13.1	0.02	0.50	—	0.50	0.46	—	0.46	—	2,398	2,398	0.10	0.02	—	2,406
Onsite truck	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	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipmen	1.44	1.20	11.2	13.1	0.02	0.50	—	0.50	0.46	—	0.46	—	2,398	2,398	0.10	0.02	—	2,406
Onsite truck	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	0.00

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipmen	0.78	0.66	6.13	7.16	0.01	0.27	—	0.27	0.25	—	0.25	—	1,309	1,309	0.05	0.01	—	1,314
Onsite truck	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipmen	0.14	0.12	1.12	1.31	< 0.005	0.05	—	0.05	0.05	—	0.05	—	217	217	0.01	< 0.005	—	217
Onsite truck	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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.17	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	27.8	27.8	< 0.005	< 0.005	0.11	28.3
Vendor	< 0.005	< 0.005	0.04	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	36.4	36.4	< 0.005	0.01	0.10	38.2
Hauling	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	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.13	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	25.6	25.6	< 0.005	< 0.005	< 0.005	25.9
Vendor	< 0.005	< 0.005	0.05	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	36.5	36.5	< 0.005	0.01	< 0.005	38.1
Hauling	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.07	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	14.1	14.1	< 0.005	< 0.005	0.03	14.4
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	19.9	19.9	< 0.005	< 0.005	0.02	20.8
Hauling	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.34	2.34	< 0.005	< 0.005	< 0.005	2.38

Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.29	3.29	< 0.005	< 0.005	< 0.005	3.45
Hauling	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	0.00

3.7. Building Construction (2025) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipmen	1.35	1.13	10.4	13.0	0.02	0.43	—	0.43	0.40	—	0.40	—	2,398	2,398	0.10	0.02	—	2,406
Onsite truck	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	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipmen	1.35	1.13	10.4	13.0	0.02	0.43	—	0.43	0.40	—	0.40	—	2,398	2,398	0.10	0.02	—	2,406
Onsite truck	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipmen	0.37	0.31	2.90	3.62	0.01	0.12	—	0.12	0.11	—	0.11	—	666	666	0.03	0.01	—	669
Onsite truck	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipmen	0.07	0.06	0.53	0.66	< 0.005	0.02	—	0.02	0.02	—	0.02	—	110	110	< 0.005	< 0.005	—	111
Onsite truck	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	0.00

Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.16	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	27.2	27.2	< 0.005	< 0.005	0.10	27.7
Vendor	< 0.005	< 0.005	0.04	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	35.9	35.9	< 0.005	0.01	0.10	37.6
Hauling	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	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.12	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	25.1	25.1	< 0.005	< 0.005	< 0.005	25.4
Vendor	< 0.005	< 0.005	0.04	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	35.9	35.9	< 0.005	0.01	< 0.005	37.6
Hauling	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	7.05	7.05	< 0.005	< 0.005	0.01	7.16
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	9.98	9.98	< 0.005	< 0.005	0.01	10.4
Hauling	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.17	1.17	< 0.005	< 0.005	< 0.005	1.18
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.65	1.65	< 0.005	< 0.005	< 0.005	1.73
Hauling	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	0.00

3.9. Paving (2025) - Unmitigated

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

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

Off-Road Equipmen	0.95	0.80	7.45	9.98	0.01	0.35	—	0.35	0.32	—	0.32	—	1,511	1,511	0.06	0.01	—	1,517
Paving	—	0.87	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	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	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipmen	0.05	0.04	0.41	0.55	< 0.005	0.02	—	0.02	0.02	—	0.02	—	82.8	82.8	< 0.005	< 0.005	—	83.1
Paving	—	0.05	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipmen	0.01	0.01	0.07	0.10	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	13.7	13.7	< 0.005	< 0.005	—	13.8
Paving	—	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.06	0.05	0.84	0.00	0.00	0.14	0.14	0.00	0.03	0.03	—	147	147	0.01	0.01	0.54	149
Vendor	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	0.00
Hauling	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	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	7.49	7.49	< 0.005	< 0.005	0.01	7.60
Vendor	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	0.00
Hauling	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.24	1.24	< 0.005	< 0.005	< 0.005	1.26
Vendor	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	0.00
Hauling	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	0.00

3.11. Architectural Coating (2025) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipmen	0.15	0.13	0.88	1.14	< 0.005	0.03	—	0.03	0.03	—	0.03	—	134	134	0.01	< 0.005	—	134
Architect ural Coatings	—	14.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	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	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipmen	0.01	0.01	0.05	0.06	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	7.32	7.32	< 0.005	< 0.005	—	7.34
Architect ural Coatings	—	0.77	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Onsite truck	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipmen	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.21	1.21	< 0.005	< 0.005	—	1.22
Architect ural Coatings	—	0.14	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	5.45	5.45	< 0.005	< 0.005	0.02	5.53
Vendor	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	0.00
Hauling	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	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.28	0.28	< 0.005	< 0.005	< 0.005	0.28
Vendor	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	0.00
Hauling	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.05	0.05	< 0.005	< 0.005	< 0.005	0.05
Vendor	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	0.00
Hauling	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	0.00

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
City Park	0.53	0.49	0.50	4.60	0.01	0.01	0.97	0.98	0.01	0.25	0.25	—	1,159	1,159	0.04	0.05	4.39	1,180
Government Office Building	0.07	0.06	0.06	0.59	< 0.005	< 0.005	0.12	0.13	< 0.005	0.03	0.03	—	149	149	0.01	0.01	0.56	152
Parking Lot	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	0.00
Other Non-Asphalt Surfaces	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	0.00
Total	0.60	0.55	0.57	5.20	0.01	0.01	1.09	1.10	0.01	0.28	0.29	—	1,308	1,308	0.05	0.06	4.95	1,331
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
City Park	0.50	0.45	0.54	3.83	0.01	0.01	0.97	0.98	0.01	0.25	0.25	—	1,089	1,089	0.05	0.05	0.11	1,105
Government Office Building	0.06	0.06	0.07	0.49	< 0.005	< 0.005	0.12	0.13	< 0.005	0.03	0.03	—	140	140	0.01	0.01	0.01	142
Parking Lot	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	0.00

Other Non-Asphalt Surfaces	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	0.00
Total	0.57	0.51	0.61	4.33	0.01	0.01	1.09	1.10	0.01	0.28	0.29	—	1,229	1,229	0.05	0.06	0.13	1,247
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
City Park	0.09	0.08	0.10	0.69	< 0.005	< 0.005	0.17	0.17	< 0.005	0.04	0.04	—	173	173	0.01	0.01	0.30	176
Government Office Building	0.01	0.01	0.01	0.09	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	23.4	23.4	< 0.005	< 0.005	0.04	23.8
Parking Lot	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	0.00
Other Non-Asphalt Surfaces	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	0.00
Total	0.10	0.09	0.11	0.78	< 0.005	< 0.005	0.19	0.19	< 0.005	0.05	0.05	—	196	196	0.01	0.01	0.34	200

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
City Park	—	—	—	—	—	—	—	—	—	—	—	—	101	101	0.00	0.00	—	101
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	—	185	185	0.00	0.00	—	185
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	309	309	0.00	0.00	—	309

Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	594	594	0.00	0.00	—	594
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
City Park	—	—	—	—	—	—	—	—	—	—	—	—	101	101	0.00	0.00	—	101
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	—	185	185	0.00	0.00	—	185
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	309	309	0.00	0.00	—	309
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	594	594	0.00	0.00	—	594
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
City Park	—	—	—	—	—	—	—	—	—	—	—	—	16.8	16.8	0.00	0.00	—	16.8
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	—	30.6	30.6	0.00	0.00	—	30.6
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	51.1	51.1	0.00	0.00	—	51.1
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	98.4	98.4	0.00	0.00	—	98.4

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
City Park	0.01	0.01	0.10	0.08	< 0.005	0.01	—	0.01	0.01	—	0.01	—	120	120	0.01	< 0.005	—	120
Government Office Building	0.01	< 0.005	0.06	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	76.9	76.9	0.01	< 0.005	—	77.1
Parking Lot	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
Other Non-Asphalt Surfaces	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
Total	0.02	0.01	0.16	0.14	< 0.005	0.01	—	0.01	0.01	—	0.01	—	197	197	0.02	< 0.005	—	197
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
City Park	0.01	0.01	0.10	0.08	< 0.005	0.01	—	0.01	0.01	—	0.01	—	120	120	0.01	< 0.005	—	120
Government Office Building	0.01	< 0.005	0.06	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	76.9	76.9	0.01	< 0.005	—	77.1
Parking Lot	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
Other Non-Asphalt Surfaces	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
Total	0.02	0.01	0.16	0.14	< 0.005	0.01	—	0.01	0.01	—	0.01	—	197	197	0.02	< 0.005	—	197
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
City Park	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	19.8	19.8	< 0.005	< 0.005	—	19.9

Government Office Building	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	12.7	12.7	< 0.005	< 0.005	—	12.8
Parking Lot	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
Other Non-Asphalt Surfaces	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
Total	< 0.005	< 0.005	0.03	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	32.6	32.6	< 0.005	< 0.005	—	32.7

4.3. Area Emissions by Source

4.3.2. Unmitigated

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

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	0.61	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.08	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.07	0.06	< 0.005	0.38	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.56	1.56	< 0.005	< 0.005	—	1.56
Total	0.07	0.74	< 0.005	0.38	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.56	1.56	< 0.005	< 0.005	—	1.56
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Consumer	—	0.61	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.08	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	0.68	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	0.11	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.01	0.01	< 0.005	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.18	0.18	< 0.005	< 0.005	—	0.18
Total	0.01	0.13	< 0.005	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.18	0.18	< 0.005	< 0.005	—	0.18

4.4. Water Emissions by Land Use

4.4.2. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
City Park	—	—	—	—	—	—	—	—	—	—	—	9.86	78.4	88.3	1.01	0.02	—	121
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	3.31	14.3	17.6	0.34	0.01	—	28.5

Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	13.2	92.7	106	1.35	0.03	—	149
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
City Park	—	—	—	—	—	—	—	—	—	—	—	9.86	78.4	88.3	1.01	0.02	—	121
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	3.31	14.3	17.6	0.34	0.01	—	28.5
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	13.2	92.7	106	1.35	0.03	—	149
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
City Park	—	—	—	—	—	—	—	—	—	—	—	1.63	13.0	14.6	0.17	< 0.005	—	20.0
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	0.55	2.37	2.92	0.06	< 0.005	—	4.72
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	2.18	15.4	17.5	0.22	0.01	—	24.7

4.5. Waste Emissions by Land Use

4.5.2. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
City Park	—	—	—	—	—	—	—	—	—	—	—	0.38	0.00	0.38	0.04	0.00	—	1.33
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	4.36	0.00	4.36	0.44	0.00	—	15.3
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	4.74	0.00	4.74	0.47	0.00	—	16.6
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
City Park	—	—	—	—	—	—	—	—	—	—	—	0.38	0.00	0.38	0.04	0.00	—	1.33
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	4.36	0.00	4.36	0.44	0.00	—	15.3
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	4.74	0.00	4.74	0.47	0.00	—	16.6

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
City Park	—	—	—	—	—	—	—	—	—	—	—	0.06	0.00	0.06	0.01	0.00	—	0.22
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	0.72	0.00	0.72	0.07	0.00	—	2.53
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.79	0.00	0.79	0.08	0.00	—	2.75

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.02	0.02
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.02	0.02
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00

Government	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.02	0.02
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.02	0.02
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	< 0.005	< 0.005
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	< 0.005	< 0.005

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

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

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

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

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

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

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

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

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

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

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

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

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

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

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

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

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

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

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

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

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Site Preparation	Site Preparation	1/30/2024	2/13/2024	5.00	10.0	—
Grading	Grading	2/14/2024	3/27/2024	5.00	30.0	—
Building Construction	Building Construction	3/28/2024	5/22/2025	5.00	300	—
Paving	Paving	4/25/2025	5/22/2025	5.00	20.0	—
Architectural Coating	Architectural Coating	4/25/2025	5/22/2025	5.00	20.0	—

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Site Preparation	Rubber Tired Dozers	Diesel	Average	3.00	8.00	367	0.40

Site Preparation	Tractors/Loaders/Backhoes	Diesel	Average	4.00	8.00	84.0	0.37
Grading	Excavators	Diesel	Average	2.00	8.00	36.0	0.38
Grading	Graders	Diesel	Average	1.00	8.00	148	0.41
Grading	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Grading	Scrapers	Diesel	Average	2.00	8.00	423	0.48
Grading	Tractors/Loaders/Backhoes	Diesel	Average	2.00	8.00	84.0	0.37
Building Construction	Cranes	Diesel	Average	1.00	7.00	367	0.29
Building Construction	Forklifts	Diesel	Average	3.00	8.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74
Building Construction	Tractors/Loaders/Backhoes	Diesel	Average	3.00	7.00	84.0	0.37
Building Construction	Welders	Diesel	Average	1.00	8.00	46.0	0.45
Paving	Pavers	Diesel	Average	2.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Average	2.00	8.00	89.0	0.36
Paving	Rollers	Diesel	Average	2.00	8.00	36.0	0.38
Architectural Coating	Air Compressors	Diesel	Average	1.00	6.00	37.0	0.48

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Site Preparation	—	—	—	—
Site Preparation	Worker	17.5	12.8	LDA,LDT1,LDT2
Site Preparation	Vendor	18.0	8.33	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	1.00	2.90	HHDT
Grading	—	—	—	—

Grading	Worker	20.0	12.8	LDA,LDT1,LDT2
Grading	Vendor	20.0	8.33	HHDT,MHDT
Grading	Hauling	0.00	20.0	HHDT
Grading	Onsite truck	1.00	3.30	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	2.78	12.8	LDA,LDT1,LDT2
Building Construction	Vendor	1.43	8.33	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	0.00	0.00	HHDT
Paving	—	—	—	—
Paving	Worker	15.0	12.8	LDA,LDT1,LDT2
Paving	Vendor	0.00	8.33	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	0.00	0.00	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	0.56	12.8	LDA,LDT1,LDT2
Architectural Coating	Vendor	0.00	8.33	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	0.00	0.00	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Control Strategies Applied	PM10 Reduction	PM2.5 Reduction
Water unpaved roads twice daily	55%	55%
Limit vehicle speeds on unpaved roads to 25 mph	44%	44%
Sweep paved roads once per month	9%	9%

5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
Architectural Coating	0.00	0.00	26,100	8,700	25,940

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (Cubic Yards)	Material Exported (Cubic Yards)	Acres Graded (acres)	Material Demolished (sq. ft.)	Acres Paved (acres)
Site Preparation	0.00	0.00	15.0	0.00	—
Grading	0.00	0.00	90.0	0.00	—
Paving	0.00	0.00	0.00	0.00	9.92

5.6.2. Construction Earthmoving Control Strategies

Control Strategies Applied	Frequency (per day)	PM10 Reduction	PM2.5 Reduction
Water Exposed Area	2	61%	61%

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
City Park	0.00	0%
Government Office Building	0.00	0%
Parking Lot	6.65	100%
Other Non-Asphalt Surfaces	3.28	0%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2024	0.00	444	0.00	0.00
2025	0.00	444	0.00	0.00

5.9. Operational Mobile Sources

5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
City Park	104	109	96.9	37,837	1,303	1,366	1,216	474,381
Government Office Building	14.0	14.0	14.0	5,113	176	176	176	64,099
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
0	0.00	26,100	8,700	25,940

5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00

Summer Days	day/yr	250
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5.11. Operational Energy Consumption

5.11.1. Unmitigated

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

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
City Park	83,251	444	0.0000	0.0000	373,668
Government Office Building	151,756	444	0.0000	0.0000	240,004
Parking Lot	253,628	444	0.0000	0.0000	0.00
Other Non-Asphalt Surfaces	0.00	444	0.0000	0.0000	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
City Park	5,145,444	5,549,499
Government Office Building	1,728,339	0.00
Parking Lot	0.00	0.00
Other Non-Asphalt Surfaces	0.00	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
City Park	0.71	—
Government Office Building	8.09	—

Parking Lot	0.00	—
Other Non-Asphalt Surfaces	0.00	—

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
City Park	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
City Park	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00
Government Office Building	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
Government Office Building	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
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5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor
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5.16.2. Process Boilers

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

Equipment Type	Fuel Type
—	—

8. User Changes to Default Data

Screen	Justification
Land Use	Updated to specify recreational building square footage
Construction: Construction Phases	Updated to account for overlapping construction schedule
Construction: Architectural Coatings	Corrections for parking area?
Operations: Vehicle Data	Updated to reflect ITE Manual Trip Rates
Characteristics: Utility Information	444 CO2e per MWh delivered, as reported by SCE in their 2022 sustainability report.
Construction: Electricity	SCE 2022 Sus Report
Operations: Energy Use	City Park updated to match Racquet Club defaults
Operations: Water and Waste Water	City Park indoor water use updated to match Racquet Club default rate

Ronald Reagan Park (WILD-01.6) On-site Mobile Sources Only Custom Report

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5.9. Operational Mobile Sources

5.9.1. Unmitigated

8. User Changes to Default Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Ronald Reagan Park (WILD-01.6) On-site Mobile Sources Only
Operational Year	2025
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	9.20
Location	33.607774499327746, -117.24324112153622
County	Riverside-South Coast
City	Wildomar
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5536
EDFZ	11
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.14

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
City Park	8.23	Acre	0.00	0.00	350,000	0.00	—	—

Government Office Building	8.70	1000sqft	0.20	8,700	0.00	0.00	—	—
Parking Lot	290	1000sqft	6.65	0.00	0.00	0.00	—	—
Other Non-Asphalt Surfaces	143	1000sqft	3.28	0.00	0.00	0.00	—	—

2. Emissions Summary

2.5. Operations Emissions by Sector, Unmitigated

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

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.43	0.42	0.11	0.78	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	43.6	43.6	0.02	0.01	0.08	47.0
Area	0.07	0.74	< 0.005	0.38	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.56	1.56	< 0.005	< 0.005	—	1.56
Energy	0.01	< 0.005	0.06	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	668	668	0.04	< 0.005	—	670
Water	—	—	—	—	—	—	—	—	—	—	—	3.31	60.1	63.4	0.34	0.01	—	74.5
Waste	—	—	—	—	—	—	—	—	—	—	—	4.74	0.00	4.74	0.47	0.00	—	16.6
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.02	0.02
Total	0.50	1.17	0.18	1.21	< 0.005	0.01	0.02	0.02	0.01	< 0.005	0.01	8.05	773	781	0.88	0.02	0.10	810
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.39	0.38	0.12	0.88	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	42.6	42.6	0.02	0.01	< 0.005	46.1
Area	—	0.68	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.01	< 0.005	0.06	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	668	668	0.04	< 0.005	—	670
Water	—	—	—	—	—	—	—	—	—	—	—	3.31	60.1	63.4	0.34	0.01	—	74.5
Waste	—	—	—	—	—	—	—	—	—	—	—	4.74	0.00	4.74	0.47	0.00	—	16.6

Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.02	0.02
Total	0.40	1.07	0.18	0.94	< 0.005	0.01	0.02	0.02	0.01	< 0.005	0.01	8.05	770	779	0.88	0.02	0.02	807
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.37	0.36	0.11	0.85	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	—	40.9	40.9	0.02	0.01	0.03	44.3
Area	0.05	0.72	< 0.005	0.26	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.07	1.07	< 0.005	< 0.005	—	1.07
Energy	0.01	< 0.005	0.06	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	668	668	0.04	< 0.005	—	670
Water	—	—	—	—	—	—	—	—	—	—	—	3.31	60.1	63.4	0.34	0.01	—	74.5
Waste	—	—	—	—	—	—	—	—	—	—	—	4.74	0.00	4.74	0.47	0.00	—	16.6
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.02	0.02
Total	0.43	1.09	0.18	1.16	< 0.005	0.01	0.02	0.02	0.01	< 0.005	0.01	8.05	770	778	0.88	0.02	0.05	807
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.07	0.07	0.02	0.16	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	6.78	6.78	< 0.005	< 0.005	0.01	7.33
Area	0.01	0.13	< 0.005	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.18	0.18	< 0.005	< 0.005	—	0.18
Energy	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	111	111	0.01	< 0.005	—	111
Water	—	—	—	—	—	—	—	—	—	—	—	0.55	9.95	10.5	0.06	< 0.005	—	12.3
Waste	—	—	—	—	—	—	—	—	—	—	—	0.79	0.00	0.79	0.08	0.00	—	2.75
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	< 0.005	< 0.005
Total	0.08	0.20	0.03	0.21	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	1.33	127	129	0.15	< 0.005	0.01	134

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
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Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
City Park	0.38	0.37	0.10	0.69	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	—	38.6	38.6	0.02	0.01	0.07	41.6
Government Office Building	0.05	0.05	0.01	0.09	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	4.97	4.97	< 0.005	< 0.005	0.01	5.35
Parking Lot	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	0.00
Other Non-Asphalt Surfaces	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	0.00
Total	0.43	0.42	0.11	0.78	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	43.6	43.6	0.02	0.01	0.08	47.0
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
City Park	0.35	0.34	0.11	0.78	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	—	37.8	37.8	0.02	0.01	< 0.005	40.8
Government Office Building	0.04	0.04	0.01	0.10	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	4.85	4.85	< 0.005	< 0.005	< 0.005	5.25
Parking Lot	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	0.00
Other Non-Asphalt Surfaces	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	0.00
Total	0.39	0.38	0.12	0.88	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	42.6	42.6	0.02	0.01	< 0.005	46.1
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
City Park	0.06	0.06	0.02	0.14	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	5.97	5.97	< 0.005	< 0.005	< 0.005	6.46
Government Office Building	0.01	0.01	< 0.005	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.81	0.81	< 0.005	< 0.005	< 0.005	0.87

Parking Lot	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	0.00
Other Non-Asphalt Surfaces	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	0.00
Total	0.07	0.07	0.02	0.16	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	6.78	6.78	< 0.005	< 0.005	0.01	7.33

5. Activity Data

5.9. Operational Mobile Sources

5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMt/Weekday	VMt/Saturday	VMt/Sunday	VMt/Year
City Park	104	109	96.9	37,837	20.8	21.8	19.4	7,567
Government Office Building	14.0	14.0	14.0	5,113	2.80	2.80	2.80	1,023
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

8. User Changes to Default Data

Screen	Justification
Land Use	Updated to specify recreational building square footage
Construction: Construction Phases	Updated to account for overlapping construction schedule
Construction: Architectural Coatings	Corrections for parking area?
Operations: Vehicle Data	Updated to reflect ITE Manual Trip Rates, Onsite Mobile Emissions Only (0.2 mi on-site distance)
Characteristics: Utility Information	—
Construction: Electricity	SCE 2022 Sus Report

Operations: Energy Use	—
Operations: Water and Waste Water	—

Appendix 2.3
Emissions Calculations
Worksheet

Regional Construction Emissions Worksheet:

3.1. Site Preparation (2024) - Unmitigated		VOC	NOx	CO	SO ₂	PM10 Total	PM2.5Total
Onsite	Winter						
	Off-Road Equipment	3.65	36.00	32.90	0.05	1.60	1.47
	Dust From Material Movement	0.00	0.00	0.00	0.00	7.67	3.94
	Onsite truck	0.01	0.02	0.01	0.01	1.05	0.11
	Total	3.66	36.02	32.91	0.06	10.32	5.52
Offsite	Worker	0.08	0.07	0.82	0	0.16	0.04
	Vendor	0.01	0.58	0.19	0.005	0.13	0.04
	Hauling	0	0	0	0	0	0
	Total	0.09	0.65	1.01	0.01	0.29	0.08
TOTAL		3.75	36.67	33.92	0.06	10.61	5.60
TOTAL		3.75	36.67	33.92	0.06	10.61	5.60
3.3. Grading (2024) - Unmitigated		VOC	NOx	CO	SO ₂	PM10 Total	PM2.5Total
Onsite	Winter						
	Off-Road Equipment	3.52	34.3	30.2	0.06	1.45	1.33
	Dust From Material Movement	0	0	0	0	3.59	1.42
	Onsite truck	0.005	0.03	0.01	0.005	1.19	0.12
	Total	3.53	34.33	30.21	0.07	6.23	2.87
Offsite	Worker	0.09	0.08	0.93	0	0.18	0.04
	Vendor	0.02	0.64	0.21	0.005	0.15	0.05
	Hauling	0	0	0	0	0	0
	Total	0.11	0.72	1.14	0.01	0.33	0.09
TOTAL		3.64	35.05	31.35	0.07	6.56	2.96
TOTAL		3.64	35.05	31.35	0.07	6.56	2.96

3.5. Building Construction (2024) - Unmitigated			VOC	NOx	CO	SO ₂	PM10 Total	PM2.5Total
Onsite	Summer							
	Off-Road Equipment		1.2	11.2	13.1	0.02	0.5	0.46
	Onsite truck		0	0	0	0	0	0
	Total		1.20	11.20	13.10	0.02	0.50	0.46
Offsite								
	Worker		0.01	0.01	0.17	0	0.03	0.01
	Vendor		0.005	0.04	0.01	0.005	0.01	0.005
	Hauling		0	0	0	0	0	0
	Total		0.02	0.05	0.18	0.01	0.04	0.02
TOTAL			1.22	11.25	13.28	0.03	0.54	0.48
Onsite	Winter							
	Off-Road Equipment		1.2	11.2	13.1	0.02	0.5	0.46
	Onsite truck		0	0	0	0	0	0
	Total		1.20	11.20	13.10	0.02	0.50	0.46
Offsite								
	Worker		0.01	0.01	0.13	0	0.03	0.01
	Vendor		0.005	0.05	0.01	0.005	0.01	0.005
	Hauling		0	0	0	0	0	0
	Total		0.02	0.06	0.14	0.01	0.04	0.02
TOTAL			1.22	11.26	13.24	0.03	0.54	0.48
Onsite	MAX							
	Off-Road Equipment		1.20	11.20	13.10	0.02	0.50	0.46
	Onsite truck		0.00	0.00	0.00	0.00	0.00	0.00
	Total		1.20	11.20	13.10	0.02	0.50	0.46
Offsite								
	Worker		0.01	0.01	0.17	0.00	0.03	0.01
	Vendor		0.01	0.05	0.01	0.01	0.01	0.01
	Hauling		0.00	0.00	0.00	0.00	0.00	0.00
	Total		0.02	0.06	0.18	0.01	0.04	0.02
TOTAL			1.22	11.26	13.28	0.03	0.54	0.48

3.7. Building Construction (2025) - Unmitigated			VOC	NOx	CO	SO ₂	PM10 Total	PM2.5Total
Onsite	Summer							
	Off-Road Equipment		1.13	10.4	13	0.02	0.43	0.4
	Onsite truck		0	0	0	0	0	0
	Total		1.13	10.40	13.00	0.02	0.43	0.40
Offsite								
	Worker		0.01	0.01	0.16	0	0.03	0.01
	Vendor		0.005	0.04	0.01	0.005	0.01	0.005
	Hauling		0	0	0	0	0	0
	Total		0.02	0.05	0.17	0.01	0.04	0.02
TOTAL			1.15	10.45	13.17	0.03	0.47	0.42
Onsite	Winter							
	Off-Road Equipment		1.13	10.4	13	0.02	0.43	0.4
	Onsite truck		0	0	0	0	0	0
	Total		1.13	10.40	13.00	0.02	0.43	0.40
Offsite								
	Worker		0.01	0.01	0.12	0	0.03	0.01
	Vendor		0.005	0.04	0.01	0.005	0.01	0.005
	Hauling		0	0	0	0	0	0
	Total		0.02	0.05	0.13	0.01	0.04	0.02
TOTAL			1.15	10.45	13.13	0.03	0.47	0.42
Onsite	MAX							
	Off-Road Equipment		1.13	10.40	13.00	0.02	0.43	0.40
	Onsite truck		0.00	0.00	0.00	0.00	0.00	0.00
	Total		1.13	10.40	13.00	0.02	0.43	0.40
Offsite								
	Worker		0.01	0.01	0.16	0.00	0.03	0.01
	Vendor		0.01	0.04	0.01	0.01	0.01	0.01
	Hauling		0.00	0.00	0.00	0.00	0.00	0.00
	Total		0.02	0.05	0.17	0.01	0.04	0.02
TOTAL			1.15	10.45	13.17	0.03	0.47	0.42

Building Construction (TOTAL)		VOC	NOx	CO	SO ₂	PM10 Total	PM2.5Total
Onsite	MAX						
	Off-Road Equipment	2.33	21.60	26.10	0.04	0.93	0.86
	Dust From Material Movement	0.00	0.00	0.00	0.00	0.00	0.00
	Total	2.33	21.60	26.10	0.04	0.93	0.86
Offsite							
	Worker	0.02	0.02	0.33	0.00	0.06	0.02
	Vendor	0.01	0.09	0.02	0.01	0.02	0.01
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Total	0.03	0.11	0.35	0.01	0.08	0.03
TOTAL		2.36	21.71	26.45	0.05	1.01	0.89
3.9. Paving (2025) - Unmitigated		VOC	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	Summer						
	Off-Road Equipment	0.8	7.45	9.98	0.01	0.35	0.32
	Paving	0.87	0	0	0	0	0
	Total	1.67	7.45	9.98	0.01	0.35	0.32
Offsite							
	Worker	0.06	0.05	0.84	0	0.14	0.03
	Vendor	0	0	0	0	0	0
	Hauling	0	0	0	0	0	0
	Total	0.06	0.05	0.84	0.00	0.14	0.03
TOTAL		1.73	7.50	10.82	0.01	0.49	0.35
TOTAL		1.73	7.50	10.82	0.01	0.49	0.35

3.11. Architectural Coating (2025) - Unmitigated		VOC	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		Summer					
	Off-Road Equipment	0.13	0.88	1.14	0.005	0.03	0.03
	Architectural Coatings	14.1	0	0	0	0	0
	Onsite truck	0	0	0	0	0	0
	Total	14.23	0.88	1.14	0.01	0.03	0.03
Offsite	Worker	0.005	0.005	0.03	0	0.01	0.005
	Vendor	0	0	0	0	0	0
	Hauling	0	0	0	0	0	0
	Total	0.01	0.01	0.03	0.00	0.01	0.01
TOTAL		14.24	0.89	1.17	0.01	0.04	0.04
TOTAL		14.24	0.89	1.17	0.01	0.05	0.04

Construction Summary

Maximum Daily (Pounds; Onsite + Offsite)	VOC	NOx	CO	SO2	PM10 Total	PM2.5 Total
<i>3.1. Site Preparation (2024) - Unmitigated</i>	3.75	36.67	33.92	0.06	10.61	5.60
<i>3.3. Grading (2024) - Unmitigated</i>	3.64	35.05	31.35	0.07	6.56	2.96
<i>3.5. Building Construction (2024) - Unmitigated</i>	1.22	11.26	13.28	0.03	0.54	0.48
<i>3.7. Building Construction (2025) - Unmitigated</i>	1.15	10.45	13.17	0.03	0.47	0.42
<i>3.9. Paving (2025) - Unmitigated</i>	1.73	7.50	10.82	0.01	0.49	0.35
<i>3.11. Architectural Coating (2025) - Unmitigated</i>	14.24	0.89	1.17	0.01	0.05	0.04
Overlapping Phases Total¹	17.11	18.84	25.16	0.04	1.01	0.80
MAX DAILY	17	37	34	0	11	6
Regional Thresholds	75	100	550	150	150	55
Exceeds Thresholds?	No	No	No	No	No	No

Notes:

1. Building Construction, Paving and Architectural Coating are expected to overlap

Maximum Daily (Pounds; Onsite Only)	VOC	NOx	CO	SO2	PM10 Total	PM2.5 Total
<i>3.1. Site Preparation (2024) - Unmitigated</i>	3.66	36.02	32.91	0.06	10.32	5.52
<i>3.3. Grading (2024) - Unmitigated</i>	3.53	34.33	30.21	0.07	6.23	2.87
<i>3.5. Building Construction (2024) - Unmitigated</i>	1.20	11.20	13.10	0.02	0.50	0.46
<i>3.7. Building Construction (2025) - Unmitigated</i>	1.13	10.40	13.00	0.02	0.43	0.40
<i>3.9. Paving (2025) - Unmitigated</i>	1.67	7.45	9.98	0.01	0.35	0.32
<i>3.11. Architectural Coating (2025) - Unmitigated</i>	14.23	0.88	1.14	0.01	0.03	0.03
Overlapping Phases Total¹	17.03	18.73	24.12	0.04	0.81	0.75
MAX ONSITE DAILY	17	36	33	0	10	6
Localized Significance Threshold²	N/A	371	1,965	N/A	13	8
Exceeds LSTs?	N/A	No	No	N/A	No	No

Notes:

1. Building Construction, Paving and Architectural Coating are expected to overlap

2. Localized significance thresholds above correspond with SRA 25 on a 5-acre site at 25 meters.

Operation Emissions Worksheet

¹ CalEEMod, Version 2022.1

Regional Operational Emissions (pounds/day)

Summer

	VOC	NOx	CO	SO2	PM10 Total	PM2.5 Total
Mobile	0.55	0.57	5.20	0.01	1.10	0.29
Area	0.74	0.01	0.38	0.01	0.01	0.01
Energy	0.01	0.16	0.14	0.01	0.01	0.01
Total	1.30	0.74	5.72	0.02	1.12	0.31

Winter

	VOC	NOx	CO	SO2	PM10 Total	PM2.5 Total
Mobile	0.51	0.61	4.33	0.01	1.10	0.29
Area	0.68	0.00	0.00	0.00	0.00	0.00
Energy	0.01	0.16	0.14	0.01	0.01	0.01
Total	1.20	0.77	4.47	0.02	1.11	0.30

Max Daily

	VOC	NOx	CO	SO2	PM10 Total	PM2.5 Total
Mobile	0.55	0.61	5.20	0.01	1.10	0.29
Area	0.74	0.01	0.38	0.01	0.01	0.01
Energy	0.01	0.16	0.14	0.01	0.01	0.01
Total	1.30	0.77	5.72	0.02	1.12	0.31

Regional Thresholds (lb/day)

Exceeds Thresholds?	No	No	No	No	No	No
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Localized Operational Emissions (pounds/day) On-site Only

Max Daily

	VOC	NOx	CO	SO2	PM10 Total	PM2.5 Total
Mobile	0.42	0.12	0.88	0.01	0.02	0.01
Area	0.74	0.01	0.38	0.01	0.01	0.01
Energy	0.01	0.16	0.14	0.01	0.01	0.01
Total	1.17	0.29	1.40	0.02	0.04	0.03
LSTs (lb/day)	N/A	371	1,965	N/A	4	2
Exceeds Thresholds?	No	No	No	No	No	No

GHG Emissions Inventory

Proposed Project Buildout

Construction¹

Totals

	MTCO ₂ e	%
Year 2024	351	73%
Year 2025	130	27%
Total Construction	481	100%
Total 30-Year Amortization ²	16	

Notes

¹ CalEEMod, Version 2022.1

² Total construction emissions are amortized over 30 years per SCAQMD methodology; SCAQMD. 2009, November 19. Greenhouse Gases (GHG) CEQA Significance Thresholds Working Group Meeting 14. [http://www.aqmd.gov/docs/default-source/ceqa/handbook/greenhouse-gases-\(ghg\)-ceqa-significance-thresholds/year-2008-2009/ghg-meeting-14/ghg-meeting-14-main-presentation.pdf?sfvrsn=2](http://www.aqmd.gov/docs/default-source/ceqa/handbook/greenhouse-gases-(ghg)-ceqa-significance-thresholds/year-2008-2009/ghg-meeting-14/ghg-meeting-14-main-presentation.pdf?sfvrsn=2).

Operations¹

	MTCO ₂ e/Year ²	%
	Operations	
Mobile	200.00	53%
Area	0.18	0%
Energy	131.00	35%
Water	24.70	7%
Solid Waste	2.75	1%
Refrigerants	0	0%
30-Year Construction Amortization	16.03	4%
Total	375	100%

South Coast AQMD Bright-Line Screening Threshold	3,000
Exceed Threshold?	No

Notes

¹ CalEEMod, Version 2022.1

² MTCO₂e=metric tons of carbon dioxide equivalent.