

Appendix A

Emission Calculations

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Concrete Crushing Emissions - Unmitigated

Emission Factors⁽¹⁾	
Crushing	0.0012 lb/ton
Screening	0.0022 lb/ton
Conveyor transport points	0.00014 lb/ton
Density of concrete	2400 kg/m ³
Density of concrete rubble (90% concrete/10% air)	2160 kg/m ³
Density of concrete rubble (90% concrete/10% air)	2.05 ton/yd ³
Amount Processed	
Recycled concrete ⁽²⁾	3300 yd ³
Recycled concrete	6773 tons
Total Processed	3300 yr ³ /mo
Processed per day (10 day avg)	330 yd ³ /day
Processed per day (10 day avg)	677 ton/day
Machine Capability	
Peak processing power ⁽³⁾	150 ton/hr
Peak processing power ⁽⁴⁾	1200 ton/day
Processing Fugitive PM10	
Crushing - Average Day	0.8 lb/day
Screening - Average Day	1.5 lb/day
Conveyor - Average Day ⁽⁵⁾	0.4 lb/day
Crushing - Peak Day ⁽⁶⁾	1.4 lb/day
Screening - Peak Day ⁽⁶⁾	2.6 lb/day
Conveyor - Peak Day ⁽⁵⁾⁽⁶⁾	0.7 lb/day
Total Average PM10 from Concrete Crushing	2.7 lb/day
Total Average PM2.5 from Concrete Crushing ⁽⁷⁾	0.8 lb/day
Total Peak PM10 from Concrete Crushing	4.8 lb/day
Total Peak PM2.5 from Concrete Crushing ⁽⁷⁾	1.4 lb/day
Stockpiling Fugitive PM10	
Stockpiling - Average Day	2.4 lb/day
Stockpiling - Peak Day ⁽⁴⁾	4.2 lb/day
Total Average PM10 from stockpiling	2.4 lb/day
Total Average PM2.5 from stockpiling ⁽⁷⁾	0.5 lb/day
Total Peak PM10 from stockpiling	4.2 lb/day
Total Peak PM2.5 from stockpiling ⁽⁷⁾	0.9 lb/day
Total PM Emissions	
Total Peak PM10	9.0 lb/day
Total Peak PM2.5 ⁽⁷⁾	2.3 lb/day

Notes:

- (1) Based on Section 11.19.2 of EPA's Compilation of Air Pollutant Emission Factors (AP-42).
- (2) Assumes crushing operations occur in one day. All processed material will be used onsite.
- (3) No data available from applicant. Data based on Betterroads.com (<http://obr.gcnpublishing.com/articles/NewProds/apr04bid.htm>)
- (4) Assumes 8 hour of peak daily operation.
- (5) Assumes four transfer points.
- (6) Based on peak processing power.
- (7) Based on the AQMD Final Methodology to Calculate PM2.5 and PM2.5 Significance Thresholds (2006).
 $PM_{2.5} = PM_{10} * 0.30$ for Processing. $PM_{2.5} = PM_{10} * 0.208$ for Fugitives.
- (8) Based on SCAQMD CEQA Air Quality Handbook Table A9-9 @ 61% water control.

Concrete Crushing Emissions - Mitigated

Emission Factors⁽¹⁾	
Crushing	0.00054 lb/ton
Screening	0.00074 lb/ton
Conveyor transport points	0.000046 lb/ton
Density of concrete	2400 kg/m ³
Density of concrete rubble (90% concrete/10% air)	2160 kg/m ³
Density of concrete rubble (90% concrete/10% air)	2.05 ton/yd ³
Amount Processed	
Recycled concrete ⁽²⁾	3300 yd ³
Recycled concrete	6773 tons
Total Processed	3300 yr ³ /mo
Processed per day (10 day avg)	330 yd ³ /day
Processed per day (10 day avg)	677 ton/day
Machine Capability	
Peak processing power ⁽³⁾	150 ton/hr
Peak processing power ⁽⁴⁾	1200 ton/day
Processing Fugitive PM10	
Crushing - Average Day	0.4 lb/day
Screening - Average Day	0.5 lb/day
Conveyor - Average Day ⁽⁵⁾	0.1 lb/day
Crushing - Peak Day ⁽⁶⁾	0.6 lb/day
Screening - Peak Day ⁽⁶⁾	0.9 lb/day
Conveyor - Peak Day ⁽⁵⁾⁽⁶⁾	0.2 lb/day
Total Average PM10 from Concrete Crushing	1.0 lb/day
Total Average PM2.5 from Concrete Crushing ⁽⁷⁾	0.3 lb/day
Total Peak PM10 from Concrete Crushing	1.8 lb/day
Total Peak PM2.5 from Concrete Crushing ⁽⁷⁾	0.5 lb/day
Stockpiling Fugitive PM10	
Stockpiling - Average Day ⁽⁸⁾	0.9 lb/day
Stockpiling - Peak Day ⁽⁴⁾⁽⁸⁾	1.6 lb/day
Total Average PM10 from stockpiling	0.9 lb/day
Total Average PM2.5 from stockpiling ⁽⁷⁾	0.2 lb/day
Total Peak PM10 from stockpiling	1.6 lb/day
Total Peak PM2.5 from stockpiling ⁽⁷⁾	0.3 lb/day
Total PM Emissions	
Total Peak PM10	3.4 lb/day
Total Peak PM2.5 ⁽⁷⁾	0.9 lb/day

Notes:

- (1) Based on Section 11.19.2 of EPA's Compilation of Air Pollutant Emission Factors (AP-42).
- (2) Assumes crushing operations occur in one day. All processed material will be used onsite.
- (3) No data available from applicant. Data based on Betterroads.com (<http://obr.gcnpublishing.com/articles/NewProds/apr04bid.htm>)
- (4) Assumes 8 hour of peak daily operation.
- (5) Assumes four transfer points.
- (6) Based on peak processing power.
- (7) Based on the AQMD Final Methodology to Calculate PM2.5 and PM2.5 Significance Thresholds (2006).
 $PM2.5 = PM10 * 0.30$ for Processing. $PM2.5 = PM10 * 0.208$ for Fugitives.
- (8) Based on SCAQMD CEQA Air Quality Handbook Table A9-9 @ 61% water control.

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1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	13.00	1000sqft	0.30	13,000.00	0
Other Asphalt Surfaces	4.10	Acre	4.10	178,596.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	9			Operational Year	2019

Utility Company Southern California Edison

CO2 Intensity (lb/MW/hr)	702.44	CH4 Intensity (lb/MW/hr)	0.029	N2O Intensity (lb/MW/hr)	0.006
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1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Area of pipe laydown is 4.1 acre.

Construction Phase - No construction. Baseline.

Off-road Equipment - No construction.

Demolition -

Vehicle Trips - 15 trucks per day. 10 workers.

Fleet Mix - 10 workers and 15 HHDT. 40/60 split.

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Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblTripsAndVMT	WorkerTripNumber	0.00	15.00
tblVehicleTrips	ST_TR	1.68	2.00
tblVehicleTrips	SU_TR	1.68	2.00
tblVehicleTrips	WD_TR	1.68	2.00

2.0 Emissions Summary

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Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
		Highest		

**2.2 Overall Operational
Unmitigated Operational**

Category	tons/yr										MT/yr					
	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
Area	0.0671	0.0000	2.2000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	4.2000e-004	4.2000e-004	0.0000	0.0000	4.5000e-004
Energy	6.0000e-005	5.5000e-004	4.7000e-004	0.0000	4.0000e-005	4.0000e-005	4.0000e-005	4.0000e-005	4.0000e-005	4.0000e-005	0.0000	16.7577	16.7577	6.8000e-004	1.5000e-004	16.8190
Mobile	0.0109	0.0635	0.1621	5.4000e-004	0.0423	6.2000e-004	0.0430	0.0114	5.9000e-004	0.0119	0.0000	49.6420	49.6420	2.5900e-003	0.0000	49.7067
Waste						0.0000	0.0000		0.0000	0.0000	2.4806	0.0000	2.4806	0.1466	0.0000	6.1455
Water						0.0000	0.0000		0.0000	0.0000	0.9537	12.4722	13.4260	0.0985	2.4200e-003	16.6089
Total	0.0780	0.0641	0.1628	5.4000e-004	0.0423	6.6000e-004	0.0430	0.0114	6.3000e-004	0.0120	3.4343	78.8724	82.3066	0.2483	2.5700e-003	89.2805

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2.2 Overall Operational Mitigated Operational

Category	tons/yr											MT/yr					
	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	
Area	0.0671	0.0000	2.2000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	4.2000e-004	4.2000e-004	0.0000	0.0000	0.0000	4.5000e-004
Energy	6.0000e-005	5.5000e-004	4.7000e-004	0.0000	4.0000e-005	4.0000e-005	4.0000e-005	4.0000e-005	4.0000e-005	4.0000e-005	0.0000	16.7577	16.7577	6.8000e-004	1.5000e-004	0.0000	16.8190
Mobile	0.0109	0.0635	0.1621	5.4000e-004	0.0423	6.2000e-004	0.0430	0.0114	5.9000e-004	0.0119	0.0000	49.6420	49.6420	2.5900e-003	0.0000	0.0000	49.7067
Waste						0.0000	0.0000	0.0000	0.0000	0.0000	2.4806	0.0000	2.4806	0.1466	0.0000	0.0000	6.1455
Water						0.0000	0.0000	0.0000	0.0000	0.0000	0.9537	12.4722	13.4260	0.0985	2.4200e-003	0.0000	16.6089
Total	0.0780	0.0641	0.1628	5.4000e-004	0.0423	6.6000e-004	0.0430	0.0114	6.3000e-004	0.0120	3.4343	78.8724	82.3066	0.2483	2.5700e-003	0.0000	89.2805

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3.0 Construction Detail

Percent Reduction	tons/yr											MT/yr				
	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
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	No Construction - Baseline	Demolition	1/11/2019	1/10/2019	5	0	

Acres of Grading (Site Preparation Phase): 0

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Acres of Grading (Grading Phase): 0

Acres of Paving: 4.1

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
No Construction - Baseline	Concrete/Industrial Saws	0	8.00	81	0.73
No Construction - Baseline	Excavators	0	8.00	158	0.38
No Construction - Baseline	Rubber Tired Dozers	0	8.00	247	0.40

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
No Construction - Resealing	0	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

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3.2 No Construction - Baseline - 2019

Unmitigated Construction On-Site

Category	tons/yr										MT/yr					
	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
Fugitive Dust	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
Off-Road	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
Total	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

Unmitigated Construction Off-Site

Category	tons/yr										MT/yr					
	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
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	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
Total	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

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3.2 No Construction - Baseline - 2019

Mitigated Construction On-Site

Category	tons/yr										MT/yr					
	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
Fugitive Dust	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
Off-Road	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
Total	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

Mitigated Construction Off-Site

Category	tons/yr										MT/yr					
	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
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	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
Total	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

4.0 Operational Detail - Mobile

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4.1 Mitigation Measures Mobile

Category	tons/yr											MT/yr				
	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
Mitigated	0.0109	0.0635	0.1621	5.4000e-004	0.0423	6.2000e-004	0.0430	0.0114	5.9000e-004	0.0119	0.0000	49.6420	49.6420	2.5900e-003	0.0000	49.7067
Unmitigated	0.0109	0.0635	0.1621	5.4000e-004	0.0423	6.2000e-004	0.0430	0.0114	5.9000e-004	0.0119	0.0000	49.6420	49.6420	2.5900e-003	0.0000	49.7067

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4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated Annual VMT	Mitigated Annual VMT
	Weekday	Saturday	Sunday		
Other Asphalt Surfaces	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	26.00	26.00	26.00	111,429	111,429
Total	26.00	26.00	26.00	111,429	111,429

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	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
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	16.60	8.40	6.90	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

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Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.546418	0.044132	0.199182	0.124467	0.017484	0.005870	0.020172	0.031831	0.001999	0.002027	0.004724	0.000704	0.000991
Unrefrigerated Warehouse-No Rail	0.546418	0.044132	0.199182	0.124467	0.017484	0.005870	0.020172	0.031831	0.001999	0.002027	0.004724	0.000704	0.000991

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Category	tons/yr										MT/yr					
	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
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	16.1541	16.1541	6.7000e-004	1.4000e-004	16.2119
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	16.1541	16.1541	6.7000e-004	1.4000e-004	16.2119
NaturalGas Mitigated	6.0000e-005	5.5000e-004	4.7000e-004	0.0000		4.0000e-005	4.0000e-005	4.0000e-005	4.0000e-005	4.0000e-005	0.0000	0.6035	0.6035	1.0000e-005	1.0000e-005	0.6071
NaturalGas Unmitigated	6.0000e-005	5.5000e-004	4.7000e-004	0.0000		4.0000e-005	4.0000e-005	4.0000e-005	4.0000e-005	4.0000e-005	0.0000	0.6035	0.6035	1.0000e-005	1.0000e-005	0.6071

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5.2 Energy by Land Use - Natural Gas

Unmitigated

Land Use	Natural Gas Use kBTU/yr	tons/yr										MT/yr					CO ₂ e	
		ROG	NOx	CO	SO ₂	Fugitive PM ₁₀	Exhaust PM ₁₀	PM ₁₀ Total	Fugitive PM _{2.5}	Exhaust PM _{2.5}	PM _{2.5} Total	Bio- CO ₂	NBio- CO ₂	Total CO ₂	CH ₄	N ₂ O		
Other Asphalt Surfaces	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	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	11310	6.0000e-005	5.5000e-004	4.7000e-004	0.0000	4.0000e-005	4.0000e-005	4.0000e-005	4.0000e-005	4.0000e-005	4.0000e-005	0.0000	0.6035	1.0000e-005	1.0000e-005	1.0000e-005	0.6071	
Total		6.0000e-005	5.5000e-004	4.7000e-004	0.0000	4.0000e-005	4.0000e-005	4.0000e-005	4.0000e-005	4.0000e-005	4.0000e-005	0.0000	0.6035	1.0000e-005	1.0000e-005	1.0000e-005	0.6071	

Mitigated

Land Use	Natural Gas Use kBTU/yr	tons/yr										MT/yr					CO ₂ e	
		ROG	NOx	CO	SO ₂	Fugitive PM ₁₀	Exhaust PM ₁₀	PM ₁₀ Total	Fugitive PM _{2.5}	Exhaust PM _{2.5}	PM _{2.5} Total	Bio- CO ₂	NBio- CO ₂	Total CO ₂	CH ₄	N ₂ O		
Other Asphalt Surfaces	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	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	11310	6.0000e-005	5.5000e-004	4.7000e-004	0.0000	4.0000e-005	4.0000e-005	4.0000e-005	4.0000e-005	4.0000e-005	4.0000e-005	0.0000	0.6035	1.0000e-005	1.0000e-005	1.0000e-005	0.6071	
Total		6.0000e-005	5.5000e-004	4.7000e-004	0.0000	4.0000e-005	4.0000e-005	4.0000e-005	4.0000e-005	4.0000e-005	4.0000e-005	0.0000	0.6035	1.0000e-005	1.0000e-005	1.0000e-005	0.6071	

5.3 Energy by Land Use - Electricity

Unmitigated

Land Use	Electricity Use kWh/yr	Total CO2	CH4	N2O	CO2e
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	50700	16.1541	6.7000e-004	1.4000e-004	16.2119
Total		16.1541	6.7000e-004	1.4000e-004	16.2119

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Mitigated

Land Use	Electricity Use kWh/yr	Total CO2	CH4	N2O	CO2e
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	50700	16.1541	6.7000e-004	1.4000e-004	16.2119
Total		16.1541	6.7000e-004	1.4000e-004	16.2119

6.0 Area Detail

6.1 Mitigation Measures Area

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Category	tons/yr											MT/yr				
	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
Mitigated	0.0671	0.0000	2.2000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	4.2000e-004	4.2000e-004	0.0000	0.0000	4.5000e-004
Unmitigated	0.0671	0.0000	2.2000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	4.2000e-004	4.2000e-004	0.0000	0.0000	4.5000e-004

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6.2 Area by SubCategory

Unmitigated

SubCategory	tons/yr											MT/yr				
	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
Architectural Coating	8.5100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0585					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.0000e-005	0.0000	2.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	4.2000e-004	4.2000e-004	0.0000	0.0000	4.5000e-004
Total	0.0671	0.0000	2.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	4.2000e-004	4.2000e-004	0.0000	0.0000	4.5000e-004

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6.2 Area by SubCategory

Mitigated

SubCategory	tons/yr										MT/yr						
	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	
Architectural Coating	8.5100e-003					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0585					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.0000e-005	0.0000	2.2000e-004	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	4.2000e-004	4.2000e-004	0.0000	0.0000	0.0000	4.5000e-004
Total	0.0671	0.0000	2.2000e-004	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	4.2000e-004	4.2000e-004	0.0000	0.0000	0.0000	4.5000e-004

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7.0 Water Detail

7.1 Mitigation Measures Water

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	13.4260	0.0985	2.4200e-003	16.6089
Unmitigated	13.4260	0.0985	2.4200e-003	16.6089

7.2 Water by Land Use

Unmitigated

Land Use	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	3.00625 / 0	13.4260	0.0985	2.4200e-003	16.6089
Total		13.4260	0.0985	2.4200e-003	16.6089

7.2 Water by Land Use

Mitigated

Land Use	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
	Mgal	MT/yr			
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	3.00625 / 0	13.4260	0.0985	2.4200e-003	16.6089
Total		13.4260	0.0985	2.4200e-003	16.6089

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

Category/Year	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	2.4806	0.1466	0.0000	6.1455
Unmitigated	2.4806	0.1466	0.0000	6.1455

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8.2 Waste by Land Use

Unmitigated

Land Use	Waste Disposed tons	Total CO2	CH4	N2O	CO2e
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	12.22	2.4806	0.1466	0.0000	6.1455
Total		2.4806	0.1466	0.0000	6.1455

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Mitigated

Land Use	Waste Disposed tons	Total CO2	CH4	N2O	CO2e
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	12.22	2.4806	0.1466	0.0000	6.1455
Total		2.4806	0.1466	0.0000	6.1455

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
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Boilers

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

Equipment Type	Number
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11.0 Vegetation

3115 Terreno - Baseline - South Coast AQMD Air District, Summer

3115 Terreno - Baseline
South Coast AQMD Air District, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	13.00	1000sqft	0.30	13,000.00	0
Other Asphalt Surfaces	4.10	Acre	4.10	178,596.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	9			Operational Year	2019

Utility Company Southern California Edison

CO2 Intensity (lb/MW/hr)	702.44	CH4 Intensity (lb/MW/hr)	0.029	N2O Intensity (lb/MW/hr)	0.006
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1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Area of pipe laydown is 4.1 acre.

Construction Phase - No construction. Baseline.

Off-road Equipment - No construction.

Demolition -

Vehicle Trips - 15 trucks per day. 10 workers.

Fleet Mix - 10 workers and 15 HHDT. 40/60 split.

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Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblTripsAndVMT	WorkerTripNumber	0.00	15.00
tblVehicleTrips	ST_TR	1.68	2.00
tblVehicleTrips	SU_TR	1.68	2.00
tblVehicleTrips	WD_TR	1.68	2.00

2.0 Emissions Summary

3115 Terreno - Baseline - South Coast AQMD Air District, Summer

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

Year	lb/day																
	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	
2019	0.0000	0.0000	0.0000	0.0000	0.0000	1.3000e-003	0.0000	0.0000	1.2000e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	0.0000	0.0000	0.0000	0.0000	0.0000	1.3000e-003	0.0000	0.0000	1.2000e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Mitigated Construction

Year	lb/day																
	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	
2019	0.0000	0.0000	0.0000	0.0000	0.0000	1.3000e-003	0.0000	0.0000	1.2000e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	0.0000	0.0000	0.0000	0.0000	0.0000	1.3000e-003	0.0000	0.0000	1.2000e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Percent Reduction																
	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
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3115 Terreno - Baseline - South Coast AQMD Air District, Summer

2.2 Overall Operational
Unmitigated Operational

Category	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
lb/day																
Area	0.3675	2.0000e-005	1.7600e-003	0.0000	1.0000e-005	1.0000e-005	1.0000e-005	1.0000e-005	1.0000e-005	1.0000e-005	3.7400e-003	3.7400e-003	3.7400e-003	1.0000e-005	4.0000e-003	4.0000e-003
Energy	3.3000e-004	3.0400e-003	2.5500e-003	2.0000e-005	2.3000e-004	2.3000e-004	2.3000e-004	2.3000e-004	2.3000e-004	2.3000e-004	3.6455	3.6455	3.6455	7.0000e-005	7.0000e-005	3.6671
Mobile	0.0638	0.3329	0.9416	3.0900e-003	0.2369	3.4200e-003	0.2404	0.0634	3.2100e-003	0.0666	313.0940	313.0940	313.0940	0.0159	313.4904	313.4904
Total	0.4316	0.3359	0.9459	3.1100e-003	0.2369	3.6600e-003	0.2406	0.0634	3.4500e-003	0.0669	316.7432	316.7432	316.7432	0.0159	7.0000e-005	317.1615

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Mitigated Operational

Category	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
lb/day																
Area	0.3675	2.0000e-005	1.7600e-003	0.0000	1.0000e-005	1.0000e-005	1.0000e-005	1.0000e-005	1.0000e-005	1.0000e-005	3.7400e-003	3.7400e-003	3.7400e-003	1.0000e-005	4.0000e-003	4.0000e-003
Energy	3.3000e-004	3.0400e-003	2.5500e-003	2.0000e-005	2.3000e-004	2.3000e-004	2.3000e-004	2.3000e-004	2.3000e-004	2.3000e-004	3.6455	3.6455	3.6455	7.0000e-005	7.0000e-005	3.6671
Mobile	0.0638	0.3329	0.9416	3.0900e-003	0.2369	3.4200e-003	0.2404	0.0634	3.2100e-003	0.0666	313.0940	313.0940	313.0940	0.0159	313.4904	313.4904
Total	0.4316	0.3359	0.9459	3.1100e-003	0.2369	3.6600e-003	0.2406	0.0634	3.4500e-003	0.0669	316.7432	316.7432	316.7432	0.0159	7.0000e-005	317.1615

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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
0.00	0.00	0.00	0.00	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	No Construction - Baseline	Demolition	1/1/2019	1/10/2019	5	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 4.1

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
No Construction - Baseline	Concrete/Industrial Saws	0	8.00	81	0.73
No Construction - Baseline	Excavators	0	8.00	158	0.38
No Construction - Baseline	Rubber Tired Dozers	0	8.00	247	0.40

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
No Construction - Baseline	0	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3115 Terreno - Baseline - South Coast AQMD Air District, Summer

3.2 No Construction - Baseline - 2019

Mitigated Construction On-Site

Category	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
lb/day																
Fugitive Dust	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
Off-Road	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
Total	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

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Mitigated Construction Off-Site

Category	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
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	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	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
Total	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

4.0 Operational Detail - Mobile

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4.1 Mitigation Measures Mobile

Category	lb/day															
	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
Mitigated	0.0638	0.3329	0.9416	3.0900e-003	0.2369	3.4200e-003	0.2404	0.0634	3.2100e-003	0.0666	313.0940	313.0940	313.0940	0.0159		313.4904
Unmitigated	0.0638	0.3329	0.9416	3.0900e-003	0.2369	3.4200e-003	0.2404	0.0634	3.2100e-003	0.0666	313.0940	313.0940	313.0940	0.0159		313.4904

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4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated Annual VMT	Mitigated Annual VMT
	Weekday	Saturday	Sunday		
Other Asphalt Surfaces	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	26.00	26.00	26.00	111,429	111,429
Total	26.00	26.00	26.00	111,429	111,429

4.3 Trip Type Information

Land Use	Miles					Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-C	H-W or C-W	H-O or C-NW	H-S or C-C	H-O or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	16.60	8.40	6.90	59.00	41.00	0.00	41.00	41.00	92	5	3

4.4 Fleet Mix

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Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.546418	0.044132	0.199182	0.124467	0.017484	0.005870	0.020172	0.031831	0.001999	0.002027	0.004724	0.000704	0.000991
Unrefrigerated Warehouse-No Rail	0.546418	0.044132	0.199182	0.124467	0.017484	0.005870	0.020172	0.031831	0.001999	0.002027	0.004724	0.000704	0.000991

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Category	lb/day															
	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
NaturalGas Mitigated	3.3000e-004	3.0400e-003	2.5500e-003	2.0000e-005	2.3000e-004	2.3000e-004	2.3000e-004	2.3000e-004	2.3000e-004	2.3000e-004	3.6455	3.6455	3.6455	7.0000e-005	7.0000e-005	3.6671
NaturalGas Unmitigated	3.3000e-004	3.0400e-003	2.5500e-003	2.0000e-005	2.3000e-004	2.3000e-004	2.3000e-004	2.3000e-004	2.3000e-004	2.3000e-004	3.6455	3.6455	3.6455	7.0000e-005	7.0000e-005	3.6671

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5.2 Energy by Land Use - Natural Gas

Unmitigated

Land Use	Natural Gas Use kBTU/yr	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
lb/day																	
Other Asphalt Surfaces	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	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	30.9863	3.3000e-004	3.0400e-003	2.5500e-003	2.0000e-005	2.3000e-004	2.3000e-004	2.3000e-004	2.3000e-004	2.3000e-004	2.3000e-004	3.6455	3.6455	3.6455	7.0000e-005	7.0000e-005	3.6671
Total		3.3000e-004	3.0400e-003	2.5500e-003	2.0000e-005	2.3000e-004	2.3000e-004	2.3000e-004	2.3000e-004	2.3000e-004	2.3000e-004	3.6455	3.6455	3.6455	7.0000e-005	7.0000e-005	3.6671

Mitigated

Land Use	Natural Gas Use kBTU/yr	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
lb/day																	
Other Asphalt Surfaces	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	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0.0309863	3.3000e-004	3.0400e-003	2.5500e-003	2.0000e-005	2.3000e-004	2.3000e-004	2.3000e-004	2.3000e-004	2.3000e-004	2.3000e-004	3.6455	3.6455	3.6455	7.0000e-005	7.0000e-005	3.6671
Total		3.3000e-004	3.0400e-003	2.5500e-003	2.0000e-005	2.3000e-004	2.3000e-004	2.3000e-004	2.3000e-004	2.3000e-004	2.3000e-004	3.6455	3.6455	3.6455	7.0000e-005	7.0000e-005	3.6671

6.0 Area Detail

6.1 Mitigation Measures Area

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Category	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
Mitigated	0.3675	2.0000e-005	1.7600e-003	0.0000	1.0000e-005	1.0000e-005	1.0000e-005	1.0000e-005	1.0000e-005	1.0000e-005	3.7400e-003	3.7400e-003	3.7400e-003	1.0000e-005		4.0000e-003
Unmitigated	0.3675	2.0000e-005	1.7600e-003	0.0000	1.0000e-005	1.0000e-005	1.0000e-005	1.0000e-005	1.0000e-005	1.0000e-005	3.7400e-003	3.7400e-003	3.7400e-003	1.0000e-005		4.0000e-003

6.2 Area by SubCategory

Unmitigated

SubCategory	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
Architectural Coating	0.0466					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.3207					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.7000e-004	2.0000e-005	1.7600e-003	0.0000	1.0000e-005	1.0000e-005	1.0000e-005	1.0000e-005	1.0000e-005	1.0000e-005	3.7400e-003	3.7400e-003	3.7400e-003	1.0000e-005		4.0000e-003
Total	0.3675	2.0000e-005	1.7600e-003	0.0000	1.0000e-005	1.0000e-005	1.0000e-005	1.0000e-005	1.0000e-005	1.0000e-005	3.7400e-003	3.7400e-003	3.7400e-003	1.0000e-005		4.0000e-003

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6.2 Area by SubCategory

Mitigated

SubCategory	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
	lb/day															
Architectural Coating	0.0466					0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Consumer Products	0.3207					0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Landscaping	1.7000e-004	2.0000e-005	1.7600e-003	0.0000	1.0000e-005	1.0000e-005	1.0000e-005	1.0000e-005	1.0000e-005	1.0000e-005		3.7400e-003	3.7400e-003	1.0000e-005		4.0000e-003
Total	0.3675	2.0000e-005	1.7600e-003	0.0000	1.0000e-005	1.0000e-005	1.0000e-005	1.0000e-005	1.0000e-005	1.0000e-005		3.7400e-003	3.7400e-003	1.0000e-005		4.0000e-003

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7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

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

3115 Terreno - Baseline - South Coast AQMD Air District, Summer

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

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

Equipment Type	Number
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11.0 Vegetation

3115 Terreno - Baseline - South Coast AQMD Air District, Winter

3115 Terreno - Baseline

South Coast AQMD Air District, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	13.00	1000sqft	0.30	13,000.00	0
Other Asphalt Surfaces	4.10	Acre	4.10	178,596.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	9			Operational Year	2019

Utility Company Southern California Edison

CO2 Intensity (lb/MW/hr)	702.44	CH4 Intensity (lb/MW/hr)	0.029	N2O Intensity (lb/MW/hr)	0.006
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1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Area of pipe laydown is 4.1 acre.

Construction Phase - No construction. Baseline.

Off-road Equipment - No construction.

Demolition -

Vehicle Trips - 15 trucks per day. 10 workers.

Fleet Mix - 10 workers and 15 HHDT. 40/60 split.

3115 Terreno - Baseline - South Coast AQMD Air District, Winter

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblTripsAndVMT	WorkerTripNumber	0.00	15.00
tblVehicleTrips	ST_TR	1.68	2.00
tblVehicleTrips	SU_TR	1.68	2.00
tblVehicleTrips	WD_TR	1.68	2.00

2.0 Emissions Summary

3115 Terreno - Baseline - South Coast AQMD Air District, Winter

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

Year	lb/day																
	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	
2019	0.0000	0.0000	0.0000	0.0000	0.0000	1.3000e-003	0.0000	0.0000	1.2000e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	0.0000	0.0000	0.0000	0.0000	0.0000	1.3000e-003	0.0000	0.0000	1.2000e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Mitigated Construction

Year	lb/day																
	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	
2019	0.0000	0.0000	0.0000	0.0000	0.0000	1.3000e-003	0.0000	0.0000	1.2000e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	0.0000	0.0000	0.0000	0.0000	0.0000	1.3000e-003	0.0000	0.0000	1.2000e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Percent Reduction	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
		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3115 Terreno - Baseline - South Coast AQMD Air District, Winter

2.2 Overall Operational
Unmitigated Operational

Category	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
lb/day																
Area	0.3675	2.0000e-005	1.7600e-003	0.0000	1.0000e-005	1.0000e-005	1.0000e-005	1.0000e-005	1.0000e-005	1.0000e-005	3.7400e-003	3.7400e-003	3.7400e-003	1.0000e-005		4.0000e-003
Energy	3.3000e-004	3.0400e-003	2.5500e-003	2.0000e-005	2.3000e-004	2.3000e-004	2.3000e-004	2.3000e-004	2.3000e-004	2.3000e-004	3.6455	3.6455	3.6455	7.0000e-005	7.0000e-005	3.6671
Mobile	0.0610	0.3427	0.8748	2.9200e-003	0.2369	3.4300e-003	0.2404	0.0634	3.2300e-003	0.0666	296.4874	296.4874	296.4874	0.0157		296.8800
Total	0.4288	0.3458	0.8792	2.9400e-003	0.2369	3.6700e-003	0.2406	0.0634	3.4700e-003	0.0669	300.1366	300.1366	300.1366	0.0158	7.0000e-005	300.5511

Mitigated Operational

Category	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
lb/day																
Area	0.3675	2.0000e-005	1.7600e-003	0.0000	1.0000e-005	1.0000e-005	1.0000e-005	1.0000e-005	1.0000e-005	1.0000e-005	3.7400e-003	3.7400e-003	3.7400e-003	1.0000e-005		4.0000e-003
Energy	3.3000e-004	3.0400e-003	2.5500e-003	2.0000e-005	2.3000e-004	2.3000e-004	2.3000e-004	2.3000e-004	2.3000e-004	2.3000e-004	3.6455	3.6455	3.6455	7.0000e-005	7.0000e-005	3.6671
Mobile	0.0610	0.3427	0.8748	2.9200e-003	0.2369	3.4300e-003	0.2404	0.0634	3.2300e-003	0.0666	296.4874	296.4874	296.4874	0.0157		296.8800
Total	0.4288	0.3458	0.8792	2.9400e-003	0.2369	3.6700e-003	0.2406	0.0634	3.4700e-003	0.0669	300.1366	300.1366	300.1366	0.0158	7.0000e-005	300.5511

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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
0.00	0.00	0.00	0.00	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	No Construction - Baseline	Demolition	1/1/2019	1/10/2019	5	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 4.1

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
No Construction - Baseline	Concrete/Industrial Saws	0	8.00	81	0.73
No Construction - Baseline	Excavators	0	8.00	158	0.38
No Construction - Baseline	Rubber Tired Dozers	0	8.00	247	0.40

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
No Construction - Baseline	0	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3115 Terreno - Baseline - South Coast AQMD Air District, Winter

3.1 Mitigation Measures Construction

3.2 No Construction - Baseline - 2019

Unmitigated Construction On-Site

Category	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
lb/day																
Fugitive Dust	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
Off-Road	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
Total	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

Unmitigated Construction Off-Site

Category	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
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	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	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
Total	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

3115 Terreno - Baseline - South Coast AQMD Air District, Winter

3.2 No Construction - Baseline - 2019

Mitigated Construction On-Site

Category	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
lb/day																
Fugitive Dust	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
Off-Road	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
Total	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

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Mitigated Construction Off-Site

Category	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
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	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	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
Total	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

4.0 Operational Detail - Mobile

3115 Terreno - Baseline - South Coast AQMD Air District, Winter

4.1 Mitigation Measures Mobile

Category	lb/day															
	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
Mitigated	0.0610	0.3427	0.8748	2.9200e-003	0.2369	3.4300e-003	0.2404	0.0634	3.2300e-003	0.0666	296.4874	296.4874	296.4874	0.0157		296.8800
Unmitigated	0.0610	0.3427	0.8748	2.9200e-003	0.2369	3.4300e-003	0.2404	0.0634	3.2300e-003	0.0666	296.4874	296.4874	296.4874	0.0157		296.8800

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4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated Annual VMT	Mitigated Annual VMT
	Weekday	Saturday	Sunday		
Other Asphalt Surfaces	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	26.00	26.00	26.00	111,429	111,429
Total	26.00	26.00	26.00	111,429	111,429

4.3 Trip Type Information

Land Use	Miles					Trip %			Trip Purpose %		
	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	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	16.60	8.40	6.90	59.00	0.00	41.00	92	5	3		

4.4 Fleet Mix

3115 Terreno - Baseline - South Coast AQMD Air District, Winter

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.546418	0.044132	0.199182	0.124467	0.017484	0.005870	0.020172	0.031831	0.001999	0.002027	0.004724	0.000704	0.000991
Unrefrigerated Warehouse-No Rail	0.546418	0.044132	0.199182	0.124467	0.017484	0.005870	0.020172	0.031831	0.001999	0.002027	0.004724	0.000704	0.000991

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Category	lb/day															
	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
NaturalGas Mitigated	3.3000e-004	3.0400e-003	2.5500e-003	2.0000e-005	2.3000e-004	2.3000e-004	2.3000e-004	2.3000e-004	2.3000e-004	2.3000e-004	3.6455	3.6455	3.6455	7.0000e-005	7.0000e-005	3.6671
NaturalGas Unmitigated	3.3000e-004	3.0400e-003	2.5500e-003	2.0000e-005	2.3000e-004	2.3000e-004	2.3000e-004	2.3000e-004	2.3000e-004	2.3000e-004	3.6455	3.6455	3.6455	7.0000e-005	7.0000e-005	3.6671

3115 Terreno - Baseline - South Coast AQMD Air District, Winter

5.2 Energy by Land Use - Natural Gas

Unmitigated

Land Use	Natural Gas Use kBTU/yr	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
lb/day																	
Other Asphalt Surfaces	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
Unrefrigerated Warehouse-No Rail	30.9863	3.3000e-004	3.0400e-003	2.5500e-003	2.0000e-005	2.3000e-004	2.3000e-004	2.3000e-004	2.3000e-004	2.3000e-004	2.3000e-004	3.6455	3.6455	3.6455	7.0000e-005	7.0000e-005	3.6671
Total		3.3000e-004	3.0400e-003	2.5500e-003	2.0000e-005	2.3000e-004	2.3000e-004	2.3000e-004	2.3000e-004	2.3000e-004	2.3000e-004	3.6455	3.6455	3.6455	7.0000e-005	7.0000e-005	3.6671

Mitigated

Land Use	Natural Gas Use kBTU/yr	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
lb/day																	
Other Asphalt Surfaces	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
Unrefrigerated Warehouse-No Rail	0.0309863	3.3000e-004	3.0400e-003	2.5500e-003	2.0000e-005	2.3000e-004	2.3000e-004	2.3000e-004	2.3000e-004	2.3000e-004	2.3000e-004	3.6455	3.6455	3.6455	7.0000e-005	7.0000e-005	3.6671
Total		3.3000e-004	3.0400e-003	2.5500e-003	2.0000e-005	2.3000e-004	2.3000e-004	2.3000e-004	2.3000e-004	2.3000e-004	2.3000e-004	3.6455	3.6455	3.6455	7.0000e-005	7.0000e-005	3.6671

6.0 Area Detail

6.1 Mitigation Measures Area

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Category	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
lb/day																
Mitigated	0.3675	2.0000e-005	1.7600e-003	0.0000	1.0000e-005	1.0000e-005	1.0000e-005	1.0000e-005	1.0000e-005	1.0000e-005	3.7400e-003	3.7400e-003	3.7400e-003	1.0000e-005		4.0000e-003
Unmitigated	0.3675	2.0000e-005	1.7600e-003	0.0000	1.0000e-005	1.0000e-005	1.0000e-005	1.0000e-005	1.0000e-005	1.0000e-005	3.7400e-003	3.7400e-003	3.7400e-003	1.0000e-005		4.0000e-003

6.2 Area by SubCategory

Unmitigated

SubCategory	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
lb/day																
Architectural Coating	0.0466					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.3207					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.7000e-004	2.0000e-005	1.7600e-003	0.0000	1.0000e-005	1.0000e-005	1.0000e-005	1.0000e-005	1.0000e-005	1.0000e-005	3.7400e-003	3.7400e-003	3.7400e-003	1.0000e-005		4.0000e-003
Total	0.3675	2.0000e-005	1.7600e-003	0.0000	1.0000e-005	1.0000e-005	1.0000e-005	1.0000e-005	1.0000e-005	1.0000e-005	3.7400e-003	3.7400e-003	3.7400e-003	1.0000e-005		4.0000e-003

3115 Terreno - Baseline - South Coast AQMD Air District, Winter

6.2 Area by SubCategory

Mitigated

SubCategory	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
	lb/day															
Architectural Coating	0.0466				0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Consumer Products	0.3207				0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Landscaping	1.7000e-004	2.0000e-005	1.7600e-003	0.0000	1.0000e-005	1.0000e-005	1.0000e-005	1.0000e-005	1.0000e-005	1.0000e-005		3.7400e-003	3.7400e-003	1.0000e-005		4.0000e-003
Total	0.3675	2.0000e-005	1.7600e-003	0.0000	1.0000e-005	1.0000e-005	1.0000e-005	1.0000e-005	1.0000e-005	1.0000e-005		3.7400e-003	3.7400e-003	1.0000e-005		4.0000e-003

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7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

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

3115 Terreno - Baseline - South Coast AQMD Air District, Winter

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

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

Equipment Type	Number
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11.0 Vegetation

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1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	13.00	1000sqft	0.30	13,000.00	0
Other Asphalt Surfaces	4.10	Acre	4.10	178,596.00	0

1.2 Other Project Characteristics

Urbanization Urban Wind Speed (m/s) 2.2 Precipitation Freq (Days) 31
 Climate Zone 9 Operational Year 2019

Utility Company Southern California Edison

CO2 Intensity (lb/MW/hr) 702.44 CH4 Intensity (lb/MW/hr) 0.029 N2O Intensity (lb/MW/hr) 0.006

1.3 User Entered Comments & Non-Default Data

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Project Characteristics -

Land Use - 13,000 ft2 warehouse and 4.1 acre of trailer parking.

Construction Phase - 2 month construction period. Assumes paving and building upgrades are concurrent.

Off-road Equipment - Parking and building coating.

Off-road Equipment - No heavy equipment is expected to be used during remodeling.

Off-road Equipment - Assumes no heavy duty equipment.

Off-road Equipment - Demolition of parking area.

Off-road Equipment - One team of paving equipment.

Trips and VMT - Assumes approximately 5 haul trucks per day for demo. Assumes approximately 25 workers per day during remodel/paving/coating. Upto 40 delivery trucks per day during remodel/paving/coating.

Demolition - Assumes 5 trucks per day during demo.

Architectural Coating - Approximately 4 acres of trailer parking area.

Vehicle Trips - Approximately 100 trucks on a peak day. 3 Workers. Average 50 trucks per day.

Construction Off-road Equipment Mitigation -

Fleet Mix - 100 percent HHDT for asphalt area. 100 light duty truck for workers.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Parking	10,716.00	178,000.00
tblConstructionPhase	NumDays	230.00	20.00
tblFleetMix	HHH	0.03	1.00
tblFleetMix	HHH	0.03	0.00
tblFleetMix	LDA	0.55	0.00
tblFleetMix	LDA	0.55	0.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT2	0.20	0.00
tblFleetMix	LDT2	0.20	1.00
tblFleetMix	LHD1	0.02	0.00

tbIFleetMix	LHD1	0.02	0.00
tbIFleetMix	LHD2	5.8700e-003	0.00
tbIFleetMix	LHD2	5.8700e-003	0.00
tbIFleetMix	MCY	4.7240e-003	0.00
tbIFleetMix	MCY	4.7240e-003	0.00
tbIFleetMix	MDV	0.12	0.00
tbIFleetMix	MDV	0.12	0.00
tbIFleetMix	MH	9.9100e-004	0.00
tbIFleetMix	MH	9.9100e-004	0.00
tbIFleetMix	MHD	0.02	0.00
tbIFleetMix	MHD	0.02	0.00
tbIFleetMix	OBUS	1.9990e-003	0.00
tbIFleetMix	OBUS	1.9990e-003	0.00
tbIFleetMix	SBUS	7.0400e-004	0.00
tbIFleetMix	SBUS	7.0400e-004	0.00
tbIFleetMix	UBUS	2.0270e-003	0.00
tbIFleetMix	UBUS	2.0270e-003	0.00
tbOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tbOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tbOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tbOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tbOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tbOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tbOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tbOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tbOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tbOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount		
tblTripsAndVMT	HaulingTripNumber	1.00	0.00
tblTripsAndVMT	VendorTripNumber	0.00	100.00
tblTripsAndVMT	WorkerTripNumber	31.00	40.00
tblTripsAndVMT	WorkerTripNumber	80.00	5.00
tblTripsAndVMT	WorkerTripNumber	16.00	7.00
tblVehicleTrips	CC_TTP	0.00	100.00
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CW_TTP	59.00	100.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	0.00	100.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	0.00	12.20
tblVehicleTrips	ST_TR	1.68	0.23
tblVehicleTrips	SU_TR	0.00	12.20
tblVehicleTrips	SU_TR	1.68	0.23
tblVehicleTrips	WD_TR	0.00	12.20
tblVehicleTrips	WD_TR	1.68	0.23

2.0 Emissions Summary

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Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-11-2019	4-10-2019	0.4361	0.4361
		Highest	0.4361	0.4361

2.2 Overall Operational
Unmitigated Operational

Category	tons/yr											MT/yr					
	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	
Area	0.0671	0.0000	2.2000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	4.2000e-004	4.2000e-004	0.0000	0.0000	0.0000	4.5000e-004
Energy	6.0000e-005	5.5000e-004	4.7000e-004	0.0000	4.0000e-005	4.0000e-005	4.0000e-005	4.0000e-005	4.0000e-005	4.0000e-005	0.0000	16.7577	16.7577	6.8000e-004	1.5000e-004	0.0000	16.8190
Mobile	0.0431	1.6663	0.3152	3.5800e-003	0.0724	4.5300e-003	0.0769	0.198	4.3300e-003	0.0241	0.0000	350.0832	350.0832	0.0307	0.0000	0.0000	350.8504
Waste						0.0000	0.0000		0.0000	0.0000	2.4806	0.0000	2.4806	0.1466	0.0000		6.1455
Water						0.0000	0.0000		0.0000	0.0000	0.9537	12.4722	13.4260	0.0985	2.4200e-003		16.6089
Total	0.1102	1.6669	0.3159	3.5800e-003	0.0724	4.5700e-003	0.0770	0.0198	4.3700e-003	0.0242	3.4343	379.3135	382.7478	0.2764	2.5700e-003		390.4242

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Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/11/2019	2/7/2019	5	20	
2	Building Remodeling	Building Construction	2/8/2019	3/7/2019	5	20	
3	Paving	Paving	2/8/2019	3/5/2019	5	18	
4	Architectural Coating	Architectural Coating	2/8/2019	2/7/2019	5	18	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 4.1

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 19,500; Non-Residential Outdoor: 6,500; Striped Parking Area: 178,000 (Architectural Coating – sqft)

OffRoad Equipment

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Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Crushing/Proc. Equipment	1	8.00	85	0.78
Demolition	Excavators	1	8.00	158	0.38
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Building Remodeling	Aerial Lifts	1	8.00	63	0.31
Building Remodeling	Cranes	0	7.00	231	0.29
Building Remodeling	Forklifts	1	8.00	89	0.20
Building Remodeling	Generator Sets	0	8.00	84	0.74
Building Remodeling	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Building Remodeling	Welders	0	8.00	46	0.45
Paving	Cement and Mortar Mixers	1	6.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	1	6.00	132	0.36
Paving	Rollers	1	6.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	2	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
Demolition	4	10.00	0.00	100.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Remodeling	2	5.00	40.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	13.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	2	7.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

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Water Exposed Area

3.2 Demolition - 2019

Unmitigated Construction On-Site

Category	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
tons/yr																
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0246	0.2249	0.1562	2.7000e-004	0.0123	0.0123	0.0123	0.0117	0.0117	0.0117	0.0000	23.7115	23.7115	4.7600e-003	0.0000	23.8305
Total	0.0246	0.2249	0.1562	2.7000e-004	0.0000	0.0123	0.0123	0.0117	0.0117	0.0117	0.0000	23.7115	23.7115	4.7600e-003	0.0000	23.8305
MT/yr																

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Unmitigated Construction Off-Site

Category	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
tons/yr																
Hauling	4.2000e-004	0.0150	2.8900e-003	4.0000e-005	8.6000e-004	5.0000e-005	9.1000e-004	2.4000e-004	5.0000e-005	2.9000e-004	0.0000	3.8118	3.8118	2.7000e-004	0.0000	3.8185
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	4.8000e-004	3.8000e-004	4.1700e-003	1.0000e-005	1.1000e-003	1.0000e-005	1.1100e-003	2.9000e-004	1.0000e-005	3.0000e-004	0.0000	1.0193	1.0193	3.0000e-005	0.0000	1.0201
Total	9.0000e-004	0.0154	7.0600e-003	5.0000e-005	1.9600e-003	6.0000e-005	2.0200e-003	5.3000e-004	6.0000e-005	5.9000e-004	0.0000	4.8311	4.8311	3.0000e-004	0.0000	4.8386
MT/yr																

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3.2 Demolition - 2019

Mitigated Construction On-Site

Category	tons/yr										MT/yr					
	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
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0246	0.2249	0.1562	2.7000e-004	0.0123	0.0123	0.0123	0.0117	0.0117	0.0117	0.0000	23.7115	23.7115	4.7600e-003	0.0000	23.8305
Total	0.0246	0.2249	0.1562	2.7000e-004	0.0000	0.0123	0.0123	0.0000	0.0117	0.0117	0.0000	23.7115	23.7115	4.7600e-003	0.0000	23.8305

Mitigated Construction Off-Site

Category	tons/yr										MT/yr					
	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
Hauling	4.2000e-004	0.0150	2.8900e-003	4.0000e-005	8.6000e-004	5.0000e-005	9.1000e-004	2.4000e-004	5.0000e-005	2.9000e-004	0.0000	3.8118	3.8118	2.7000e-004	0.0000	3.8185
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	4.8000e-004	3.8000e-004	4.1700e-003	1.0000e-005	1.1000e-003	1.0000e-005	1.1100e-003	2.9000e-004	1.0000e-005	3.0000e-004	0.0000	1.0193	1.0193	3.0000e-005	0.0000	1.0201
Total	9.0000e-004	0.0154	7.0600e-003	5.0000e-005	1.9600e-003	6.0000e-005	2.0200e-003	5.3000e-004	6.0000e-005	5.9000e-004	0.0000	4.8311	4.8311	3.0000e-004	0.0000	4.8386

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3.3 Building Remodeling - 2019
Unmitigated Construction On-Site

Category	tons/yr											MT/yr				
	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
Off-Road	2.0100e-003	0.0211	0.0229	3.0000e-005	1.2700e-003	1.2700e-003	1.2700e-003	1.1700e-003	1.1700e-003	1.1700e-003	0.0000	2.8808	2.8808	9.1000e-004	0.0000	2.9036
Total	2.0100e-003	0.0211	0.0229	3.0000e-005	1.2700e-003	1.2700e-003	1.2700e-003	1.1700e-003	1.1700e-003	1.1700e-003	0.0000	2.8808	2.8808	9.1000e-004	0.0000	2.9036

Unmitigated Construction Off-Site

Category	tons/yr											MT/yr				
	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
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	1.5700e-003	0.0466	0.0117	1.0000e-004	2.5200e-003	3.1000e-004	2.8300e-003	7.3000e-004	2.9000e-004	1.0200e-003	0.0000	9.9028	9.9028	6.9000e-004	0.0000	9.9200
Worker	2.4000e-004	1.9000e-004	2.0800e-003	1.0000e-005	5.5000e-004	0.0000	5.5000e-004	1.5000e-004	0.0000	1.5000e-004	0.0000	0.5097	0.5097	2.0000e-005	0.0000	0.5100
Total	1.8100e-003	0.0468	0.0138	1.1000e-004	3.0700e-003	3.1000e-004	3.3800e-003	8.8000e-004	2.9000e-004	1.1700e-003	0.0000	10.4125	10.4125	7.1000e-004	0.0000	10.4300

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3.3 Building Remodeling - 2019
Mitigated Construction On-Site

Category	tons/yr											MT/yr				
	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
Off-Road	2.0100e-003	0.0211	0.0229	3.0000e-005	1.2700e-003	1.2700e-003	1.2700e-003	1.1700e-003	1.1700e-003	1.1700e-003	0.0000	2.8808	2.8808	9.1000e-004	0.0000	2.9036
Total	2.0100e-003	0.0211	0.0229	3.0000e-005	1.2700e-003	1.2700e-003	1.2700e-003	1.1700e-003	1.1700e-003	1.1700e-003	0.0000	2.8808	2.8808	9.1000e-004	0.0000	2.9036

Mitigated Construction Off-Site

Category	tons/yr											MT/yr				
	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
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	1.5700e-003	0.0466	0.0117	1.0000e-004	2.5200e-003	3.1000e-004	2.8300e-003	7.3000e-004	2.9000e-004	1.0200e-003	0.0000	9.9028	9.9028	6.9000e-004	0.0000	9.9200
Worker	2.4000e-004	1.9000e-004	2.0800e-003	1.0000e-005	5.5000e-004	0.0000	5.5000e-004	1.5000e-004	0.0000	1.5000e-004	0.0000	0.5097	0.5097	2.0000e-005	0.0000	0.5100
Total	1.8100e-003	0.0468	0.0138	1.1000e-004	3.0700e-003	3.1000e-004	3.3800e-003	8.8000e-004	2.9000e-004	1.1700e-003	0.0000	10.4125	10.4125	7.1000e-004	0.0000	10.4300

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3.4 Paving - 2019

Unmitigated Construction On-Site

Category	tons/yr										MT/yr					
	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
Off-Road	8.0500e-003	0.0820	0.0788	1.2000e-004	4.6300e-003	4.6300e-003	4.6300e-003	4.2700e-003	4.2700e-003	4.2700e-003	0.0000	10.6808	10.6808	3.3100e-003	0.0000	10.7637
Paving	5.3700e-003				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	0.0134	0.0820	0.0788	1.2000e-004	4.6300e-003	4.6300e-003	4.6300e-003	4.2700e-003	4.2700e-003	4.2700e-003	0.0000	10.6808	10.6808	3.3100e-003	0.0000	10.7637

Unmitigated Construction Off-Site

Category	tons/yr										MT/yr					
	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
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	5.7000e-004	4.5000e-004	4.8800e-003	1.0000e-005	1.2800e-003	1.0000e-005	1.2900e-003	3.4000e-004	1.0000e-005	3.5000e-004	0.0000	1.1926	1.1926	4.0000e-005	0.0000	1.1935
Total	5.7000e-004	4.5000e-004	4.8800e-003	1.0000e-005	1.2800e-003	1.0000e-005	1.2900e-003	3.4000e-004	1.0000e-005	3.5000e-004	0.0000	1.1926	1.1926	4.0000e-005	0.0000	1.1935

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3.4 Paving - 2019

Mitigated Construction On-Site

Category	tons/yr										MT/yr					
	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
Off-Road	8.0500e-003	0.0820	0.0788	1.2000e-004	4.6300e-003	4.6300e-003	4.6300e-003	4.2700e-003	4.2700e-003	4.2700e-003	0.0000	10.6808	10.6808	3.3100e-003	0.0000	10.7637
Paving	5.3700e-003				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	0.0134	0.0820	0.0788	1.2000e-004	4.6300e-003	4.6300e-003	4.6300e-003	4.2700e-003	4.2700e-003	4.2700e-003	0.0000	10.6808	10.6808	3.3100e-003	0.0000	10.7637

Mitigated Construction Off-Site

Category	tons/yr										MT/yr					
	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
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	5.7000e-004	4.5000e-004	4.8800e-003	1.0000e-005	1.2800e-003	1.0000e-005	1.2900e-003	3.4000e-004	1.0000e-005	3.5000e-004	0.0000	1.1926	1.1926	4.0000e-005	0.0000	1.1935
Total	5.7000e-004	4.5000e-004	4.8800e-003	1.0000e-005	1.2800e-003	1.0000e-005	1.2900e-003	3.4000e-004	1.0000e-005	3.5000e-004	0.0000	1.1926	1.1926	4.0000e-005	0.0000	1.1935

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3.5 Architectural Coating - 2019

Unmitigated Construction On-Site

Category	tons/yr										MT/yr						
	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	
Archit. Coating	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	0.0000
Off-Road	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	0.0000
Total	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	0.0000

Unmitigated Construction Off-Site

Category	tons/yr										MT/yr						
	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	
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	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	0.0000
Worker	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	0.0000
Total	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	0.0000

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3.5 Architectural Coating - 2019

Mitigated Construction On-Site

Category	tons/yr										MT/yr					
	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
Archit. Coating	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
Off-Road	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
Total	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

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Mitigated Construction Off-Site

Category	tons/yr										MT/yr					
	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
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	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
Total	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

4.0 Operational Detail - Mobile

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4.1 Mitigation Measures Mobile

Category	tons/yr											MT/yr				
	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
Mitigated	0.0431	1.6663	0.3152	3.5800e-003	0.0724	4.5300e-003	0.0769	0.0198	4.3300e-003	0.0241	0.0000	350.0832	350.0832	0.0307	0.0000	350.8504
Unmitigated	0.0431	1.6663	0.3152	3.5800e-003	0.0724	4.5300e-003	0.0769	0.0198	4.3300e-003	0.0241	0.0000	350.0832	350.0832	0.0307	0.0000	350.8504

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4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated Annual VMT	Mitigated Annual VMT
	Weekday	Saturday	Sunday		
Other Asphalt Surfaces	50.02	50.02	50.02	152,941	152,941
Unrefrigerated Warehouse-No Rail	2.99	2.99	2.99	18,067	18,067
Total	53.01	53.01	53.01	171,008	171,008

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-C	H-O or C-NW	H-S or C-C	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Asphalt Surfaces	16.60	6.90	8.40	0.00	100.00	0.00	100	0	0
Unrefrigerated Warehouse-No	16.60	6.90	8.40	100.00	0.00	0.00	100	0	0

4.4 Fleet Mix

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Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	1.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Unrefrigerated Warehouse-No Rail	0.000000	0.000000	1.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Category	tons/yr										MT/yr					
	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
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	16.1541	16.1541	6.7000e-004	1.4000e-004	16.2119
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	16.1541	16.1541	6.7000e-004	1.4000e-004	16.2119
NaturalGas Mitigated	6.0000e-005	5.5000e-004	4.7000e-004	0.0000		4.0000e-005	4.0000e-005	4.0000e-005	4.0000e-005	4.0000e-005	0.0000	0.6035	0.6035	1.0000e-005	1.0000e-005	0.6071
NaturalGas Unmitigated	6.0000e-005	5.5000e-004	4.7000e-004	0.0000		4.0000e-005	4.0000e-005	4.0000e-005	4.0000e-005	4.0000e-005	0.0000	0.6035	0.6035	1.0000e-005	1.0000e-005	0.6071

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5.2 Energy by Land Use - Natural Gas

Unmitigated

Land Use	Natural Gas Use kBTU/yr	tons/yr										MT/yr					CO2e	
		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		
Other Asphalt Surfaces	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	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	11310	6.0000e-005	5.5000e-004	4.7000e-004	0.0000	4.0000e-005	4.0000e-005	4.0000e-005	4.0000e-005	4.0000e-005	4.0000e-005	4.0000e-005	4.0000e-005	0.6035	1.0000e-005	1.0000e-005	1.0000e-005	0.6071
Total		6.0000e-005	5.5000e-004	4.7000e-004	0.0000	4.0000e-005	4.0000e-005	4.0000e-005	4.0000e-005	4.0000e-005	4.0000e-005	4.0000e-005	4.0000e-005	0.6035	1.0000e-005	1.0000e-005	1.0000e-005	0.6071

Mitigated

Land Use	Natural Gas Use kBTU/yr	tons/yr										MT/yr					CO2e		
		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			
Other Asphalt Surfaces	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	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	11310	6.0000e-005	5.5000e-004	4.7000e-004	0.0000	4.0000e-005	4.0000e-005	4.0000e-005	4.0000e-005	4.0000e-005	4.0000e-005	4.0000e-005	4.0000e-005	0.6035	1.0000e-005	1.0000e-005	1.0000e-005	0.6071	
Total		6.0000e-005	5.5000e-004	4.7000e-004	0.0000	4.0000e-005	4.0000e-005	4.0000e-005	4.0000e-005	4.0000e-005	4.0000e-005	4.0000e-005	4.0000e-005	0.6035	1.0000e-005	1.0000e-005	1.0000e-005	0.6071	

5.3 Energy by Land Use - Electricity

Unmitigated

Land Use	Electricity Use kWh/yr	Total CO2	CH4	N2O	CO2e
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	50700	16.1541	6.7000e-004	1.4000e-004	16.2119
Total		16.1541	6.7000e-004	1.4000e-004	16.2119

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Mitigated

Land Use	Electricity Use kWh/yr	Total CO2	CH4	N2O	CO2e
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	50700	16.1541	6.7000e-004	1.4000e-004	16.2119
Total		16.1541	6.7000e-004	1.4000e-004	16.2119

6.0 Area Detail

6.1 Mitigation Measures Area

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Category	tons/yr											MT/yr					
	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	
Mitigated	0.0671	0.0000	2.2000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	4.2000e-004	4.2000e-004	0.0000	0.0000	0.0000	4.5000e-004
Unmitigated	0.0671	0.0000	2.2000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	4.2000e-004	4.2000e-004	0.0000	0.0000	0.0000	4.5000e-004

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6.2 Area by SubCategory

Unmitigated

SubCategory	tons/yr											MT/yr					
	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	
Architectural Coating	8.5100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0585					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.0000e-005	0.0000	2.2000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	4.2000e-004	4.2000e-004	0.0000	0.0000	0.0000	4.5000e-004
Total	0.0671	0.0000	2.2000e-004	0.0000		0.0000		0.0000		0.0000		4.2000e-004	4.2000e-004	0.0000	0.0000	0.0000	4.5000e-004

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6.2 Area by SubCategory

Mitigated

SubCategory	tons/yr										MT/yr					
	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
Architectural Coating	8.5100e-003					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0585					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.0000e-005	0.0000	2.2000e-004	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	4.2000e-004	4.2000e-004	0.0000	0.0000	4.5000e-004
Total	0.0671	0.0000	2.2000e-004	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	4.2000e-004	4.2000e-004	0.0000	0.0000	4.5000e-004

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7.0 Water Detail

7.1 Mitigation Measures Water

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	13.4260	0.0985	2.4200e-003	16.6089
Unmitigated	13.4260	0.0985	2.4200e-003	16.6089

7.2 Water by Land Use

Unmitigated

Land Use	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	3.00625 / 0	13.4260	0.0985	2.4200e-003	16.6089
Total		13.4260	0.0985	2.4200e-003	16.6089

7.2 Water by Land Use

Mitigated

Land Use	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
	Mgal	MT/yr			
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	3.00625 / 0	13.4260	0.0985	2.4200e-003	16.6089
Total		13.4260	0.0985	2.4200e-003	16.6089

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8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

Category/Year	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	2.4806	0.1466	0.0000	6.1455
Unmitigated	2.4806	0.1466	0.0000	6.1455

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8.2 Waste by Land Use

Unmitigated

Land Use	Waste Disposed tons	Total CO2	CH4	N2O	CO2e
		MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	12.22	2.4806	0.1466	0.0000	6.1455
Total		2.4806	0.1466	0.0000	6.1455

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Mitigated

Land Use	Waste Disposed tons	Total CO2	CH4	N2O	CO2e
		MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	12.22	2.4806	0.1466	0.0000	6.1455
Total		2.4806	0.1466	0.0000	6.1455

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
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Boilers

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

Equipment Type	Number
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11.0 Vegetation

3115 Terreno - Project - South Coast AQMD Air District, Summer

3115 Terreno - Project
South Coast AQMD Air District, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	13.00	1000sqft	0.30	13,000.00	0
Other Asphalt Surfaces	4.10	Acre	4.10	178,596.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	9			Operational Year	2019

Utility Company Southern California Edison

CO2 Intensity (lb/MW/hr)	702.44	CH4 Intensity (lb/MW/hr)	0.029	N2O Intensity (lb/MW/hr)	0.006
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1.3 User Entered Comments & Non-Default Data

3115 Terreno - Project - South Coast AQMD Air District, Summer

Project Characteristics -

Land Use - 13,000 ft2 warehouse and 4.1 acre of trailer parking.

Construction Phase - 2 month construction period. Assumes paving and building upgrades are concurrent.

Off-road Equipment - Parking and building coating.

Off-road Equipment - No heavy equipment is expected to be used during remodeling.

Off-road Equipment - Assumes no heavy duty equipment.

Off-road Equipment - Demolition of parking area.

Off-road Equipment - One team of paving equipment.

Trips and VMT - Assumes approximately 5 haul trucks per day for demo. Assumes approximately 25 workers per day during remodel/paving/coating. Upto 40 delivery trucks per day during remodel/paving/coating.

Demolition - Assumes 5 trucks per day during demo.

Architectural Coating - Approximately 4 acres of trailer parking area.

Vehicle Trips - Approximately 100 trucks on a peak day. 3 Workers.

Construction Off-road Equipment Mitigation -

Fleet Mix - 100 percent HHDT for asphalt area. 100 light duty truck for workers.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Parking	10,716.00	178,000.00
tblConstructionPhase	NumDays	230.00	20.00
tblFleetMix	HHH	0.03	1.00
tblFleetMix	HHH	0.03	0.00
tblFleetMix	LDA	0.55	0.00
tblFleetMix	LDA	0.55	0.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT2	0.20	0.00
tblFleetMix	LDT2	0.20	1.00
tblFleetMix	LHD1	0.02	0.00

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tbIFleetMix	LHD1	0.02	0.00
tbIFleetMix	LHD2	5.8700e-003	0.00
tbIFleetMix	LHD2	5.8700e-003	0.00
tbIFleetMix	MCY	4.7240e-003	0.00
tbIFleetMix	MCY	4.7240e-003	0.00
tbIFleetMix	MDV	0.12	0.00
tbIFleetMix	MDV	0.12	0.00
tbIFleetMix	MH	9.9100e-004	0.00
tbIFleetMix	MH	9.9100e-004	0.00
tbIFleetMix	MHD	0.02	0.00
tbIFleetMix	MHD	0.02	0.00
tbIFleetMix	OBUS	1.9990e-003	0.00
tbIFleetMix	OBUS	1.9990e-003	0.00
tbIFleetMix	SBUS	7.0400e-004	0.00
tbIFleetMix	SBUS	7.0400e-004	0.00
tbIFleetMix	UBUS	2.0270e-003	0.00
tbIFleetMix	UBUS	2.0270e-003	0.00
tbOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tbOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tbOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tbOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tbOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tbOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tbOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tbOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tbOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tbOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00

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tblOffRoadEquipment	OffRoadEquipmentUnitAmount		
tblTripsAndVMT	HaulingTripNumber	1.00	0.00
tblTripsAndVMT	VendorTripNumber	0.00	100.00
tblTripsAndVMT	WorkerTripNumber	31.00	40.00
tblTripsAndVMT	WorkerTripNumber	80.00	5.00
tblTripsAndVMT	WorkerTripNumber	16.00	7.00
tblVehicleTrips	CC_TTP	0.00	100.00
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CW_TTP	59.00	100.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	0.00	100.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	0.00	24.40
tblVehicleTrips	ST_TR	1.68	0.23
tblVehicleTrips	SU_TR	0.00	24.40
tblVehicleTrips	SU_TR	1.68	0.23
tblVehicleTrips	WD_TR	0.00	24.40
tblVehicleTrips	WD_TR	1.68	0.23

2.0 Emissions Summary

3115 Terreno - Project - South Coast AQMD Air District, Summer

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

Year	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
2019	2.5543	23.9786	16.3496	0.0321	0.4572	1.2356	1.4347	0.1271	1.1778	1.2314	0.0000	3,155.2574	3,155.2574	0.5861	0.0000	3,169.1894
Maximum	2.5543	23.9786	16.3496	0.0321	0.4572	1.2356	1.4347	0.1271	1.1778	1.2314	0.0000	3,155.2574	3,155.2574	0.5861	0.0000	3,169.1894

Mitigated Construction

Year	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
2019	2.5543	23.9786	16.3496	0.0321	0.4572	1.2356	1.4347	0.1271	1.1778	1.2314	0.0000	3,155.2574	3,155.2574	0.5861	0.0000	3,169.1894
Maximum	2.5543	23.9786	16.3496	0.0321	0.4572	1.2356	1.4347	0.1271	1.1778	1.2314	0.0000	3,155.2574	3,155.2574	0.5861	0.0000	3,169.1894

Percent Reduction	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
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3115 Terreno - Project - South Coast AQMD Air District, Summer

2.2 Overall Operational
Unmitigated Operational

Category	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
lb/day																
Area	0.3675	2.0000e-005	1.7600e-003	0.0000	1.0000e-005	1.0000e-005	1.0000e-005	1.0000e-005	1.0000e-005	1.0000e-005	3.7400e-003	3.7400e-003	3.7400e-003	1.0000e-005		4.0000e-003
Energy	3.3000e-004	3.0400e-003	2.5500e-003	2.0000e-005	2.3000e-004	2.3000e-004	2.3000e-004	2.3000e-004	2.3000e-004	2.3000e-004	3.6455	3.6455	3.6455	7.0000e-005	7.0000e-005	3.6671
Mobile	0.4579	18.0322	3.1446	0.0396	0.7710	0.0487	0.8198	0.2109	0.0466	0.2575	4.267.515	4.267.515	4.267.515	0.3597		4,276.507
Total	0.8256	18.0352	3.1489	0.0396	0.7710	0.0490	0.8200	0.2109	0.0469	0.2578	4,271.164	4,271.164	4,271.164	0.3597	7.0000e-005	4,280.178

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Mitigated Operational

Category	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
lb/day																
Area	0.3675	2.0000e-005	1.7600e-003	0.0000	1.0000e-005	1.0000e-005	1.0000e-005	1.0000e-005	1.0000e-005	1.0000e-005	3.7400e-003	3.7400e-003	3.7400e-003	1.0000e-005		4.0000e-003
Energy	3.3000e-004	3.0400e-003	2.5500e-003	2.0000e-005	2.3000e-004	2.3000e-004	2.3000e-004	2.3000e-004	2.3000e-004	2.3000e-004	3.6455	3.6455	3.6455	7.0000e-005	7.0000e-005	3.6671
Mobile	0.4579	18.0322	3.1446	0.0396	0.7710	0.0487	0.8198	0.2109	0.0466	0.2575	4.267.515	4.267.515	4.267.515	0.3597		4,276.507
Total	0.8256	18.0352	3.1489	0.0396	0.7710	0.0490	0.8200	0.2109	0.0469	0.2578	4,271.164	4,271.164	4,271.164	0.3597	7.0000e-005	4,280.178

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	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
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	Demolition	Demolition	1/1/2019	2/7/2019	5	20	
2	Building Remodeling	Building Construction	2/8/2019	3/7/2019	5	20	
3	Paving	Paving	2/8/2019	3/5/2019	5	18	
4	Architectural Coating	Architectural Coating	2/8/2019	2/7/2019	5	18	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 4.1

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 19,500; Non-Residential Outdoor: 6,500; Striped Parking Area: 178,000 (Architectural Coating – sqft)

OffRoad Equipment

3115 Terreno - Project - South Coast AQMD Air District, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Crushing/Proc. Equipment	1	8.00	85	0.78
Demolition	Excavators	1	8.00	158	0.38
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Building Remodeling	Aerial Lifts	1	8.00	63	0.31
Building Remodeling	Cranes	0	7.00	231	0.29
Building Remodeling	Forklifts	1	8.00	89	0.20
Building Remodeling	Generator Sets	0	8.00	84	0.74
Building Remodeling	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Building Remodeling	Welders	0	8.00	46	0.45
Paving	Cement and Mortar Mixers	1	6.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	1	6.00	132	0.36
Paving	Rollers	1	6.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	2	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
Demolition	4	10.00	0.00	100.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Remodeling	2	5.00	40.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	13.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	2	7.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3115 Terreno - Project - South Coast AQMD Air District, Summer

Water Exposed Area

3.2 Demolition - 2019

Unmitigated Construction On-Site

Category	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
lb/day																
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	2.4642	22.4889	15.6216	0.0270	1.2293	1.2293	1.2293	1.1719	1.1719	1.1719		2,613.7499	2,613.7499	0.5247		2,626.8675
Total	2.4642	22.4889	15.6216	0.0270	0.0000	1.2293	1.2293	0.0000	1.1719	1.1719		2,613.7499	2,613.7499	0.5247		2,626.8675

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Unmitigated Construction Off-Site

Category	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
lb/day																
Hauling	0.0411	1.4556	0.2786	3.9200e-003	0.0874	5.4000e-003	0.0928	0.0239	5.1700e-003	0.0291		423.4086	423.4086	0.0289		424.1307
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	0.0490	0.0341	0.4493	1.1900e-003	0.1118	8.7000e-004	0.1127	0.0296	8.0000e-004	0.0305		118.0989	118.0989	3.6900e-003		118.1912
Total	0.0901	1.4897	0.7280	5.1100e-003	0.1992	6.2700e-003	0.2054	0.0536	5.9700e-003	0.0596		541.5075	541.5075	0.0326		542.3219

3115 Terreno - Project - South Coast AQMD Air District, Summer

3.2 Demolition - 2019

Mitigated Construction On-Site

Category	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
lb/day																
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	2.4642	22.4889	15.6216	0.0270	1.2293	1.2293	1.2293	1.1719	1.1719	1.1719	0.0000	2.613.749 ₉	2.613.749 ₉	0.5247		2.626.867 ₄
Total	2.4642	22.4889	15.6216	0.0270	0.0000	1.2293	1.2293	0.0000	1.1719	1.1719	0.0000	2.613.749₉	2.613.749₉	0.5247		2.626.867₄

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Mitigated Construction Off-Site

Category	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
lb/day																
Hauling	0.0411	1.4556	0.2786	3.9200e-003	0.0874	5.4000e-003	0.0928	0.0239	5.1700e-003	0.0291		423.4086	423.4086	0.0289		424.1307
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	0.0490	0.0341	0.4493	1.1900e-003	0.1118	8.7000e-004	0.1127	0.0296	8.0000e-004	0.0305		118.0989	118.0989	3.6900e-003		118.1912
Total	0.0901	1.4897	0.7280	5.1100e-003	0.1992	6.2700e-003	0.2054	0.0536	5.9700e-003	0.0596		541.5075	541.5075	0.0326		542.3219

3115 Terreno - Project - South Coast AQMD Air District, Summer

3.3 Building Remodeling - 2019
Unmitigated Construction On-Site

Category	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
lb/day																
Off-Road	0.2007	2.1091	2.2870	3.2100e-003	0.1274	0.1274	0.1274	0.1172	0.1172	0.1172		317.5540	317.5540	0.1005		320.0658
Total	0.2007	2.1091	2.2870	3.2100e-003	0.1274	0.1274	0.1274	0.1172	0.1172	0.1172		317.5540	317.5540	0.1005		320.0658

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Unmitigated Construction Off-Site

Category	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
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	0.1542	4.5770	1.1064	0.0104	0.2560	0.0303	0.2863	0.0737	0.0290	0.1027		1,104.8788	1,104.8788	0.0731		1,106.7065
Worker	0.0245	0.0170	0.2247	5.9000e-004	0.0559	4.3000e-004	0.0563	0.0148	4.0000e-004	0.0152		59.0495	59.0495	1.8500e-003		59.0956
Total	0.1787	4.5940	1.3311	0.0110	0.3119	0.0308	0.3427	0.0885	0.0294	0.1179		1,163.9283	1,163.9283	0.0750		1,165.8021

3115 Terreno - Project - South Coast AQMD Air District, Summer

3.3 Building Remodeling - 2019

Mitigated Construction On-Site

Category	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
lb/day																
Off-Road	0.2007	2.1091	2.2870	3.2100e-003	0.1274	0.1274	0.1274	0.1172	0.1172	0.1172	0.0000	317.5540	317.5540	0.1005		320.0658
Total	0.2007	2.1091	2.2870	3.2100e-003	0.1274	0.1274	0.1274	0.1172	0.1172	0.1172	0.0000	317.5540	317.5540	0.1005		320.0658

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Mitigated Construction Off-Site

Category	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
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	0.1542	4.5770	1.1064	0.0104	0.2560	0.0303	0.2863	0.0737	0.0290	0.1027		1,104.8788	1,104.8788	0.0731		1,106.7065
Worker	0.0245	0.0170	0.2247	5.9000e-004	0.0559	4.3000e-004	0.0563	0.0148	4.0000e-004	0.0152		59.0495	59.0495	1.8500e-003		59.0956
Total	0.1787	4.5940	1.3311	0.0110	0.3119	0.0308	0.3427	0.0885	0.0294	0.1179		1,163.9283	1,163.9283	0.0750		1,165.8021

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3.4 Paving - 2019

Unmitigated Construction On-Site

Category	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
lb/day																
Off-Road	0.8942	9.1112	8.7587	0.0134		0.5143	0.5143		0.4740	0.4740		1,308.1796	1,308.1796	0.4058		1,318.3256
Paving	0.5968					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.4910	9.1112	8.7587	0.0134		0.5143	0.5143		0.4740	0.4740		1,308.1796	1,308.1796	0.4058		1,318.3256

Unmitigated Construction Off-Site

Category	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
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
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
Worker	0.0637	0.0443	0.5841	1.5400e-003	0.1453	1.1300e-003	0.1464	0.0385	1.0400e-003	0.0396		153.5286	153.5286	4.8000e-003		153.6486
Total	0.0637	0.0443	0.5841	1.5400e-003	0.1453	1.1300e-003	0.1464	0.0385	1.0400e-003	0.0396		153.5286	153.5286	4.8000e-003		153.6486

3115 Terreno - Project - South Coast AQMD Air District, Summer

3.4 Paving - 2019

Mitigated Construction On-Site

Category	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
lb/day																
Off-Road	0.8942	9.1112	8.7587	0.0134		0.5143	0.5143	0.4740	0.4740	0.4740	0.0000	1,308.1796	1,308.1796	0.4058		1,318.3256
Paving	0.5968					0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Total	1.4910	9.1112	8.7587	0.0134		0.5143	0.5143	0.4740	0.4740	0.4740	0.0000	1,308.1796	1,308.1796	0.4058		1,318.3256

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Mitigated Construction Off-Site

Category	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
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
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
Worker	0.0637	0.0443	0.5841	1.5400e-003	0.1453	1.1300e-003	0.1464	0.0385	1.0400e-003	0.0396		153.5286	153.5286	4.8000e-003		153.6486
Total	0.0637	0.0443	0.5841	1.5400e-003	0.1453	1.1300e-003	0.1464	0.0385	1.0400e-003	0.0396		153.5286	153.5286	4.8000e-003		153.6486

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3.5 Architectural Coating - 2019

Unmitigated Construction On-Site

Category	lb/day																
	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	
Archit. Coating	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	0.0000
Off-Road	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	0.0000
Total	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	0.0000

Unmitigated Construction Off-Site

Category	lb/day																
	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	
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	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	0.0000
Worker	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	0.0000
Total	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	0.0000

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3.5 Architectural Coating - 2019

Mitigated Construction On-Site

Category	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
lb/day																
Archit. Coating	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
Off-Road	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
Total	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

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Mitigated Construction Off-Site

Category	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
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	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	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
Total	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

4.0 Operational Detail - Mobile

3115 Terreno - Project - South Coast AQMD Air District, Summer

4.1 Mitigation Measures Mobile

Category	lb/day															
	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
Mitigated	0.4579	18.0322	3.1446	0.0396	0.7710	0.0487	0.8198	0.2109	0.0466	0.2575	4,267.5156	4,267.5156	4,267.5156	0.3597		4,276.5070
Unmitigated	0.4579	18.0322	3.1446	0.0396	0.7710	0.0487	0.8198	0.2109	0.0466	0.2575	4,267.5156	4,267.5156	4,267.5156	0.3597		4,276.5070

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4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated Annual VMT	Mitigated Annual VMT
	Weekday	Saturday	Sunday		
Other Asphalt Surfaces	100.04	100.04	100.04	305,882	305,882
Unrefrigerated Warehouse-No Rail	2.99	2.99	2.99	18,067	18,067
Total	103.03	103.03	103.03	323,949	323,949

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-C	H-O or C-C	H-W or C-NW	H-S or C-C	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Asphalt Surfaces	16.60	6.90	0.00	100.00	100.00	0.00	100	0	0
Unrefrigerated Warehouse-No	16.60	6.90	100.00	0.00	0.00	100.00	100	0	0

4.4 Fleet Mix

3115 Terreno - Project - South Coast AQMD Air District, Summer

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	1.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Unrefrigerated Warehouse-No Rail	0.000000	0.000000	1.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Category	lb/day															
	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
NaturalGas Mitigated	3.3000e-004	3.0400e-003	2.5500e-003	2.0000e-005	2.3000e-004	2.3000e-004	2.3000e-004	2.3000e-004	2.3000e-004	2.3000e-004	3.6455	3.6455	3.6455	7.0000e-005	7.0000e-005	3.6671
NaturalGas Unmitigated	3.3000e-004	3.0400e-003	2.5500e-003	2.0000e-005	2.3000e-004	2.3000e-004	2.3000e-004	2.3000e-004	2.3000e-004	2.3000e-004	3.6455	3.6455	3.6455	7.0000e-005	7.0000e-005	3.6671

3115 Terreno - Project - South Coast AQMD Air District, Summer

5.2 Energy by Land Use - Natural Gas

Unmitigated

Land Use	Natural Gas Use kBTU/yr	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
lb/day																	
Other Asphalt Surfaces	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
Unrefrigerated Warehouse-No Rail	30.9863	3.3000e-004	3.0400e-003	2.5500e-003	2.0000e-005	2.3000e-004	2.3000e-004	2.3000e-004	2.3000e-004	2.3000e-004	2.3000e-004	3.6455	3.6455	3.6455	7.0000e-005	7.0000e-005	3.6671
Total		3.3000e-004	3.0400e-003	2.5500e-003	2.0000e-005	2.3000e-004	2.3000e-004	2.3000e-004	2.3000e-004	2.3000e-004	2.3000e-004	3.6455	3.6455	3.6455	7.0000e-005	7.0000e-005	3.6671

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Mitigated

Land Use	Natural Gas Use kBTU/yr	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
lb/day																	
Other Asphalt Surfaces	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
Unrefrigerated Warehouse-No Rail	0.0309863	3.3000e-004	3.0400e-003	2.5500e-003	2.0000e-005	2.3000e-004	2.3000e-004	2.3000e-004	2.3000e-004	2.3000e-004	2.3000e-004	3.6455	3.6455	3.6455	7.0000e-005	7.0000e-005	3.6671
Total		3.3000e-004	3.0400e-003	2.5500e-003	2.0000e-005	2.3000e-004	2.3000e-004	2.3000e-004	2.3000e-004	2.3000e-004	2.3000e-004	3.6455	3.6455	3.6455	7.0000e-005	7.0000e-005	3.6671

6.0 Area Detail

6.1 Mitigation Measures Area

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Category	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
lb/day																
Mitigated	0.3675	2.0000e-005	1.7600e-003	0.0000	1.0000e-005	1.0000e-005	1.0000e-005	1.0000e-005	1.0000e-005	1.0000e-005	3.7400e-003	3.7400e-003	3.7400e-003	1.0000e-005		4.0000e-003
Unmitigated	0.3675	2.0000e-005	1.7600e-003	0.0000	1.0000e-005	1.0000e-005	1.0000e-005	1.0000e-005	1.0000e-005	1.0000e-005	3.7400e-003	3.7400e-003	3.7400e-003	1.0000e-005		4.0000e-003

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6.2 Area by SubCategory

Unmitigated

SubCategory	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
lb/day																
Architectural Coating	0.0466					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.3207					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.7000e-004	2.0000e-005	1.7600e-003	0.0000	1.0000e-005	1.0000e-005	1.0000e-005	1.0000e-005	1.0000e-005	1.0000e-005		3.7400e-003	3.7400e-003	1.0000e-005		4.0000e-003
Total	0.3675	2.0000e-005	1.7600e-003	0.0000	1.0000e-005	1.0000e-005	1.0000e-005	1.0000e-005	1.0000e-005	1.0000e-005		3.7400e-003	3.7400e-003	1.0000e-005		4.0000e-003

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6.2 Area by SubCategory

Mitigated

SubCategory	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
	lb/day															
Architectural Coating	0.0466				0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Consumer Products	0.3207				0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Landscaping	1.7000e-004	2.0000e-005	1.7600e-003	0.0000	1.0000e-005	1.0000e-005	1.0000e-005	1.0000e-005	1.0000e-005	1.0000e-005		3.7400e-003	3.7400e-003	1.0000e-005		4.0000e-003
Total	0.3675	2.0000e-005	1.7600e-003	0.0000	1.0000e-005	1.0000e-005	1.0000e-005	1.0000e-005	1.0000e-005	1.0000e-005		3.7400e-003	3.7400e-003	1.0000e-005		4.0000e-003

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7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

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

3115 Terreno - Project - South Coast AQMD Air District, Summer

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

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

Equipment Type	Number
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11.0 Vegetation

3115 Terreno - Project - South Coast AQMD Air District, Winter

3115 Terreno - Project
South Coast AQMD Air District, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	13.00	1000sqft	0.30	13,000.00	0
Other Asphalt Surfaces	4.10	Acre	4.10	178,596.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	9	Operational Year			2019

Utility Company Southern California Edison

CO2 Intensity (lb/MW/hr)	702.44	CH4 Intensity (lb/MW/hr)	0.029	N2O Intensity (lb/MW/hr)	0.006
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1.3 User Entered Comments & Non-Default Data

3115 Terreno - Project - South Coast AQMD Air District, Winter

Project Characteristics -

Land Use - 13,000 ft2 warehouse and 4.1 acre of trailer parking.

Construction Phase - 2 month construction period. Assumes paving and building upgrades are concurrent.

Off-road Equipment - Parking and building coating.

Off-road Equipment - No heavy equipment is expected to be used during remodeling.

Off-road Equipment - Assumes no heavy duty equipment.

Off-road Equipment - Demolition of parking area.

Off-road Equipment - One team of paving equipment.

Trips and VMT - Assumes approximately 5 haul trucks per day for demo. Assumes approximately 25 workers per day during remodel/paving/coating. Upto 40 delivery trucks per day during remodel/paving/coating.

Demolition - Assumes 5 trucks per day during demo.

Architectural Coating - Approximately 4 acres of trailer parking area.

Vehicle Trips - Approximately 100 trucks on a peak day. 3 Workers.

Construction Off-road Equipment Mitigation -

Fleet Mix - 100 percent HHDT for asphalt area. 100 light duty truck for workers.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Parking	10,716.00	178,000.00
tblConstructionPhase	NumDays	230.00	20.00
tblFleetMix	HHH	0.03	1.00
tblFleetMix	HHH	0.03	0.00
tblFleetMix	LDA	0.55	0.00
tblFleetMix	LDA	0.55	0.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT2	0.20	0.00
tblFleetMix	LDT2	0.20	1.00
tblFleetMix	LHD1	0.02	0.00

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tbIFleetMix	LHD1	0.02	0.00
tbIFleetMix	LHD2	5.8700e-003	0.00
tbIFleetMix	LHD2	5.8700e-003	0.00
tbIFleetMix	MCY	4.7240e-003	0.00
tbIFleetMix	MCY	4.7240e-003	0.00
tbIFleetMix	MDV	0.12	0.00
tbIFleetMix	MDV	0.12	0.00
tbIFleetMix	MH	9.9100e-004	0.00
tbIFleetMix	MH	9.9100e-004	0.00
tbIFleetMix	MHD	0.02	0.00
tbIFleetMix	MHD	0.02	0.00
tbIFleetMix	OBUS	1.9990e-003	0.00
tbIFleetMix	OBUS	1.9990e-003	0.00
tbIFleetMix	SBUS	7.0400e-004	0.00
tbIFleetMix	SBUS	7.0400e-004	0.00
tbIFleetMix	UBUS	2.0270e-003	0.00
tbIFleetMix	UBUS	2.0270e-003	0.00
tbOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tbOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tbOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tbOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tbOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tbOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tbOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tbOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tbOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tbOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00

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tblOffRoadEquipment	OffRoadEquipmentUnitAmount		
tblTripsAndVMT	HaulingTripNumber	1.00	0.00
tblTripsAndVMT	VendorTripNumber	0.00	100.00
tblTripsAndVMT	WorkerTripNumber	31.00	40.00
tblTripsAndVMT	WorkerTripNumber	80.00	5.00
tblTripsAndVMT	WorkerTripNumber	16.00	7.00
tblVehicleTrips	CC_TTP	0.00	100.00
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CW_TTP	59.00	100.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	0.00	100.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	0.00	24.40
tblVehicleTrips	ST_TR	1.68	0.23
tblVehicleTrips	SU_TR	0.00	24.40
tblVehicleTrips	SU_TR	1.68	0.23
tblVehicleTrips	WD_TR	0.00	24.40
tblVehicleTrips	WD_TR	1.68	0.23

2.0 Emissions Summary

3115 Terreno - Project - South Coast AQMD Air District, Winter

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

lb/day																
Year	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
2019	2.5598	24.0015	16.3285	0.0319	0.4572	1.2357	1.4348	0.1271	1.1779	1.2315	0.0000	3,139,940 ₄	3,139,940 ₄	0.5911	0.0000	3,153.899 ₁
Maximum	2.5598	24.0015	16.3285	0.0319	0.4572	1.2357	1.4348	0.1271	1.1779	1.2315	0.0000	3,139,940₄	3,139,940₄	0.5911	0.0000	3,153.899₁

Mitigated Construction

lb/day																
Year	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
2019	2.5598	24.0015	16.3285	0.0319	0.4572	1.2357	1.4348	0.1271	1.1779	1.2315	0.0000	3,139,940 ₄	3,139,940 ₄	0.5911	0.0000	3,153.899 ₁
Maximum	2.5598	24.0015	16.3285	0.0319	0.4572	1.2357	1.4348	0.1271	1.1779	1.2315	0.0000	3,139,940₄	3,139,940₄	0.5911	0.0000	3,153.899₁

lb/day																
Year	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
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

3115 Terreno - Project - South Coast AQMD Air District, Winter

2.2 Overall Operational
Unmitigated Operational

Category	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
lb/day																
Area	0.3675	2.000e-005	1.7600e-003	0.0000	1.0000e-005	1.0000e-005	1.0000e-005	1.0000e-005	1.0000e-005	1.0000e-005	3.7400e-003	3.7400e-003	3.7400e-003	1.0000e-005		4.0000e-003
Energy	3.3000e-004	3.0400e-003	2.5500e-003	2.0000e-005	2.3000e-004	2.3000e-004	2.3000e-004	2.3000e-004	2.3000e-004	2.3000e-004	3.6455	3.6455	3.6455	7.0000e-005	7.0000e-005	3.6671
Mobile	0.4817	17.9562	3.6033	0.0381	0.7710	0.0508	0.8218	0.2109	0.0486	0.2595	4,110.731	4,110.731	4,110.731	0.3859		4,120.377
Total	0.8495	17.9592	3.6077	0.0382	0.7710	0.0510	0.8221	0.2109	0.0488	0.2597	4,114.380	4,114.380	4,114.380	0.3859	7.0000e-005	4,124.048

Mitigated Operational

Category	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
lb/day																
Area	0.3675	2.0000e-005	1.7600e-003	0.0000	1.0000e-005	1.0000e-005	1.0000e-005	1.0000e-005	1.0000e-005	1.0000e-005	3.7400e-003	3.7400e-003	3.7400e-003	1.0000e-005		4.0000e-003
Energy	3.3000e-004	3.0400e-003	2.5500e-003	2.0000e-005	2.3000e-004	2.3000e-004	2.3000e-004	2.3000e-004	2.3000e-004	2.3000e-004	3.6455	3.6455	3.6455	7.0000e-005	7.0000e-005	3.6671
Mobile	0.4817	17.9562	3.6033	0.0381	0.7710	0.0508	0.8218	0.2109	0.0486	0.2595	4,110.731	4,110.731	4,110.731	0.3859		4,120.377
Total	0.8495	17.9592	3.6077	0.0382	0.7710	0.0510	0.8221	0.2109	0.0488	0.2597	4,114.380	4,114.380	4,114.380	0.3859	7.0000e-005	4,124.048

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	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
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	Demolition	Demolition	1/1/2019	2/7/2019	5	20	
2	Building Remodeling	Building Construction	2/8/2019	3/7/2019	5	20	
3	Paving	Paving	2/8/2019	3/5/2019	5	18	
4	Architectural Coating	Architectural Coating	2/8/2019	2/7/2019	5	18	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 4.1

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 19,500; Non-Residential Outdoor: 6,500; Striped Parking Area: 178,000 (Architectural Coating – sqft)

OffRoad Equipment

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Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Crushing/Proc. Equipment	1	8.00	85	0.78
Demolition	Excavators	1	8.00	158	0.38
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Building Remodeling	Aerial Lifts	1	8.00	63	0.31
Building Remodeling	Cranes	0	7.00	231	0.29
Building Remodeling	Forklifts	1	8.00	89	0.20
Building Remodeling	Generator Sets	0	8.00	84	0.74
Building Remodeling	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Building Remodeling	Welders	0	8.00	46	0.45
Paving	Cement and Mortar Mixers	1	6.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	1	6.00	132	0.36
Paving	Rollers	1	6.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	2	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
Demolition	4	10.00	0.00	100.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Remodeling	2	5.00	40.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	13.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	2	7.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3115 Terreno - Project - South Coast AQMD Air District, Winter

Water Exposed Area

3.2 Demolition - 2019

Unmitigated Construction On-Site

Category	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
lb/day																
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	2.4642	22.4889	15.6216	0.0270	1.2293	1.2293	1.2293	1.1719	1.1719	1.1719		2,613.7499	2,613.7499	0.5247		2,626.8675
Total	2.4642	22.4889	15.6216	0.0270	0.0000	1.2293	1.2293	0.0000	1.1719	1.1719		2,613.7499	2,613.7499	0.5247		2,626.8675

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Unmitigated Construction Off-Site

Category	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
lb/day																
Hauling	0.0423	1.4752	0.3014	3.8500e-003	0.0874	5.5000e-003	0.0929	0.0239	5.2600e-003	0.0292		415.7250	415.7250	0.0302		416.4798
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	0.0533	0.0373	0.4054	1.1100e-003	0.1118	8.7000e-004	0.1127	0.0296	8.0000e-004	0.0305		110.4656	110.4656	3.4500e-003		110.5519
Total	0.0956	1.5125	0.7068	4.9600e-003	0.1992	6.3700e-003	0.2055	0.0536	6.0600e-003	0.0597		526.1906	526.1906	0.0336		527.0316

3115 Terreno - Project - South Coast AQMD Air District, Winter

3.2 Demolition - 2019

Mitigated Construction On-Site

Category	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
lb/day																
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	2.4642	22.4889	15.6216	0.0270	1.2293	1.2293	1.2293	1.1719	1.1719	1.1719	0.0000	2.613.749 ₉	2.613.749 ₉	0.5247		2.626.867 ₄
Total	2.4642	22.4889	15.6216	0.0270	0.0000	1.2293	1.2293	0.0000	1.1719	1.1719	0.0000	2.613.749₉	2.613.749₉	0.5247		2.626.867₄

Mitigated Construction Off-Site

Category	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
lb/day																
Hauling	0.0423	1.4752	0.3014	3.8500e-003	0.0874	5.5000e-003	0.0929	0.0239	5.2600e-003	0.0292		415.7250	415.7250	0.0302		416.4798
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	0.0533	0.0373	0.4054	1.1100e-003	0.1118	8.7000e-004	0.1127	0.0296	8.0000e-004	0.0305		110.4656	110.4656	3.4500e-003		110.5519
Total	0.0956	1.5125	0.7068	4.9600e-003	0.1992	6.3700e-003	0.2055	0.0536	6.0600e-003	0.0597		526.1906	526.1906	0.0336		527.0316

3115 Terreno - Project - South Coast AQMD Air District, Winter

3.3 Building Remodeling - 2019

Unmitigated Construction On-Site

Category	lb/day															
	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
Off-Road	0.2007	2.1091	2.2870	3.2100e-003	0.1274	0.1274	0.1274	0.1172	0.1172	0.1172		317.5540	317.5540	0.1005		320.0658
Total	0.2007	2.1091	2.2870	3.2100e-003	0.1274	0.1274	0.1274	0.1172	0.1172	0.1172		317.5540	317.5540	0.1005		320.0658

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Unmitigated Construction Off-Site

Category	lb/day															
	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
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	0.1611	4.5802	1.2322	0.0101	0.2560	0.0308	0.2868	0.0737	0.0295	0.1032		1,073.2651	1,073.2651	0.0786		1,075.2290
Worker	0.0267	0.0187	0.2027	5.5000e-004	0.0559	4.3000e-004	0.0563	0.0148	4.0000e-004	0.0152		55.2328	55.2328	1.7300e-003		55.2759
Total	0.1878	4.5988	1.4349	0.0106	0.3119	0.0312	0.3431	0.0885	0.0299	0.1184		1,128.4979	1,128.4979	0.0803		1,130.5050

3115 Terreno - Project - South Coast AQMD Air District, Winter

3.3 Building Remodeling - 2019

Mitigated Construction On-Site

Category	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
lb/day																
Off-Road	0.2007	2.1091	2.2870	3.2100e-003	0.1274	0.1274	0.1274	0.1172	0.1172	0.1172	0.0000	317.5540	317.5540	0.1005		320.0658
Total	0.2007	2.1091	2.2870	3.2100e-003	0.1274	0.1274	0.1274	0.1172	0.1172	0.1172	0.0000	317.5540	317.5540	0.1005		320.0658

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Mitigated Construction Off-Site

Category	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
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	0.1611	4.5802	1.2322	0.0101	0.2560	0.0308	0.2868	0.0737	0.0295	0.1032		1,073.2651	1,073.2651	0.0786		1,075.2290
Worker	0.0267	0.0187	0.2027	5.5000e-004	0.0559	4.3000e-004	0.0563	0.0148	4.0000e-004	0.0152		55.2328	55.2328	1.7300e-003		55.2759
Total	0.1878	4.5988	1.4349	0.0106	0.3119	0.0312	0.3431	0.0885	0.0299	0.1184		1,128.4979	1,128.4979	0.0803		1,130.5050

3115 Terreno - Project - South Coast AQMD Air District, Winter

3.4 Paving - 2019

Unmitigated Construction On-Site

Category	lb/day															
	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
Off-Road	0.8942	9.1112	8.7587	0.0134		0.5143	0.5143		0.4740	0.4740		1,308.1796	1,308.1796	0.4058		1,318.3256
Paving	0.5968					0.0000	0.0000		0.0000	0.0000		0.0000	0.0000			0.0000
Total	1.4910	9.1112	8.7587	0.0134		0.5143	0.5143		0.4740	0.4740		1,308.1796	1,308.1796	0.4058		1,318.3256

Unmitigated Construction Off-Site

Category	lb/day															
	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
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	0.0693	0.0485	0.5270	1.4400e-003	0.1453	1.1300e-003	0.1464	0.0385	1.0400e-003	0.0396		143.6053	143.6053	4.4900e-003		143.7174
Total	0.0693	0.0485	0.5270	1.4400e-003	0.1453	1.1300e-003	0.1464	0.0385	1.0400e-003	0.0396		143.6053	143.6053	4.4900e-003		143.7174

3115 Terreno - Project - South Coast AQMD Air District, Winter

3.4 Paving - 2019

Mitigated Construction On-Site

Category	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
lb/day																
Off-Road	0.8942	9.1112	8.7587	0.0134		0.5143	0.5143	0.4740	0.4740	0.4740	0.0000	1,308.1796	1,308.1796	0.4058		1,318.3256
Paving	0.5968					0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Total	1.4910	9.1112	8.7587	0.0134		0.5143	0.5143	0.4740	0.4740	0.4740	0.0000	1,308.1796	1,308.1796	0.4058		1,318.3256

Mitigated Construction Off-Site

Category	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
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
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
Worker	0.0693	0.0485	0.5270	1.4400e-003	0.1453	1.1300e-003	0.1464	0.0385	1.0400e-003	0.0396		143.6053	143.6053	4.4900e-003		143.7174
Total	0.0693	0.0485	0.5270	1.4400e-003	0.1453	1.1300e-003	0.1464	0.0385	1.0400e-003	0.0396		143.6053	143.6053	4.4900e-003		143.7174

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3.5 Architectural Coating - 2019

Unmitigated Construction On-Site

Category	lb/day																
	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	
Archit. Coating	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	0.0000
Off-Road	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	0.0000
Total	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	0.0000

Unmitigated Construction Off-Site

Category	lb/day																
	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	
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	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	0.0000
Worker	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	0.0000
Total	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	0.0000

3115 Terreno - Project - South Coast AQMD Air District, Winter

3.5 Architectural Coating - 2019

Mitigated Construction On-Site

Category	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
lb/day																
Archit. Coating	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
Off-Road	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
Total	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

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Mitigated Construction Off-Site

Category	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
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	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	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
Total	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

4.0 Operational Detail - Mobile

3115 Terreno - Project - South Coast AQMD Air District, Winter

4.1 Mitigation Measures Mobile

Category	lb/day															
	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
Mitigated	0.4817	17.9562	3.6033	0.0381	0.7710	0.0508	0.8218	0.2109	0.0486	0.2595	4,110.731	2	4,110.731	0.3859		4,120.377
Unmitigated	0.4817	17.9562	3.6033	0.0381	0.7710	0.0508	0.8218	0.2109	0.0486	0.2595	4,110.731	2	4,110.731	0.3859		4,120.377

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4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated Annual VMT	Mitigated Annual VMT
	Weekday	Saturday	Sunday		
Other Asphalt Surfaces	100.04	100.04	100.04	305,882	305,882
Unrefrigerated Warehouse-No Rail	2.99	2.99	2.99	18,067	18,067
Total	103.03	103.03	103.03	323,949	323,949

4.3 Trip Type Information

Land Use	Miles				Trip %				Trip Purpose %			
	H-W or C-C	H-O or C-C	H-W or C-W	H-O or C-NW	H-S or C-C	H-S or C-C	H-W or C-C	H-O or C-NW	Primary	Diverted	Pass-by	
Other Asphalt Surfaces	16.60	6.90	0.00	6.90	100.00	100.00	0.00	0.00	100	0	0	
Unrefrigerated Warehouse-No	16.60	6.90	100.00	6.90	0.00	0.00	100.00	0.00	100	0	0	

4.4 Fleet Mix

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Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	1.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Unrefrigerated Warehouse-No Rail	0.000000	0.000000	1.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Category	lb/day															
	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
NaturalGas Mitigated	3.3000e-004	3.0400e-003	2.5500e-003	2.0000e-005	2.3000e-004	2.3000e-004	2.3000e-004	2.3000e-004	2.3000e-004	2.3000e-004	3.6455	3.6455	3.6455	7.0000e-005	7.0000e-005	3.6671
NaturalGas Unmitigated	3.3000e-004	3.0400e-003	2.5500e-003	2.0000e-005	2.3000e-004	2.3000e-004	2.3000e-004	2.3000e-004	2.3000e-004	2.3000e-004	3.6455	3.6455	3.6455	7.0000e-005	7.0000e-005	3.6671

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5.2 Energy by Land Use - Natural Gas

Unmitigated

Land Use	Natural Gas Use kBTU/yr	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
lb/day																	
Other Asphalt Surfaces	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	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	30.9863	3.3000e-004	3.0400e-003	2.5500e-003	2.0000e-005	2.3000e-004	2.3000e-004	2.3000e-004	2.3000e-004	2.3000e-004	2.3000e-004	3.6455	3.6455	3.6455	7.0000e-005	7.0000e-005	3.6671
Total		3.3000e-004	3.0400e-003	2.5500e-003	2.0000e-005	2.3000e-004	2.3000e-004	2.3000e-004	2.3000e-004	2.3000e-004	2.3000e-004	3.6455	3.6455	3.6455	7.0000e-005	7.0000e-005	3.6671

Mitigated

Land Use	Natural Gas Use kBTU/yr	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
lb/day																	
Other Asphalt Surfaces	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	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0.0309863	3.3000e-004	3.0400e-003	2.5500e-003	2.0000e-005	2.3000e-004	2.3000e-004	2.3000e-004	2.3000e-004	2.3000e-004	2.3000e-004	3.6455	3.6455	3.6455	7.0000e-005	7.0000e-005	3.6671
Total		3.3000e-004	3.0400e-003	2.5500e-003	2.0000e-005	2.3000e-004	2.3000e-004	2.3000e-004	2.3000e-004	2.3000e-004	2.3000e-004	3.6455	3.6455	3.6455	7.0000e-005	7.0000e-005	3.6671

6.0 Area Detail

6.1 Mitigation Measures Area

3115 Terreno - Project - South Coast AQMD Air District, Winter

Category	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
lb/day																
Mitigated	0.3675	2.0000e-005	1.7600e-003	0.0000	1.0000e-005	1.0000e-005	1.0000e-005	1.0000e-005	1.0000e-005	1.0000e-005	3.7400e-003	3.7400e-003	3.7400e-003	1.0000e-005		4.0000e-003
Unmitigated	0.3675	2.0000e-005	1.7600e-003	0.0000	1.0000e-005	1.0000e-005	1.0000e-005	1.0000e-005	1.0000e-005	1.0000e-005	3.7400e-003	3.7400e-003	3.7400e-003	1.0000e-005		4.0000e-003

6.2 Area by SubCategory

Unmitigated

SubCategory	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
lb/day																
Architectural Coating	0.0466					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.3207					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.7000e-004	2.0000e-005	1.7600e-003	0.0000	1.0000e-005	1.0000e-005	1.0000e-005	1.0000e-005	1.0000e-005	1.0000e-005		3.7400e-003	3.7400e-003	1.0000e-005		4.0000e-003
Total	0.3675	2.0000e-005	1.7600e-003	0.0000	1.0000e-005	1.0000e-005	1.0000e-005	1.0000e-005	1.0000e-005	1.0000e-005		3.7400e-003	3.7400e-003	1.0000e-005		4.0000e-003

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6.2 Area by SubCategory

Mitigated

SubCategory	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
	lb/day															
Architectural Coating	0.0466				0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Consumer Products	0.3207				0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Landscaping	1.7000e-004	2.0000e-005	1.7600e-003	0.0000	1.0000e-005	1.0000e-005	1.0000e-005	1.0000e-005	1.0000e-005	1.0000e-005		3.7400e-003	3.7400e-003	1.0000e-005		4.0000e-003
Total	0.3675	2.0000e-005	1.7600e-003	0.0000	1.0000e-005	1.0000e-005	1.0000e-005	1.0000e-005	1.0000e-005	1.0000e-005		3.7400e-003	3.7400e-003	1.0000e-005		4.0000e-003

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7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

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

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

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

Equipment Type	Number
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11.0 Vegetation

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