

APPENDIX A

CalEEMod DATA

Table A-1
 Rock Crushing Operation
 Generator Emissions
 Otay Ranch Resort Village

	Number	Kilowatts	Horsepower	Emission Factors, lbs/hr								
				CO	ROC	NOx	SOx	PM10	CO2			
Crusher Generator	1	300	400	7.23E-01	1.82E-01	2.3955	3.30E-03	6.90E-02	3.37E+02			
Total												

Table A-2
 Rock Crushing Emissions
 Otay Ranch Resort Village

K-8 PM Crushing Emissions

Source: EPA's AP-42 Emission Factors, Section 11.19.2, Crushed Stone Processing

Assumptions - 91,200 cubic yards of material, assume 1.6 tons per cubic yard

Total crushed material = 2,392 tons

Days of Crushing 49

Emission Factors			
Tertiary crushing		0.0024	lbs/ton
Conveyor Transfer		0.001	lbs/ton
Truck unloading, fragmented stone		1.60E-05	lbs/ton
Total Emissions		PM10	PM2.5
Tons/year		4.09E-03	1.23E-03
Max Daily Emissions		1.67	5.00E-01

Assume PM2.5 is 30% of PM10 based on SCAQMD PM2.5 guidance

Otay Ranch Village 13 San Diego Air Basin, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Government Office Building	10.00	1000sqft	2.10	10,000.00	0
Elementary School	600.00	Student	10.00	50,162.02	0
City Park	29.70	Acre	29.70	1,293,732.00	0
Hotel	200.00	Room	17.40	290,400.00	0
Condo/Townhouse	57.00	Dwelling Unit	13.10	57,000.00	163
Single Family Housing	1,881.00	Dwelling Unit	540.20	3,385,800.00	5380
Strip Mall	40.00	1000sqft	1.00	40,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2025
Utility Company					
CO2 Intensity (lb/MW hr)	0	CH4 Intensity (lb/MW hr)	0	N2O Intensity (lb/MW hr)	0

1.3 User Entered Comments & Non-Default Data

Area Coating - Rule 67.0 coatings
 Construction Off-road Equipment Mitigation -
 Mobile Land Use Mitigation -

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	150
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	250	100
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	250	150
tblAreaMitigation	UseLowVOCPaintResidentialInteriorValue	250	100
tblConstructionPhase	NumDays	770.00	0.00
tblConstructionPhase	NumDays	10,850.00	0.00
tblConstructionPhase	NumDays	700.00	0.00
tblConstructionPhase	NumDays	1,085.00	0.00
tblConstructionPhase	NumDays	770.00	0.00
tblConstructionPhase	NumDays	420.00	0.00
tblConstructionPhase	PhaseEndDate	12/31/2015	12/31/2010
tblConstructionPhase	PhaseStartDate	1/1/2011	1/2/2011
tblConstructionPhase	PhaseStartDate	1/1/2011	1/2/2011
tblConstructionPhase	PhaseStartDate	1/1/2016	1/2/2011
tblConstructionPhase	PhaseStartDate	1/1/2011	1/2/2011
tblConstructionPhase	PhaseStartDate	1/1/2011	1/2/2011
tblConstructionPhase	PhaseStartDate	1/1/2011	1/2/2011
tblFireplaces	NumberGas	31.35	57.00
tblFireplaces	NumberGas	1,034.55	1,881.00
tblFireplaces	NumberWood	19.95	0.00
tblFireplaces	NumberWood	658.35	0.00
tblLandUse	LotAcreage	0.23	2.10
tblLandUse	LotAcreage	1.15	10.00
tblLandUse	LotAcreage	6.67	17.40
tblLandUse	LotAcreage	3.56	13.10
tblLandUse	LotAcreage	610.71	540.20

tblLandUse	LotAcreage	0.92	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00
tblOffRoadEquipment	UsageHours	7.00	4.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	7.00
tblOffRoadEquipment	UsageHours	8.00	7.00
tblOffRoadEquipment	UsageHours	8.00	1.00
tblOffRoadEquipment	UsageHours	8.00	1.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblProjectCharacteristics	OperationalYear	2014	2025
tblTripsAndVMT	WorkerTripNumber	18.00	10.00
tblTripsAndVMT	WorkerTripNumber	13.00	5.00
tblTripsAndVMT	WorkerTripNumber	23.00	10.00
tblTripsAndVMT	WorkerTripNumber	1,421.00	0.00
tblTripsAndVMT	WorkerTripNumber	23.00	18.00
tblTripsAndVMT	WorkerTripNumber	284.00	0.00
tblVehicleTrips	ST_TR	1.59	5.00
tblVehicleTrips	ST_TR	7.16	8.00
tblVehicleTrips	ST_TR	0.00	48.10
tblVehicleTrips	ST_TR	8.19	8.00
tblVehicleTrips	ST_TR	10.08	10.00
tblVehicleTrips	ST_TR	42.04	120.00

2.2 Overall Operational**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	157.4210	1.8410	160.0308	8.4500e-003		3.4859	3.4859		3.4585	3.4585	0.0000	41,328.0869	41,328.0869	1.0628	0.7524	41,583.6495
Energy	2.1003	18.2428	9.7984	0.1146		1.4511	1.4511		1.4511	1.4511		22,912.5057	22,912.5057	0.4392	0.4201	23,051.9474
Mobile	64.9262	110.0408	604.4553	2.1632	145.0789	2.3078	147.3867	38.7248	2.1311	40.8559		156,323.3781	156,323.3781	5.1098		156,430.6828
Total	224.4475	130.1246	774.2844	2.2862	145.0789	7.2448	152.3236	38.7248	7.0407	45.7655	0.0000	220,563.9707	220,563.9707	6.6117	1.1725	221,066.2798

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	128.1070	1.8296	158.8794	8.3600e-003		3.4791	3.4791		3.4517	3.4517	0.0000	41,325.4910	41,325.4910	1.0588	0.7524	41,580.9708
Energy	1.8493	16.0617	8.6206	0.1009		1.2777	1.2777		1.2777	1.2777		20,174.2478	20,174.2478	0.3867	0.3699	20,297.0249
Mobile	62.6391	100.5410	555.8583	1.9348	129.2653	2.0843	131.3496	34.5038	1.9248	36.4286		139,817.8016	139,817.8016	4.6072		139,914.5535
Total	192.5954	118.4322	723.3583	2.0440	129.2653	6.8411	136.1064	34.5038	6.6542	41.1580	0.0000	201,317.5404	201,317.5404	6.0528	1.1223	201,792.5492

	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	14.19	8.99	6.58	10.59	10.90	5.57	10.65	10.90	5.49	10.07	0.00	8.73	8.73	8.45	4.28	8.72

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	1/2/2011	12/31/2010	5	0	
2	Site Preparation	Site Preparation	1/2/2011	12/31/2010	5	0	
3	Grading	Grading	1/2/2011	12/31/2010	5	0	
4	Building Construction	Building Construction	1/2/2011	12/31/2010	5	0	
5	Paving	Paving	1/2/2011	12/31/2010	5	0	
6	Architectural Coating	Architectural Coating	1/2/2011	12/31/2010	5	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 6,971,670; Residential Outdoor: 2,323,890; Non-Residential Indoor: 2,526,441; Non-Residential Outdoor: 842,147
(Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Concrete/Industrial Saws	1	8.00	81	0.73
Building Construction	Cranes	1	4.00	226	0.29
Building Construction	Forklifts	2	6.00	89	0.20
Site Preparation	Graders	1	8.00	174	0.41
Paving	Pavers	1	7.00	125	0.42
Paving	Rollers	1	7.00	80	0.38
Demolition	Rubber Tired Dozers	1	1.00	255	0.40
Grading	Rubber Tired Dozers	1	1.00	255	0.40
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Demolition	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Demolition	Excavators	3	8.00	162	0.38
Grading	Excavators	2	8.00	162	0.38
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Graders	1	8.00	174	0.41
Paving	Paving Equipment	2	8.00	130	0.36
Site Preparation	Rubber Tired Dozers	3	8.00	255	0.40
Grading	Scrapers	2	8.00	361	0.48
Building Construction	Welders	1	8.00	46	0.45

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	7	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	5	5.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	9	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	0.00	483.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	9	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Density

Increase Diversity

Improve Walkability Design

Increase Transit Accessibility

Improve Pedestrian Network

Provide Traffic Calming Measures

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Unmitigated	64.9262	110.0408	604.4553	2.1632	145.0789	2.3078	147.3867	38.7248	2.1311	40.8559		156,323.3781	156,323.3781	5.1098		156,430.6828
Mitigated	62.6391	100.5410	555.8583	1.9348	129.2653	2.0843	131.3496	34.5038	1.9248	36.4286		139,817.8016	139,817.8016	4.6072		139,914.5535

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	148.50	148.50	148.50	317,026	282,470
Condo/Townhouse	456.00	456.00	456.00	1,302,018	1,160,098
Elementary School	900.00	0.00	0.00	1,417,461	1,262,958
Government Office Building	481.00	481.00	481.00	824,857	734,948
Hotel	1,600.00	1,600.00	1600.00	3,039,889	2,708,541
Single Family Housing	18,810.00	18,810.00	18810.00	53,708,256	47,854,056
Strip Mall	4,800.00	4,800.00	4800.00	7,392,159	6,586,413
Total	27,195.50	26,295.50	26,295.50	68,001,666	60,589,485

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
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
Condo/Townhouse	10.80	7.30	7.50	41.60	18.80	39.60	86	11	3
Elementary School	9.50	7.30	7.30	65.00	30.00	5.00	63	25	12
Government Office Building	9.50	7.30	7.30	33.00	62.00	5.00	50	34	16
Hotel	9.50	7.30	7.30	19.40	61.60	19.00	58	38	4
Single Family Housing	10.80	7.30	7.50	41.60	18.80	39.60	86	11	3
Strip Mall	9.50	7.30	7.30	16.60	64.40	19.00	45	40	15

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.511923	0.073395	0.191568	0.130918	0.036235	0.005199	0.012665	0.023708	0.001889	0.002027	0.006511	0.000534	0.003431

5.0 Energy Detail

5.1 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Install Energy Efficient Appliances

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	1.8493	16.0617	8.6206	0.1009		1.2777	1.2777		1.2777	1.2777		20,174.2478	20,174.2478	0.3867	0.3699	20,297.0249
NaturalGas Unmitigated	2.1003	18.2428	9.7984	0.1146		1.4511	1.4511		1.4511	1.4511		22,912.5057	22,912.5057	0.4392	0.4201	23,051.9474

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
City Park	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
Condo/Townhouse	2153.67	0.0232	0.1985	0.0845	1.2700e-003		0.0161	0.0161		0.0161	0.0161		253.3730	253.3730	4.8600e-003	4.6500e-003	254.9150
Elementary School	852.067	9.1900e-003	0.0835	0.0702	5.0000e-004		6.3500e-003	6.3500e-003		6.3500e-003	6.3500e-003		100.2432	100.2432	1.9200e-003	1.8400e-003	100.8533
Government Office Building	576.164	6.2100e-003	0.0565	0.0475	3.4000e-004		4.2900e-003	4.2900e-003		4.2900e-003	4.2900e-003		67.7841	67.7841	1.3000e-003	1.2400e-003	68.1966
Hotel	48413.3	0.5221	4.7464	3.9870	0.0285		0.3607	0.3607		0.3607	0.3607		5,695.6777	5,695.6777	0.1092	0.1044	5,730.3406
Single Family Housing	142510	1.5369	13.1333	5.5886	0.0838		1.0618	1.0618		1.0618	1.0618		16,765.9032	16,765.9032	0.3214	0.3074	16,867.9377
Strip Mall	250.959	2.7100e-003	0.0246	0.0207	1.5000e-004		1.8700e-003	1.8700e-003		1.8700e-003	1.8700e-003		29.5246	29.5246	5.7000e-004	5.4000e-004	29.7043
Total		2.1003	18.2428	9.7984	0.1146		1.4511	1.4511		1.4511	1.4511		22,912.5058	22,912.5058	0.4392	0.4201	23,051.9474

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
City Park	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
Condo/Townhouse	1.90093	0.0205	0.1752	0.0746	1.1200e-003		0.0142	0.0142		0.0142	0.0142		223.6389	223.6389	4.2900e-003	4.1000e-003	225.0000
Elementary School	0.734152	7.9200e-003	0.0720	0.0605	4.3000e-004		5.4700e-003	5.4700e-003		5.4700e-003	5.4700e-003		86.3708	86.3708	1.6600e-003	1.5800e-003	86.8965
Government Office Building	0.507	5.4700e-003	0.0497	0.0418	3.0000e-004		3.7800e-003	3.7800e-003		3.7800e-003	3.7800e-003		59.6471	59.6471	1.1400e-003	1.0900e-003	60.0101
Hotel	42.476	0.4581	4.1643	3.4980	0.0250		0.3165	0.3165		0.3165	0.3165		4,997.1733	4,997.1733	0.0958	0.0916	5,027.5852
Single Family Housing	125.632	1.3549	11.5778	4.9267	0.0739		0.9361	0.9361		0.9361	0.9361		14,780.2138	14,780.2138	0.2833	0.2710	14,870.1637
Strip Mall	0.231233	2.4900e-003	0.0227	0.0190	1.4000e-004		1.7200e-003	1.7200e-003		1.7200e-003	1.7200e-003		27.2039	27.2039	5.2000e-004	5.0000e-004	27.3694
Total		1.8493	16.0617	8.6206	0.1009		1.2777	1.2777		1.2777	1.2777		20,174.2478	20,174.2478	0.3867	0.3699	20,297.0249

6.0 Area Detail

6.1 Mitigation Measures Area

Use Electric Lawnmower

Use Electric Leafblower

Use Electric Chainsaw

Use Low VOC Paint - Residential Interior

Use Low VOC Paint - Residential Exterior

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

Use Low VOC Cleaning Supplies

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Unmitigated	157.4210	1.8410	160.0308	8.4500e-003		3.4859	3.4859		3.4585	3.4585	0.0000	41,328.0869	41,328.0869	1.0628	0.7524	41,583.6495
Mitigated	128.1070	1.8296	158.8794	8.3600e-003		3.4791	3.4791		3.4517	3.4517	0.0000	41,325.4910	41,325.4910	1.0588	0.7524	41,580.9708

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	39.1349					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	109.7198					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	3.7620	1.7000e-004	0.2052	0.0000		2.5992	2.5992		2.5718	2.5718	0.0000	41,040.0000	41,040.0000	0.7866	0.7524	41,289.7626
Landscaping	4.8043	1.8408	159.8256	8.4500e-003		0.8867	0.8867		0.8867	0.8867		288.0869	288.0869	0.2762		293.8869
Total	157.4210	1.8410	160.0308	8.4500e-003		3.4859	3.4859		3.4585	3.4585	0.0000	41,328.0869	41,328.0869	1.0628	0.7524	41,583.6495

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	18.0919					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	101.5165					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	3.7620	1.7000e-004	0.2052	0.0000		2.5992	2.5992		2.5718	2.5718	0.0000	41,040.0000	41,040.0000	0.7866	0.7524	41,289.7626
Landscaping	4.7366	1.8294	158.6742	8.3600e-003		0.8799	0.8799		0.8799	0.8799		285.4910	285.4910	0.2722		291.2082
Total	128.1070	1.8296	158.8794	8.3600e-003		3.4791	3.4791		3.4517	3.4517	0.0000	41,325.4910	41,325.4910	1.0588	0.7524	41,580.9708

7.0 Water Detail

7.1 Mitigation Measures Water

- Install Low Flow Bathroom Faucet
- Install Low Flow Kitchen Faucet
- Install Low Flow Toilet
- Install Low Flow Shower
- Use Water Efficient Irrigation System

8.0 Waste Detail

8.1 Mitigation Measures Waste

- Institute Recycling and Composting Services

9.0 Operational Offroad

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

Otay Ranch Village 13
San Diego Air Basin, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Government Office Building	10.00	1000sqft	2.10	10,000.00	0
Elementary School	600.00	Student	10.00	50,162.02	0
City Park	29.70	Acre	29.70	1,293,732.00	0
Hotel	200.00	Room	17.40	290,400.00	0
Condo/Townhouse	57.00	Dwelling Unit	13.10	57,000.00	163
Single Family Housing	1,881.00	Dwelling Unit	540.20	3,385,800.00	5380
Strip Mall	40.00	1000sqft	1.00	40,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2025
Utility Company					
CO2 Intensity (lb/MW hr)	0	CH4 Intensity (lb/MW hr)	0	N2O Intensity (lb/MW hr)	0

1.3 User Entered Comments & Non-Default Data

Area Coating - Rule 67.0 coatings
 Construction Off-road Equipment Mitigation -
 Mobile Land Use Mitigation -

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	150
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	250	100
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	250	150
tblAreaMitigation	UseLowVOCPaintResidentialInteriorValue	250	100
tblConstructionPhase	NumDays	770.00	0.00
tblConstructionPhase	NumDays	10,850.00	0.00
tblConstructionPhase	NumDays	700.00	0.00
tblConstructionPhase	NumDays	1,085.00	0.00
tblConstructionPhase	NumDays	770.00	0.00
tblConstructionPhase	NumDays	420.00	0.00
tblConstructionPhase	PhaseEndDate	12/31/2015	12/31/2010
tblConstructionPhase	PhaseStartDate	1/1/2011	1/2/2011
tblConstructionPhase	PhaseStartDate	1/1/2011	1/2/2011
tblConstructionPhase	PhaseStartDate	1/1/2016	1/2/2011
tblConstructionPhase	PhaseStartDate	1/1/2011	1/2/2011
tblConstructionPhase	PhaseStartDate	1/1/2011	1/2/2011
tblConstructionPhase	PhaseStartDate	1/1/2011	1/2/2011
tblFireplaces	NumberGas	31.35	57.00
tblFireplaces	NumberGas	1,034.55	1,881.00
tblFireplaces	NumberWood	19.95	0.00
tblFireplaces	NumberWood	658.35	0.00
tblLandUse	LotAcreage	0.23	2.10
tblLandUse	LotAcreage	1.15	10.00
tblLandUse	LotAcreage	6.67	17.40
tblLandUse	LotAcreage	3.56	13.10
tblLandUse	LotAcreage	610.71	540.20

tblLandUse	LotAcreage	0.92	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00
tblOffRoadEquipment	UsageHours	7.00	4.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	7.00
tblOffRoadEquipment	UsageHours	8.00	7.00
tblOffRoadEquipment	UsageHours	8.00	1.00
tblOffRoadEquipment	UsageHours	8.00	1.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblProjectCharacteristics	OperationalYear	2014	2025
tblTripsAndVMT	WorkerTripNumber	18.00	10.00
tblTripsAndVMT	WorkerTripNumber	13.00	5.00
tblTripsAndVMT	WorkerTripNumber	23.00	10.00
tblTripsAndVMT	WorkerTripNumber	1,421.00	0.00
tblTripsAndVMT	WorkerTripNumber	23.00	18.00
tblTripsAndVMT	WorkerTripNumber	284.00	0.00
tblVehicleTrips	ST_TR	1.59	5.00
tblVehicleTrips	ST_TR	7.16	8.00
tblVehicleTrips	ST_TR	0.00	48.10
tblVehicleTrips	ST_TR	8.19	8.00
tblVehicleTrips	ST_TR	10.08	10.00
tblVehicleTrips	ST_TR	42.04	120.00

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	157.4210	1.8410	160.0308	8.4500e-003		3.4859	3.4859		3.4585	3.4585	0.0000	41,328.0869	41,328.0869	1.0628	0.7524	41,583.6495
Energy	2.1003	18.2428	9.7984	0.1146		1.4511	1.4511		1.4511	1.4511		22,912.5057	22,912.5057	0.4392	0.4201	23,051.9474
Mobile	68.6497	117.0884	637.9218	2.0553	145.0789	2.3153	147.3941	38.7248	2.1380	40.8627		148,961.3940	148,961.3940	5.1166		149,068.8419
Total	228.1710	137.1721	807.7509	2.1783	145.0789	7.2523	152.3311	38.7248	7.0476	45.7724	0.0000	213,201.9866	213,201.9866	6.6185	1.1725	213,704.4389

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	128.1070	1.8296	158.8794	8.3600e-003		3.4791	3.4791		3.4517	3.4517	0.0000	41,325.4910	41,325.4910	1.0588	0.7524	41,580.9708
Energy	1.8493	16.0617	8.6206	0.1009		1.2777	1.2777		1.2777	1.2777		20,174.2478	20,174.2478	0.3867	0.3699	20,297.0249
Mobile	66.4174	106.9085	593.4216	1.8386	129.2653	2.0918	131.3571	34.5038	1.9317	36.4355		133,238.7968	133,238.7968	4.6141		133,335.6919
Total	196.3737	124.7998	760.9216	1.9478	129.2653	6.8486	136.1138	34.5038	6.6611	41.1649	0.0000	194,738.5356	194,738.5356	6.0596	1.1223	195,213.6876

	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	13.94	9.02	5.80	10.58	10.90	5.57	10.65	10.90	5.48	10.07	0.00	8.66	8.66	8.45	4.28	8.65

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	1/2/2011	12/31/2010	5	0	
2	Site Preparation	Site Preparation	1/2/2011	12/31/2010	5	0	
3	Grading	Grading	1/2/2011	12/31/2010	5	0	
4	Building Construction	Building Construction	1/2/2011	12/31/2010	5	0	
5	Paving	Paving	1/2/2011	12/31/2010	5	0	
6	Architectural Coating	Architectural Coating	1/2/2011	12/31/2010	5	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 6,971,670; Residential Outdoor: 2,323,890; Non-Residential Indoor: 2,526,441; Non-Residential Outdoor: 842,147
(Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Concrete/Industrial Saws	1	8.00	81	0.73
Building Construction	Cranes	1	4.00	226	0.29
Building Construction	Forklifts	2	6.00	89	0.20
Site Preparation	Graders	1	8.00	174	0.41
Paving	Pavers	1	7.00	125	0.42
Paving	Rollers	1	7.00	80	0.38
Demolition	Rubber Tired Dozers	1	1.00	255	0.40
Grading	Rubber Tired Dozers	1	1.00	255	0.40
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Demolition	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Demolition	Excavators	3	8.00	162	0.38
Grading	Excavators	2	8.00	162	0.38
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Graders	1	8.00	174	0.41
Paving	Paving Equipment	2	8.00	130	0.36
Site Preparation	Rubber Tired Dozers	3	8.00	255	0.40
Grading	Scrapers	2	8.00	361	0.48
Building Construction	Welders	1	8.00	46	0.45

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	7	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	5	5.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	9	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	0.00	483.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	9	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Density

Increase Diversity

Improve Walkability Design

Increase Transit Accessibility

Improve Pedestrian Network

Provide Traffic Calming Measures

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Unmitigated	68.6497	117.0884	637.9218	2.0553	145.0789	2.3153	147.3941	38.7248	2.1380	40.8627		148,961.3940	148,961.3940	5.1166		149,068.8419
Mitigated	66.4174	106.9085	593.4216	1.8386	129.2653	2.0918	131.3571	34.5038	1.9317	36.4355		133,238.7968	133,238.7968	4.6141		133,335.6919

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	148.50	148.50	148.50	317,026	282,470
Condo/Townhouse	456.00	456.00	456.00	1,302,018	1,160,098
Elementary School	900.00	0.00	0.00	1,417,461	1,262,958
Government Office Building	481.00	481.00	481.00	824,857	734,948
Hotel	1,600.00	1,600.00	1600.00	3,039,889	2,708,541
Single Family Housing	18,810.00	18,810.00	18810.00	53,708,256	47,854,056
Strip Mall	4,800.00	4,800.00	4800.00	7,392,159	6,586,413
Total	27,195.50	26,295.50	26,295.50	68,001,666	60,589,485

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
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
Condo/Townhouse	10.80	7.30	7.50	41.60	18.80	39.60	86	11	3
Elementary School	9.50	7.30	7.30	65.00	30.00	5.00	63	25	12
Government Office Building	9.50	7.30	7.30	33.00	62.00	5.00	50	34	16
Hotel	9.50	7.30	7.30	19.40	61.60	19.00	58	38	4
Single Family Housing	10.80	7.30	7.50	41.60	18.80	39.60	86	11	3
Strip Mall	9.50	7.30	7.30	16.60	64.40	19.00	45	40	15

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.511923	0.073395	0.191568	0.130918	0.036235	0.005199	0.012665	0.023708	0.001889	0.002027	0.006511	0.000534	0.003431

5.0 Energy Detail

5.1 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Install Energy Efficient Appliances

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	1.8493	16.0617	8.6206	0.1009		1.2777	1.2777		1.2777	1.2777		20,174.2478	20,174.2478	0.3867	0.3699	20,297.0249
NaturalGas Unmitigated	2.1003	18.2428	9.7984	0.1146		1.4511	1.4511		1.4511	1.4511		22,912.5057	22,912.5057	0.4392	0.4201	23,051.9474

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
City Park	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
Condo/Townhouse	2153.67	0.0232	0.1985	0.0845	1.2700e-003		0.0161	0.0161		0.0161	0.0161		253.3730	253.3730	4.8600e-003	4.6500e-003	254.9150
Elementary School	852.067	9.1900e-003	0.0835	0.0702	5.0000e-004		6.3500e-003	6.3500e-003		6.3500e-003	6.3500e-003		100.2432	100.2432	1.9200e-003	1.8400e-003	100.8533
Government Office Building	576.164	6.2100e-003	0.0565	0.0475	3.4000e-004		4.2900e-003	4.2900e-003		4.2900e-003	4.2900e-003		67.7841	67.7841	1.3000e-003	1.2400e-003	68.1966
Hotel	48413.3	0.5221	4.7464	3.9870	0.0285		0.3607	0.3607		0.3607	0.3607		5,695.6777	5,695.6777	0.1092	0.1044	5,730.3406
Single Family Housing	142510	1.5369	13.1333	5.5886	0.0838		1.0618	1.0618		1.0618	1.0618		16,765.9032	16,765.9032	0.3214	0.3074	16,867.9377
Strip Mall	250.959	2.7100e-003	0.0246	0.0207	1.5000e-004		1.8700e-003	1.8700e-003		1.8700e-003	1.8700e-003		29.5246	29.5246	5.7000e-004	5.4000e-004	29.7043
Total		2.1003	18.2428	9.7984	0.1146		1.4511	1.4511		1.4511	1.4511		22,912.5058	22,912.5058	0.4392	0.4201	23,051.9474

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
City Park	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
Condo/Townhouse	1.90093	0.0205	0.1752	0.0746	1.1200e-003		0.0142	0.0142		0.0142	0.0142		223.6389	223.6389	4.2900e-003	4.1000e-003	225.0000
Elementary School	0.734152	7.9200e-003	0.0720	0.0605	4.3000e-004		5.4700e-003	5.4700e-003		5.4700e-003	5.4700e-003		86.3708	86.3708	1.6600e-003	1.5800e-003	86.8965
Government Office Building	0.507	5.4700e-003	0.0497	0.0418	3.0000e-004		3.7800e-003	3.7800e-003		3.7800e-003	3.7800e-003		59.6471	59.6471	1.1400e-003	1.0900e-003	60.0101
Hotel	42.476	0.4581	4.1643	3.4980	0.0250		0.3165	0.3165		0.3165	0.3165		4,997.1733	4,997.1733	0.0958	0.0916	5,027.5852
Single Family Housing	125.632	1.3549	11.5778	4.9267	0.0739		0.9361	0.9361		0.9361	0.9361		14,780.2138	14,780.2138	0.2833	0.2710	14,870.1637
Strip Mall	0.231233	2.4900e-003	0.0227	0.0190	1.4000e-004		1.7200e-003	1.7200e-003		1.7200e-003	1.7200e-003		27.2039	27.2039	5.2000e-004	5.0000e-004	27.3694
Total		1.8493	16.0617	8.6206	0.1009		1.2777	1.2777		1.2777	1.2777		20,174.2478	20,174.2478	0.3867	0.3699	20,297.0249

6.0 Area Detail

6.1 Mitigation Measures Area

Use Electric Lawnmower

Use Electric Leafblower

Use Electric Chainsaw

Use Low VOC Paint - Residential Interior

Use Low VOC Paint - Residential Exterior

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

Use Low VOC Cleaning Supplies

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Unmitigated	157.4210	1.8410	160.0308	8.4500e-003		3.4859	3.4859		3.4585	3.4585	0.0000	41,328.0869	41,328.0869	1.0628	0.7524	41,583.6495
Mitigated	128.1070	1.8296	158.8794	8.3600e-003		3.4791	3.4791		3.4517	3.4517	0.0000	41,325.4910	41,325.4910	1.0588	0.7524	41,580.9708

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	39.1349					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	109.7198					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	3.7620	1.7000e-004	0.2052	0.0000		2.5992	2.5992		2.5718	2.5718	0.0000	41,040.0000	41,040.0000	0.7866	0.7524	41,289.7626
Landscaping	4.8043	1.8408	159.8256	8.4500e-003		0.8867	0.8867		0.8867	0.8867		288.0869	288.0869	0.2762		293.8869
Total	157.4210	1.8410	160.0308	8.4500e-003		3.4859	3.4859		3.4585	3.4585	0.0000	41,328.0869	41,328.0869	1.0628	0.7524	41,583.6495

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	18.0919					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	101.5165					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	3.7620	1.7000e-004	0.2052	0.0000		2.5992	2.5992		2.5718	2.5718	0.0000	41,040.0000	41,040.0000	0.7866	0.7524	41,289.7626
Landscaping	4.7366	1.8294	158.6742	8.3600e-003		0.8799	0.8799		0.8799	0.8799		285.4910	285.4910	0.2722		291.2082
Total	128.1070	1.8296	158.8794	8.3600e-003		3.4791	3.4791		3.4517	3.4517	0.0000	41,325.4910	41,325.4910	1.0588	0.7524	41,580.9708

7.0 Water Detail

7.1 Mitigation Measures Water

- Install Low Flow Bathroom Faucet
- Install Low Flow Kitchen Faucet
- Install Low Flow Toilet
- Install Low Flow Shower
- Use Water Efficient Irrigation System

8.0 Waste Detail

8.1 Mitigation Measures Waste

- Institute Recycling and Composting Services

9.0 Operational Offroad

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

Otay Ranch Resort Village Year 2 Construction San Diego Air Basin, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
City Park	1.90	Acre	1.90	82,764.00	0
Single Family Housing	210.00	Dwelling Unit	55.20	378,000.00	601

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2017

Utility Company

CO2 Intensity (lb/MW/hr)	0	CH4 Intensity (lb/MW/hr)	0	N2O Intensity (lb/MW/hr)	0
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1.3 User Entered Comments & Non-Default Data

Construction Phase - Based on construction schedule

Table Name	Column Name	Default Value	New Value
tb/ArchitecturalCoating	EF_Nonresidential_Exterior	250.00	150.00
tb/ArchitecturalCoating	EF_Nonresidential_Interior	250.00	100.00
tb/ArchitecturalCoating	EF_Residential_Exterior	250.00	150.00
tb/ArchitecturalCoating	EF_Residential_Interior	250.00	100.00
tb/AreaCoating	Area_Nonresidential_Interior	124146	0
tb/AreaCoating	Area_Residential_Exterior	255150	0
tb/AreaCoating	Area_Residential_Interior	765450	0
tb/AreaMitigation	UseLowVOCPaintNonresidentialExterior	250	0

tblAreaMitigation	UseLowVOCPaintNonresidentialInterior	250	0
tblAreaMitigation	UseLowVOCPaintResidentialExteriorVal	250	0
tblAreaMitigation	UseLowVOCPaintResidentialInteriorVal	250	0
tblConstructionPhase	NumDays	75.00	131.00
tblConstructionPhase	NumDays	1,110.00	219.00
tblConstructionPhase	NumDays	110.00	130.00
tblConstructionPhase	NumDays	75.00	131.00
tblConstructionPhase	PhaseEndDate	7/3/2017	12/30/2016
tblConstructionPhase	PhaseEndDate	5/4/2017	12/31/2016
tblConstructionPhase	PhaseEndDate	7/3/2017	12/31/2016
tblConstructionPhase	PhaseEndDate	12/1/2016	7/1/2016
tblConstructionPhase	PhaseStartDate	1/1/2017	7/1/2016
tblConstructionPhase	PhaseStartDate	7/2/2016	3/1/2016
tblConstructionPhase	PhaseStartDate	1/1/2017	7/1/2016
tblConstructionPhase	PhaseStartDate	7/1/2016	2/1/2016
tblGrading	AcresOfGrading	910.00	78.90
tblGrading	MaterialExported	0.00	834,626.00
tblGrading	MaterialImported	0.00	834,626.00
tblLandUse	LotAcreage	68.18	55.20
tblOffRoadEquipment	HorsePower	400.00	189.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblProjectCharacteristics	OperationalYear	2014	2017
tblTripsAndVMT	HaulingTripLength	20.00	0.25
tblTripsAndVMT	VendorTripNumber	36.00	72.00
tblTripsAndVMT	WorkerTripNumber	55.00	56.00
tblTripsAndVMT	WorkerTripNumber	110.00	220.00
tblTripsAndVMT	WorkerTripNumber	55.00	56.00
tblTripsAndVMT	WorkerTripNumber	22.00	44.00

2.0 Emissions Summary

2.1 Overall Construction Unmitigated Construction

Year	tons/yr											MIT/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	
2016	6.6043	28.2980	33.4425	0.0308	1.1790	1.4269	2.6059	0.5304	1.3238	1.8542	0.0000	2,765.777	2,765.7773	0.6234	0.0000	0.0000	2,778.8695
Total	6.6043	28.2980	33.4425	0.0308	1.1790	1.4269	2.6059	0.5304	1.3238	1.8542	0.0000	2,765.777	2,765.7773	0.6234	0.0000	0.0000	2,778.8695

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
tons/yr																
MIT/yr																
2016	6.6043	28.2980	33.4425	0.0308	0.6760	1.4269	2.1028	0.2651	1.3238	1.5889	0.0000	2,765.774	2,765.7748	0.6234	0.0000	2,778.8670
Total	6.6043	28.2980	33.4425	0.0308	0.6760	1.4269	2.1028	0.2651	1.3238	1.5889	0.0000	2,765.774	2,765.7748	0.6234	0.0000	2,778.8670

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	42.67	0.00	19.30	50.02	0.00	14.31	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading	Grading	1/1/2016	6/30/2016	5	130	
2	Utilities	Trenching	2/1/2016	7/1/2016	5	110	
3	Building Construction	Building Construction	3/1/2016	12/31/2016	5	219	
4	Paving	Paving	7/1/2016	12/31/2016	5	131	
5	Architectural Coating	Architectural Coating	7/1/2016	12/30/2016	5	131	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 78.9

Acres of Paving: 0

Residential Indoor: 765,450; Residential Outdoor: 255,150; Non-Residential Indoor: 124,146; Non-Residential Outdoor: 41,382

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor

Grading	Excavators	4	8.00	162	0.38
Grading	Graders	2	8.00	174	0.41
Grading	Off-Highway Trucks	2	8.00	189	0.38
Grading	Rubber Tired Dozers	2	8.00	255	0.40
Grading	Scrapers	6	8.00	361	0.48
Grading	Tractors/Loaders/Backhoes	6	8.00	97	0.37
Utilities	Excavators	4	8.00	162	0.38
Utilities	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Utilities	Trenchers	2	8.00	80	0.50
Building Construction	Cranes	2	7.00	226	0.29
Building Construction	Forklifts	6	8.00	89	0.20
Building Construction	Generator Sets	2	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	6	7.00	97	0.37
Building Construction	Welders	2	8.00	46	0.45
Paving	Cement and Mortar Mixers	8	8.00	9	0.56
Paving	Pavers	4	8.00	125	0.42
Paving	Paving Equipment	4	8.00	130	0.36
Paving	Rollers	4	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	2	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
Grading	22	56.00	0.00	165.047.00	10.80	10.80	0.25	LD_Mix	HDT_Mix	HHDT
Utilities	8	20.00	0.00	0.00	10.80	10.80	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	18	220.00	72.00	0.00	10.80	10.80	20.00	LD_Mix	HDT_Mix	HHDT
Paving	22	56.00	0.00	0.00	10.80	10.80	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	2	44.00	0.00	0.00	10.80	10.80	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area
Reduce Vehicle Speed on Unpaved Roads

3.2 Grading - 2016

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										MT/yr					
Fugitive Dust					0.8247	0.0000	0.8247	0.4349	0.0000	0.4349	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.1397	13.2312	8.4346	0.0112	0.6249	0.6249	1.4497	0.5749	0.5749	1.0998	0.0000	1,052.2793	1,052.2793	0.3174	0.0000	1,058.9448
Total	1.1397	13.2312	8.4346	0.0112	0.8247	0.6249	1.4497	0.4349	0.5749	1.0098	0.0000	1,052.2793	1,052.2793	0.3174	0.0000	1,058.9448

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										MT/yr					
Hauling	0.8336	2.1618	14.3530	2.4100e-003	0.0193	8.4700e-003	0.0278	5.4500e-003	7.7500e-003	0.0132	0.0000	199.5299	199.5299	4.4600e-003	0.0000	199.6235
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	0.0125	0.0165	0.1572	3.6000e-004	0.0292	2.2000e-004	0.0294	7.7600e-003	2.1000e-004	7.9600e-003	0.0000	27.2021	27.2021	1.4400e-003	0.0000	27.2323
Total	0.8461	2.1783	14.5102	2.7700e-003	0.0485	8.6900e-003	0.0572	0.0132	7.9600e-003	0.0212	0.0000	226.7320	226.7320	5.9000e-003	0.0000	226.8558

Mitigated Construction On-Site

Off-Road	0.1840	1.8685	1.3291	1.8900e-003	0.1175	0.1175	0.1081	0.1081	0.0000	177.9500	177.9500	0.0537	0.0000	179.0772
Total	0.1840	1.8685	1.3291	1.8900e-003	0.1175	0.1175	0.1081	0.1081	0.0000	177.9500	177.9500	0.0537	0.0000	179.0772

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	0.0000	0.0000	0.0000	0.0000	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	3.7700e-003	4.9800e-003	0.0475	1.1000e-004	8.8200e-003	7.0000e-005	8.8900e-003	2.3400e-003	6.0000e-005	2.4100e-003	0.0000	8.2204	8.2204	4.3000e-004	0.0000	8.2295
Total	3.7700e-003	4.9800e-003	0.0475	1.1000e-004	8.8200e-003	7.0000e-005	8.8900e-003	2.3400e-003	6.0000e-005	2.4100e-003	0.0000	8.2204	8.2204	4.3000e-004	0.0000	8.2295

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
tons/yr																
Off-Road	0.1840	1.8685	1.3291	1.8900e-003	0.1175	0.1175	0.1175	0.1081	0.1081	0.1081	0.0000	177.9498	177.9498	0.0537	0.0000	179.0770
Total	0.1840	1.8685	1.3291	1.8900e-003	0.1175	0.1175	0.1175	0.1081	0.1081	0.1081	0.0000	177.9498	177.9498	0.0537	0.0000	179.0770

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	0.0897	0.7703	1.0791	1.8700e-003	0.0513	0.0114	0.0626	0.0147	0.0104	0.0251	0.0000	170.0948	170.0948	1.3300e-003	0.0000	170.1228
Worker	0.0826	0.1092	1.0405	2.3800e-003	0.1932	1.4800e-003	0.1947	0.0513	1.3600e-003	0.0527	0.0000	180.0271	180.0271	9.5100e-003	0.0000	180.2268
Total	0.1723	0.8794	2.1196	4.2500e-003	0.2445	0.0128	0.2573	0.0660	0.0118	0.0778	0.0000	350.1219	350.1219	0.0108	0.0000	350.3496

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	0.7460	6.2429	4.0530	5.8700e-003	0.4309	0.4309	0.4309	0.4048	0.4048	0.4048	0.0000	530.3157	530.3157	0.1315	0.0000	533.0778
Total	0.7460	6.2429	4.0530	5.8700e-003	0.4309	0.4309	0.4309	0.4048	0.4048	0.4048	0.0000	530.3157	530.3157	0.1315	0.0000	533.0778

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	0.0897	0.7703	1.0791	1.8700e-003	0.0513	0.0114	0.0626	0.0147	0.0104	0.0251	0.0000	170.0948	170.0948	1.3300e-003	0.0000	170.1228
Worker	0.0826	0.1092	1.0405	2.3800e-003	0.1932	1.4800e-003	0.1947	0.0513	1.3600e-003	0.0527	0.0000	180.0271	180.0271	9.5100e-003	0.0000	180.2268

Total	0.1723	0.8794	2.1196	4.2500e-003	0.2445	0.0128	0.2573	0.0660	0.0118	0.0778	0.0000	350.1219	350.1219	0.0108	0.0000	350.3496
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3.5 Paving - 2016

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															
Off-Road	0.3492	3.5524	2.4187	3.7000e-003	0.2058	0.2058	0.2058	0.1900	0.1900	0.1900	0.0000	337.7609	337.7609	0.0971	0.0000	339.8007
Paving	0.0000				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	0.3492	3.5524	2.4187	3.7000e-003	0.2058	0.2058	0.2058	0.1900	0.1900	0.1900	0.0000	337.7609	337.7609	0.0971	0.0000	339.8007
	MT/yr															

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	0.0000	0.0000	0.0000	0.0000	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	0.0126	0.0166	0.1584	3.6000e-004	0.0294	2.3000e-004	0.0296	7.8200e-003	2.1000e-004	8.0200e-003	0.0000	27.4114	27.4114	1.4500e-003	0.0000	27.4418
Total	0.0126	0.0166	0.1584	3.6000e-004	0.0294	2.3000e-004	0.0296	7.8200e-003	2.1000e-004	8.0200e-003	0.0000	27.4114	27.4114	1.4500e-003	0.0000	27.4418
	MT/yr															

Mitigated Construction On-Site

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
	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.8900e-003	0.0131	0.1245	2.8000e-004	0.0231	1.8000e-004	0.0233	6.1400e-003	1.6000e-004	6.3000e-003	0.0000	21.5375	21.5375	1.1400e-003	0.0000	21.5614
Total	9.8900e-003	0.0131	0.1245	2.8000e-004	0.0231	1.8000e-004	0.0233	6.1400e-003	1.6000e-004	6.3000e-003	0.0000	21.5375	21.5375	1.1400e-003	0.0000	21.5614

Otay Ranch Resort Village Year 2 Construction San Diego Air Basin, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
City Park	1.90	Acre	1.90	82,764.00	0
Single Family Housing	210.00	Dwelling Unit	55.20	378,000.00	601

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2017

Utility Company

CO2 Intensity (lb/MW/hr)	0	CH4 Intensity (lb/MW/hr)	0	N2O Intensity (lb/MW/hr)	0
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1.3 User Entered Comments & Non-Default Data

Construction Phase - Based on construction schedule

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	150.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	100.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	150.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	100.00
tblAreaCoating	Area_Nonresidential_Interior	124146	0
tblAreaCoating	Area_Residential_Exterior	255150	0
tblAreaCoating	Area_Residential_Interior	765450	0
tblAreaMitigation	UseLowVOCpaintNonresidentialExterior	250	0

tblAreaMitigation	UseLowVOCPaintNonresidentialInterior	250		0
tblAreaMitigation	UseLowVOCPaintResidentialExteriorVal	250		0
tblAreaMitigation	UseLowVOCPaintResidentialInteriorVal	250		0
tblConstructionPhase	NumDays	75.00		131.00
tblConstructionPhase	NumDays	1,110.00		219.00
tblConstructionPhase	NumDays	110.00		130.00
tblConstructionPhase	NumDays	75.00		131.00
tblConstructionPhase	PhaseEndDate	7/3/2017		12/30/2016
tblConstructionPhase	PhaseEndDate	5/4/2017		12/31/2016
tblConstructionPhase	PhaseEndDate	7/3/2017		12/31/2016
tblConstructionPhase	PhaseEndDate	12/1/2016		7/1/2016
tblConstructionPhase	PhaseStartDate	1/1/2017		7/1/2016
tblConstructionPhase	PhaseStartDate	7/2/2016		3/1/2016
tblConstructionPhase	PhaseStartDate	1/1/2017		7/1/2016
tblConstructionPhase	PhaseStartDate	7/1/2016		2/1/2016
tblGrading	AcresOfGrading	910.00		78.90
tblGrading	MaterialExported	0.00		834,626.00
tblGrading	MaterialImported	0.00		834,626.00
tblLandUse	LotAcreage	68.18		55.20
tblOffRoadEquipment	HorsePower	400.00		189.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00		2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00		2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00		4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00		6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00		2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00		2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00		4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00		4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00		4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00		2.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblProjectCharacteristics	OperationalYear	2014	2017
tblTripsAndVMT	HaulingTripLength	20.00	0.25
tblTripsAndVMT	VendorTripNumber	36.00	72.00
tblTripsAndVMT	WorkerTripNumber	55.00	56.00
tblTripsAndVMT	WorkerTripNumber	110.00	220.00
tblTripsAndVMT	WorkerTripNumber	55.00	56.00
tblTripsAndVMT	WorkerTripNumber	22.00	44.00

2.0 Emissions Summary

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
	lb/day															
2016	65.3792	335.4171	382.7138	0.3448	15.9000	15.9324	31.8324	7.5565	14.7339	22.2904	0.0000	34,516.97	34,516.971	7.9965	0.0000	34,684.898
Total	65.3792	335.4171	382.7138	0.3448	15.9000	15.9324	31.8324	7.5565	14.7339	22.2904	0.0000	34,516.97	34,516.971	7.9965	0.0000	34,684.898

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
2016	65.3792	335.4171	382.7138	0.3448	8.1605	15.9324	24.0929	3.4756	14.7339	18.2096	0.0000	34,516.97	34,516.971	7.9965	0.0000	34,684.898
Total	65.3792	335.4171	382.7138	0.3448	8.1605	15.9324	24.0929	3.4756	14.7339	18.2096	0.0000	34,516.97	34,516.971	7.9965	0.0000	34,684.898

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	48.68	0.00	24.31	54.00	0.00	18.31	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading	Grading	1/1/2016	6/30/2016	5	130	
2	Utilities	Trenching	2/1/2016	7/1/2016	5	110	
3	Building Construction	Building Construction	3/1/2016	12/31/2016	5	219	
4	Paving	Paving	7/1/2016	12/31/2016	5	131	
5	Architectural Coating	Architectural Coating	7/1/2016	12/30/2016	5	131	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 78.9

Acres of Paving: 0

Residential Indoor: 765,450; Residential Outdoor: 255,150; Non-Residential Indoor: 124,146; Non-Residential Outdoor: 41,382

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor

Grading	Excavators	4	8.00	162	0.38
Grading	Graders	2	8.00	174	0.41
Grading	Off-Highway Trucks	2	8.00	189	0.38
Grading	Rubber Tired Dozers	2	8.00	255	0.40
Grading	Scrapers	6	8.00	361	0.48
Grading	Tractors/Loaders/Backhoes	6	8.00	97	0.37
Utilities	Excavators	4	8.00	162	0.38
Utilities	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Utilities	Trenchers	2	8.00	80	0.50
Building Construction	Cranes	2	7.00	226	0.29
Building Construction	Forklifts	6	8.00	89	0.20
Building Construction	Generator Sets	2	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	6	7.00	97	0.37
Building Construction	Welders	2	8.00	46	0.45
Paving	Cement and Mortar Mixers	8	8.00	9	0.56
Paving	Pavers	4	8.00	125	0.42
Paving	Paving Equipment	4	8.00	130	0.36
Paving	Rollers	4	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	2	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
Grading	22	56.00	0.00	165,047.00	10.80	7.30	0.25	LD_Mix	HDT_Mix	HHDT
Utilities	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	18	220.00	72.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	22	56.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	2	44.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area
Reduce Vehicle Speed on Unpaved Roads

3.2 Grading - 2016

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					12.6878	0.0000	12.6878	6.6900	0.0000	6.6900			0.0000			0.0000
Off-Road	17.5343	203.5562	129.7632	0.1717	9.6144	8.8453	9.6144	8.8453	8.8453	8.8453	17,845.2204	17,845.2204	5.3828			17,958.2582
Total	17.5343	203.5562	129.7632	0.1717	12.6878	9.6144	22.3023	6.6900	8.8453	15.5352	17,845.2204	17,845.2204	5.3828			17,958.2582

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	11.1101	32.8383	170.5193	0.0373	0.3027	0.1246	0.4274	0.0852	0.1139	0.1992	3,478.0083	3,478.0083	0.0719			3,479.5173
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	0.1958	0.2297	2.5053	5.8300e-003	0.4600	3.4500e-003	0.4635	0.1220	3.1700e-003	0.1252	486.3779	486.3779	0.0244			486.8897
Total	11.3059	33.0680	173.0247	0.0431	0.7628	0.1281	0.8909	0.2073	0.1171	0.3243	3,964.3862	3,964.3862	0.0962			3,966.4070

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					4.9483	0.0000	4.9483	2.6091	0.0000	2.6091			0.0000			0.0000
Off-Road	17.5343	203.5562	129.7632	0.1717	9.6144	9.6144	9.6144	8.8453	8.8453	8.8453	0.0000	17,845.2204	17,845.2204	5.3828		17,958.2582
Total	17.5343	203.5562	129.7632	0.1717	4.9483	9.6144	14.5627	2.6091	8.8453	11.4544	0.0000	17,845.2204	17,845.2204	5.3828		17,958.2582

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	11.1101	32.8383	170.5193	0.0373	0.3027	0.1246	0.4274	0.0852	0.1139	0.1992			3,478.0083	0.0719		3,479.5173
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	0.1958	0.2297	2.5053	5.8300e-003	0.4600	3.4500e-003	0.4635	0.1220	3.1700e-003	0.1252			486.3779	0.0244		486.8897
Total	11.3059	33.0680	173.0247	0.0431	0.7628	0.1281	0.8909	0.2073	0.1171	0.3243			3,964.3862	0.0962		3,966.4070

3.3 Utilities - 2016 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	3.3457	33.9721	24.1662	0.0343	2.1371	2.1371	1.9662	1.9662	1.0758	1.0758	13,589.0698
Total	3.3457	33.9721	24.1662	0.0343	2.1371	2.1371	1.9662	1.9662	1.0758	1.0758	3,589.0698

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	0.0699	0.0820	0.8948	2.0800e-003	0.1643	1.2300e-003	0.1655	0.0436	1.1300e-003	0.0447	173.7064	173.7064	173.7064	8.7000e-003	173.8892	173.8892
Total	0.0699	0.0820	0.8948	2.0800e-003	0.1643	1.2300e-003	0.1655	0.0436	1.1300e-003	0.0447	173.7064	173.7064	173.7064	8.7000e-003	173.8892	173.8892

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	3.3457	33.9721	24.1662	0.0343	2.1371	2.1371	1.9662	1.9662	1.0758	1.0758	0.0000	3,566.4785	3,566.4785	1.0758	1.0758	13,589.0698
Total	3.3457	33.9721	24.1662	0.0343	2.1371	2.1371	1.9662	1.9662	1.0758	1.0758	0.0000	3,566.4785	3,566.4785	1.0758	1.0758	3,589.0698

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
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	0.0699	0.0820	0.8948	2.0800e-003	0.1643	1.2300e-003	0.1655	0.0436	1.1300e-003	0.0447	173.7064	173.7064	8.7000e-003	173.8892		173.8892
Total	0.0699	0.0820	0.8948	2.0800e-003	0.1643	1.2300e-003	0.1655	0.0436	1.1300e-003	0.0447	173.7064	173.7064	8.7000e-003	173.8892		173.8892

3.4 Building Construction - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Off-Road	6.8125	57.0127	37.0133	0.0536	3.9348	3.9348	3.9348	3.6969	3.6969	3.6969	5,338.5728	5,338.5728	1.3241	1.3241		15,366.3780
Total	6.8125	57.0127	37.0133	0.0536	3.9348	3.9348	3.9348	3.6969	3.6969	3.6969	5,338.5728	5,338.5728	1.3241	1.3241		15,366.3780

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															

Category	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
Vendor	0.7511	6.8236	8.0093	0.0171	0.4779	0.1032	0.1363	0.0949	0.2312	1,717.8369	1,717.8369	0.0133
Worker	0.7690	0.9025	9.8424	0.0229	1.8073	0.0136	0.4794	0.0125	0.4918	1,910.7703	1,910.7703	0.0957
Total	1.5201	7.7261	17.8517	0.0400	2.2851	0.1168	0.6157	0.1074	0.7231	3,628.6072	3,628.6072	0.1090
										2		3,630.8964

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
Off-Road	6.8125	57.0127	37.0133	0.0536		3.9348	3.9348		3.6969	3.6969	0.0000	5,338.5728	15,338.5728	1.3241		15,366.3780
Total	6.8125	57.0127	37.0133	0.0536		3.9348	3.9348		3.6969	3.6969	0.0000	5,338.5728	15,338.5728	1.3241		15,366.3780

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
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
Vendor	0.7511	6.8236	8.0093	0.0171	0.4779	0.1032	0.5811	0.1363	0.0949	0.2312	1,717.8369	1,717.8369	15,338.5728	1.3241		15,366.3780
Worker	0.7690	0.9025	9.8424	0.0229	1.8073	0.0136	1.8208	0.4794	0.0125	0.4918	1,910.7703	1,910.7703	15,338.5728	1.3241		15,366.3780
Total	1.5201	7.7261	17.8517	0.0400	2.2851	0.1168	2.4019	0.6157	0.1074	0.7231	3,628.6072	3,628.6072	15,338.5728	2.6482		15,366.3780

Total	1.5201	7.7261	17.8517	0.0400	2.2851	0.1168	2.4019	0.6157	0.1074	0.7231	3,628.607 2	3,628.6072	0.1090	3,630.8964
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3.5 Paving - 2016

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	5.3315	54.2353	36.9274	0.0565		3.1419	3.1419		2.9001	2.9001		5,684.239 3	5,684.2393	1.6346		5,718.5664
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	5.3315	54.2353	36.9274	0.0565		3.1419	3.1419		2.9001	2.9001		5,684.239 3	5,684.2393	1.6346		5,718.5664

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	0.0000	0.0000	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	0.1958	0.2297	2.5053	5.8300e-003	0.4600	3.4500e-003	0.4635	0.1220	3.1700e-003	0.1252		486.3779	486.3779	0.0244		486.8897
Total	0.1958	0.2297	2.5053	5.8300e-003	0.4600	3.4500e-003	0.4635	0.1220	3.1700e-003	0.1252		486.3779	486.3779	0.0244		486.8897

Mitigated Construction On-Site

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	0.1538	0.1805	1.9685	4.5800e-003	0.3615	2.7100e-003	0.3642	0.0959	2.4900e-003	0.0984	382.1541	382.1541	382.1541	0.0192		382.5562
Total	0.1538	0.1805	1.9685	4.5800e-003	0.3615	2.7100e-003	0.3642	0.0959	2.4900e-003	0.0984	382.1541	382.1541	382.1541	0.0192		382.5562

Otay Ranch Resort Village Year 3 Construction San Diego Air Basin, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
City Park	2.40	Acre	2.40	104,544.00	0
Single Family Housing	210.00	Dwelling Unit	58.70	378,000.00	601

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2018

Utility Company

CO2 Intensity (lb/MW/hr)	0	CH4 Intensity (lb/MW/hr)	0	N2O Intensity (lb/MW/hr)	0
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1.3 User Entered Comments & Non-Default Data

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	150.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	100.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	150.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	100.00
tblAreaCoating	Area_Nonresidential_Interior	156816	0
tblAreaCoating	Area_Residential_Exterior	255150	0
tblAreaCoating	Area_Residential_Interior	765450	0
tblAreaMitigation	UseLowVOCPaintNonresidentialExterior	250	0
tblAreaMitigation	UseLowVOCPaintNonresidentialInterior	250	0

tblAreaMitigation	UseLowVOCPaintResidentialExteriorVal	250		0
tblAreaMitigation	UseLowVOCPaintResidentialInteriorVal	250		0
tblConstructionPhase	NumDays	75.00		130.00
tblConstructionPhase	NumDays	1,110.00		218.00
tblConstructionPhase	NumDays	110.00		130.00
tblConstructionPhase	NumDays	75.00		130.00
tblConstructionPhase	PhaseEndDate	6/29/2018		12/31/2017
tblConstructionPhase	PhaseEndDate	5/2/2018		12/31/2017
tblConstructionPhase	PhaseEndDate	6/29/2018		12/31/2017
tblConstructionPhase	PhaseEndDate	11/29/2017		7/1/2017
tblConstructionPhase	PhaseStartDate	1/1/2018		7/1/2017
tblConstructionPhase	PhaseStartDate	7/2/2017		3/1/2017
tblConstructionPhase	PhaseStartDate	1/1/2018		7/1/2017
tblConstructionPhase	PhaseStartDate	7/1/2017		2/1/2017
tblGrading	AcresOfGrading	910.00		79.50
tblGrading	MaterialExported	0.00		840,973.00
tblGrading	MaterialImported	0.00		840,973.00
tblLandUse	LotAcreage	68.18		58.70
tblOffRoadEquipment	HorsePower	400.00		189.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00		2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00		2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00		4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00		6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00		2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00		2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00		4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00		4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00		4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00		2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00		6.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblProjectCharacteristics	OperationalYear	2014	2018
tblTripsAndVMT	HaulingTripLength	20.00	0.25
tblTripsAndVMT	VendorTripNumber	40.00	80.00
tblTripsAndVMT	WorkerTripNumber	55.00	56.00
tblTripsAndVMT	WorkerTripNumber	120.00	240.00
tblTripsAndVMT	WorkerTripNumber	55.00	56.00
tblTripsAndVMT	WorkerTripNumber	24.00	48.00

2.0 Emissions Summary

2.1 Overall Construction 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
2017	6.6746	26.7578	36.0414	0.0318	1.3264	1.3032	2.6295	0.5562	1.2087	1.7649	0.0000	2,798.3075	0.6193	0.0000	2,811.3127	
Total	6.6746	26.7578	36.0414	0.0318	1.3264	1.3032	2.6295	0.5562	1.2087	1.7649	0.0000	2,798.3075	0.6193	0.0000	2,811.3127	

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
2017	6.6746	26.7578	36.0414	0.0318	1.3264	1.3032	2.6295	0.5562	1.2087	1.7649	0.0000	2,798.3075	0.6193	0.0000	2,811.3127	
Total	6.6746	26.7578	36.0414	0.0318	1.3264	1.3032	2.6295	0.5562	1.2087	1.7649	0.0000	2,798.3075	0.6193	0.0000	2,811.3127	

Year	tons/yr										MT/yr					
2017	6.6746	26.7578	36.0414	0.0318	0.7510	1.3032	2.0542	0.2800	1.2087	1.4887	0.0000	2,798.3050	2,798.3050	0.6193	0.0000	2,811.3102
Total	6.6746	26.7578	36.0414	0.0318	0.7510	1.3032	2.0542	0.2800	1.2087	1.4887	0.0000	2,798.3050	2,798.3050	0.6193	0.0000	2,811.3102

ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBic-CO2	Total CO2	CH4	N2O	CO2e
0.00	0.00	0.00	0.00	43.38	0.00	21.88	49.66	0.00	15.65	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days/Week	Num Days	Phase Description
1	Grading	Grading	11/1/2017	6/30/2017	5	130	
2	Utilities	Trenching	12/1/2017	7/1/2017	5	108	
3	Building Construction	Building Construction	3/1/2017	12/31/2017	5	218	
4	Paving	Paving	7/1/2017	12/31/2017	5	130	
5	Architectural Coating	Architectural Coating	7/1/2017	12/31/2017	5	130	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 79.5

Acres of Paving: 0

Residential Indoor: 765,450; Residential Outdoor: 255,150; Non-Residential Indoor: 156,816; Non-Residential Outdoor: 52,272

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Excavators	4	8.00	162	0.38

Grading	Graders	2	8.00	174	0.41
Grading	Off-Highway Trucks	2	8.00	189	0.38
Grading	Rubber Tired Dozers	2	8.00	255	0.40
Grading	Scrapers	6	8.00	361	0.48
Grading	Tractors/Loaders/Backhoes	6	8.00	97	0.37
Utilities	Excavators	4	8.00	162	0.38
Utilities	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Utilities	Trenchers	2	8.00	80	0.50
Building Construction	Cranes	2	7.00	226	0.29
Building Construction	Forklifts	6	8.00	89	0.20
Building Construction	Generator Sets	2	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	6	7.00	97	0.37
Building Construction	Welders	2	8.00	46	0.45
Paving	Cement and Mortar Mixers	8	8.00	9	0.56
Paving	Pavers	4	8.00	125	0.42
Paving	Paving Equipment	4	8.00	130	0.36
Paving	Rollers	4	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	2	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
Grading	22	56.00	0.00	210,243.00	10.80	7.30	0.25	LD_Mix	HDT_Mix	HHDT
Utilities	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	18	240.00	80.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	22	56.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	2	48.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area
 Reduce Vehicle Speed on Unpaved Roads

3.2 Grading - 2017

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															
	MT/yr															
Fugitive Dust					0.9432	0.0000	0.9432	0.4528	0.0000	0.4528	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.0717	12.2833	8.0103	0.0112	0.5772	0.5772	0.5772	0.5310	0.5310	0.5310	0.0000	1,035.6654	1,035.6654	0.3173	0.0000	1,042.3292
Total	1.0717	12.2833	8.0103	0.0112	0.9432	0.5772	1.5204	0.4528	0.5310	0.9838	0.0000	1,035.6654	1,035.6654	0.3173	0.0000	1,042.3292

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															
	MT/yr															
Hauling	0.9794	2.5865	17.5572	3.0600e-003	0.0246	9.3200e-003	0.0339	6.9400e-003	8.5300e-003	0.0155	0.0000	249.6944	249.6944	5.7500e-003	0.0000	249.8153
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	0.0113	0.0150	0.1417	3.6000e-004	0.0292	2.2000e-004	0.0294	7.7600e-003	2.0000e-004	7.9600e-003	0.0000	26.1511	26.1511	1.3300e-003	0.0000	26.1790
Total	0.9907	2.6014	17.6989	3.4200e-003	0.0538	9.5400e-003	0.0633	0.0147	8.7300e-003	0.0234	0.0000	275.8455	275.8455	7.0800e-003	0.0000	275.9943

Mitigated Construction On-Site

Off-Road	0.1705	1.7053	1.2998	1.8500e-003	0.1073	0.1073	0.0987	0.0987	0.0000	171.9413	171.9413	0.0527	0.0000	173.0476
Total	0.1705	1.7053	1.2998	1.8500e-003	0.1073	0.1073	0.0987	0.0987	0.0000	171.9413	171.9413	0.0527	0.0000	173.0476

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	3.3600e-003	4.4500e-003	0.0421	1.1000e-004	8.6600e-003	6.0000e-005	8.7300e-003	2.3000e-003	6.0000e-005	2.3600e-003	0.0000	7.7591	7.7591	3.9000e-004	0.0000	0.0000	7.7674
Total	3.3600e-003	4.4500e-003	0.0421	1.1000e-004	8.6600e-003	6.0000e-005	8.7300e-003	2.3000e-003	6.0000e-005	2.3600e-003	0.0000	7.7591	7.7591	3.9000e-004	0.0000	0.0000	7.7674

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	0.1705	1.7052	1.2998	1.8500e-003	0.1073	0.1073	0.1073	0.0987	0.0987	0.0987	0.0000	171.9410	171.9410	0.0527	0.0000	173.0474	
Total	0.1705	1.7052	1.2998	1.8500e-003	0.1073	0.1073	0.1073	0.0987	0.0987	0.0987	0.0000	171.9410	171.9410	0.0527	0.0000	173.0474	

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	0.0908	0.7616	1.1277	2.0700e-003	0.0567	0.0109	0.0676	0.0162	0.0100	0.0263	0.0000	184.9512	184.9512	1.3900e-003	0.0000	184.9805
Worker	0.0813	0.1077	1.0184	2.5800e-003	0.2098	1.5600e-003	0.2113	0.0558	1.4400e-003	0.0572	0.0000	187.9429	187.9429	9.5500e-003	0.0000	188.1436
Total	0.1721	0.8693	2.1461	4.6500e-003	0.2665	0.0125	0.2790	0.0720	0.0115	0.0834	0.0000	372.8941	372.8941	0.0109	0.0000	373.1240

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	0.6763	5.7564	3.9522	5.8400e-003	0.3883	0.3883	0.3883	0.3647	0.3647	0.3647	0.0000	522.0638	522.0638	0.1285	0.0000	524.7621
Total	0.6763	5.7564	3.9522	5.8400e-003	0.3883	0.3883	0.3883	0.3647	0.3647	0.3647	0.0000	522.0638	522.0638	0.1285	0.0000	524.7621

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	0.0908	0.7616	1.1277	2.0700e-003	0.0567	0.0109	0.0676	0.0162	0.0100	0.0263	0.0000	184.9512	184.9512	1.3900e-003	0.0000	184.9805
Worker	0.0813	0.1077	1.0184	2.5800e-003	0.2098	1.5600e-003	0.2113	0.0558	1.4400e-003	0.0572	0.0000	187.9429	187.9429	9.5500e-003	0.0000	188.1436

Total	0.1721	0.8693	2.1461	4.6500e-003	0.2665	0.0125	0.2790	0.0720	0.0115	0.0834	0.0000	372.8941	372.8941	0.0109	0.0000	373.1240
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3.5 Paving - 2017

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	INBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr															
Off-Road	0.3197	3.2258	2.3861	3.6700e-003	0.1854	0.1854	0.1854	0.1712	0.1712	0.1712	0.0000	330.3791	330.3791	0.0964	0.0000	332.4035
Paving	0.0000				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	0.3197	3.2258	2.3861	3.6700e-003	0.1854	0.1854	0.1854	0.1712	0.1712	0.1712	0.0000	330.3791	330.3791	0.0964	0.0000	332.4035
	MT/yr															

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	INBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr															
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0113	0.0150	0.1417	3.6000e-004	0.0292	2.2000e-004	0.0294	7.7600e-003	2.0000e-004	7.9600e-003	0.0000	26.1511	26.1511	1.3300e-003	0.0000	26.1790
Total	0.0113	0.0150	0.1417	3.6000e-004	0.0292	2.2000e-004	0.0294	7.7600e-003	2.0000e-004	7.9600e-003	0.0000	26.1511	26.1511	1.3300e-003	0.0000	26.1790
	MT/yr															

Mitigated Construction On-Site

Archit. Coating	3.2060									0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0432	0.2841	0.2429	3.9000e-004	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0000	33.1923	33.1923	3.5000e-003	0.0000	0.0000	33.2659
Total	3.2492	0.2841	0.2429	3.9000e-004	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0000	33.1923	33.1923	3.5000e-003	0.0000	0.0000	33.2659

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	0.0000	0.0000	0.0000	0.0000	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	9.7000e-003	0.0129	0.1215	3.1000e-004	0.0250	1.9000e-004	0.0252	6.6500e-003	1.7000e-004	6.8200e-003	0.0000	22.4152	22.4152	1.1400e-003	0.0000	22.4391
Total	9.7000e-003	0.0129	0.1215	3.1000e-004	0.0250	1.9000e-004	0.0252	6.6500e-003	1.7000e-004	6.8200e-003	0.0000	22.4152	22.4152	1.1400e-003	0.0000	22.4391

Mitigated Construction On-Site

Archit. Coating	3.2060									0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0432	0.2841	0.2429	3.9000e-004	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0000	33.1923	33.1923	3.5000e-003	0.0000	0.0000	33.2659
Total	3.2492	0.2841	0.2429	3.9000e-004	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0000	33.1923	33.1923	3.5000e-003	0.0000	0.0000	33.2659

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
tons/yr											MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.7000e-003	0.0129	0.1215	3.1000e-004	0.0250	1.9000e-004	0.0252	6.5500e-003	1.7000e-004	6.8200e-003	0.0000	22.4152	22.4152	1.1400e-003	0.0000	22.4391
Total	9.7000e-003	0.0129	0.1215	3.1000e-004	0.0250	1.9000e-004	0.0252	6.5500e-003	1.7000e-004	6.8200e-003	0.0000	22.4152	22.4152	1.1400e-003	0.0000	22.4391

Otay Ranch Resort Village Year 3 Construction San Diego Air Basin, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
City Park	2.40	Acre	2.40	104,544.00	0
Single Family Housing	210.00	Dwelling Unit	58.70	378,000.00	601

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2018

Utility Company

CO2 Intensity (lb/MW/hr)	0	CH4 Intensity (lb/MW/hr)	0	N2O Intensity (lb/MW/hr)	0
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1.3 User Entered Comments & Non-Default Data

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	150.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	100.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	150.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	100.00
tblAreaCoating	Area_Nonresidential_Interior	156816	0
tblAreaCoating	Area_Residential_Exterior	255150	0
tblAreaCoating	Area_Residential_Interior	765450	0
tblAreaMitigation	UseLowVOCPaintNonresidentialExterior	250	0
tblAreaMitigation	UseLowVOCPaintNonresidentialInterior	250	0

tblAreaMitigation	UseLowVOCPaintResidentialExteriorVal	250			0
tblAreaMitigation	UseLowVOCPaintResidentialInteriorVal	250			0
tblConstructionPhase	NumDays	75.00			130.00
tblConstructionPhase	NumDays	1,110.00			218.00
tblConstructionPhase	NumDays	110.00			130.00
tblConstructionPhase	NumDays	75.00			130.00
tblConstructionPhase	PhaseEndDate	6/29/2018			12/31/2017
tblConstructionPhase	PhaseEndDate	5/2/2018			12/31/2017
tblConstructionPhase	PhaseEndDate	6/29/2018			12/31/2017
tblConstructionPhase	PhaseEndDate	11/29/2017			7/1/2017
tblConstructionPhase	PhaseStartDate	1/1/2018			7/1/2017
tblConstructionPhase	PhaseStartDate	7/2/2017			3/1/2017
tblConstructionPhase	PhaseStartDate	1/1/2018			7/1/2017
tblConstructionPhase	PhaseStartDate	7/1/2017			2/1/2017
tblGrading	AcresOfGrading	910.00			79.50
tblGrading	MaterialExported	0.00			840,973.00
tblGrading	MaterialImported	0.00			840,973.00
tblLandUse	LotAcreage	68.18			58.70
tblOffRoadEquipment	HorsePower	400.00			189.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00			2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00			2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00			4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00			6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00			2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00			2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00			4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00			4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00			4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00			2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00			6.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblProjectCharacteristics	OperationalYear	2014	2018
tblTripsAndVMT	Hauling TripLength	20.00	0.25
tblTripsAndVMT	Vendor TripNumber	40.00	80.00
tblTripsAndVMT	Worker TripNumber	55.00	56.00
tblTripsAndVMT	Worker TripNumber	120.00	240.00
tblTripsAndVMT	Worker TripNumber	55.00	56.00
tblTripsAndVMT	Worker TripNumber	24.00	48.00

2.0 Emissions Summary

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
2017	66.1896	320.6004	412.0554	0.3587	18.0233	14.6846	32.7079	7.9144	13.5777	21.4921	0.0000	35,220.73	35,220.735	7.9901	0.0000	35,388.528
Total	66.1896	320.6004	412.0554	0.3587	18.0233	14.6846	32.7079	7.9144	13.5777	21.4921	0.0000	35,220.73	35,220.735	7.9901	0.0000	35,388.528

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
2017	66.1896	320.6004	412.0554	0.3587	18.0233	14.6846	32.7079	7.9144	13.5777	21.4921	0.0000	35,220.73	35,220.735	7.9901	0.0000	35,388.528
Total	66.1896	320.6004	412.0554	0.3587	18.0233	14.6846	32.7079	7.9144	13.5777	21.4921	0.0000	35,220.73	35,220.735	7.9901	0.0000	35,388.528

Year	lb/day										lb/day									
2017	66.1896	320.6004	412.0554	0.3587	9.1718	14.6846	23.8564	3.6653	13.5777	17.2430	0.0000	35,220.73	35,220.735	7.9901	0.0000	35,388.528				
Total	66.1896	320.6004	412.0554	0.3587	9.1718	14.6846	23.8564	3.6653	13.5777	17.2430	0.0000	35,220.73	35,220.735	7.9901	0.0000	35,388.528				

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	49.11	0.00	27.06	53.69	0.00	19.77	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading	Grading	1/1/2017	6/30/2017	5	130	
2	Utilities	Trenching	2/1/2017	7/1/2017	5	108	
3	Building Construction	Building Construction	3/1/2017	12/31/2017	5	218	
4	Paving	Paving	7/1/2017	12/31/2017	5	130	
5	Architectural Coating	Architectural Coating	7/1/2017	12/31/2017	5	130	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 79.5

Acres of Paving: 0

Residential Indoor: 765,450; Residential Outdoor: 255,150; Non-Residential Indoor: 156,816; Non-Residential Outdoor: 52,272

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Excavators	4	8.00	162	0.38

Grading	Graders	2	8.00	174	0.41
Grading	Off-Highway Trucks	2	8.00	189	0.38
Grading	Rubber Tired Dozers	2	8.00	255	0.40
Grading	Scrapers	6	8.00	361	0.48
Grading	Tractors/Loaders/Backhoes	6	8.00	97	0.37
Utilities	Excavators	4	8.00	162	0.38
Utilities	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Utilities	Trenchers	2	8.00	80	0.50
Building Construction	Cranes	2	7.00	226	0.29
Building Construction	Forklifts	6	8.00	89	0.20
Building Construction	Generator Sets	2	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	6	7.00	97	0.37
Building Construction	Welders	2	8.00	46	0.45
Paving	Cement and Mortar Mixers	8	8.00	9	0.56
Paving	Pavers	4	8.00	125	0.42
Paving	Paving Equipment	4	8.00	130	0.36
Paving	Rollers	4	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	2	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
Grading	22	56.00	0.00	210,243.00	10.80	7.30	0.25	LD_Mix	HDT_Mix	HHDT
Utilities	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	18	240.00	80.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	22	56.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	2	48.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area
Reduce Vehicle Speed on Unpaved Roads

3.2 Grading - 2017

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					14.5108	0.0000	14.5108	6.9658	0.0000	6.9658			0.0000			0.0000
Off-Road	16.4869	188.9737	123.2349	0.1717	8.8800	8.8800	8.8800	8.1696	8.1696	8.1696		15	17,563.471	5.3814		17,676.4812
Total	16.4869	188.9737	123.2349	0.1717	14.5108	8.8800	23.3908	6.9658	8.1696	15.1354		15	17,563.471	5.3814		17,676.4812

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	13.0838	39.2787	207.3516	0.0472	0.3857	0.1372	0.5229	0.1086	0.1256	0.2342			14,352.6694	0.0927		14,354.6161
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		4	0.0000	0.0000		0.0000
Worker	0.1779	0.2088	2.2660	5.8300e-003	0.4600	3.3500e-003	0.4634	0.1220	3.0900e-003	0.1251			467.6098	0.0226		468.0833
Total	13.2617	39.4874	209.6176	0.0530	0.8457	0.1406	0.9863	0.2306	0.1287	0.3593		1	4,820.279	0.1153		4,822.6994

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					5.6592	0.0000	5.6592	2.7167	0.0000	2.7167			0.0000			0.0000
Off-Road	16.4869	188.9737	123.2349	0.1717	8.8800	8.8800	8.8800	8.1696	8.1696	8.1696	0.0000	17,563.47	17,563.47	5.3814		17,676.48
Total	16.4869	188.9737	123.2349	0.1717	5.6592	8.8800	14.5392	2.7167	8.1696	10.8863	0.0000	17,563.47	17,563.47	5.3814		17,676.48

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	13.0638	39.2787	207.3516	0.0472	0.3857	0.1372	0.5229	0.1086	0.1256	0.2342		4,352.669	4,352.669	0.0927		4,354.6161
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	0.1779	0.2088	2.2660	5.8300e-003	0.4600	3.3500e-003	0.4634	0.1220	3.0900e-003	0.1251		467.6098	467.6098	0.0226		468.0833
Total	13.2617	39.4874	209.6176	0.0530	0.8457	0.1406	0.9663	0.2306	0.1287	0.3593		4,820.279	4,820.279	0.1153		4,822.6994

3.3 Utilities - 2017
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	3.1570	31.5786	24.0710	0.0343	1.9866	1.9866	1.8276	1.8276	1.0754	1.0754	3,509.8663	3,509.8663	1.0754	1.0754	3,532.4500
Total	3.1570	31.5786	24.0710	0.0343	1.9866	1.9866	1.8276	1.8276	1.0754	1.0754	3,509.8663	3,509.8663	1.0754	1.0754	3,532.4500

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	0.0635	0.0746	0.8093	2.0800e-003	0.1643	1.1900e-003	0.1655	0.0436	1.1000e-003	0.0447	167.0035	167.0035	8.0500e-003	8.0500e-003	167.1726	167.1726
Total	0.0635	0.0746	0.8093	2.0800e-003	0.1643	1.1900e-003	0.1655	0.0436	1.1000e-003	0.0447	167.0035	167.0035	8.0500e-003	8.0500e-003	167.1726	167.1726

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	3.1570	31.5786	24.0710	0.0343	1.9866	1.9866	1.8276	1.8276	1.0754	1.0754	0.0000	3,509.8663	3,509.8663	1.0754	1.0754	3,532.4500
Total	3.1570	31.5786	24.0710	0.0343	1.9866	1.9866	1.8276	1.8276	1.0754	1.0754	0.0000	3,509.8663	3,509.8663	1.0754	1.0754	3,532.4500

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
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	0.0635	0.0746	0.8093	2.0800e-003	0.1643	1.1900e-003	0.1655	0.0436	1.1000e-003	0.0447	167.0035	167.0035	167.0035	8.0500e-003		167.1726
Total	0.0635	0.0746	0.8093	2.0800e-003	0.1643	1.1900e-003	0.1655	0.0436	1.1000e-003	0.0447	167.0035	167.0035	167.0035	8.0500e-003		167.1726

3.4 Building Construction - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Off-Road	6.2047	52.8113	36.2583	0.0536		3.5624	3.5624		3.3459	3.3459	5,279.6106	6	5,279.6106	1.2994		5,306.8980
Total	6.2047	52.8113	36.2583	0.0536		3.5624	3.5624		3.3459	3.3459	5,279.6106	6	5,279.6106	1.2994		5,306.8980

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															

Category	lb/day											lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.7650	6.7800	8.3531	0.0190	0.5310	0.0995	0.6305	0.1515	0.0915	0.2430	1,876.4631	1,876.4631	0.0139	1	1,876.4631	0.0139	1,876.7559
Worker	0.7625	0.8947	9.7114	0.0250	1.9715	0.0143	1.9859	0.5230	0.0132	0.5362	2,004.0419	2,004.0419	0.0966	9	2,004.0419	0.0966	2,006.0711
Total	1.5275	7.6748	18.0644	0.0440	2.5026	0.1139	2.6164	0.6745	0.1048	0.7792	3,880.5049	3,880.5049	0.1106	9	3,880.5049	0.1106	3,882.8269

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
Off-Road	6.2047	52.8113	36.2583	0.0536	3.5624	3.5624	3.5624	3.3459	3.3459	3.3459	0.0000	5,279.6106	5,279.6106	1.2994		15,306.8980
Total	6.2047	52.8113	36.2583	0.0536	3.5624	3.5624	3.5624	3.3459	3.3459	3.3459	0.0000	5,279.6106	5,279.6106	1.2994	6	5,306.8980

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	
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	0.7650	6.7800	8.3531	0.0190	0.5310	0.0995	0.6305	0.1515	0.0915	0.2430	1,876.4631	1,876.4631	0.0139	1	1,876.4631	0.0139	1,876.7559
Worker	0.7625	0.8947	9.7114	0.0250	1.9715	0.0143	1.9859	0.5230	0.0132	0.5362	2,004.0419	2,004.0419	0.0966	9	2,004.0419	0.0966	2,006.0711

Total	1.5275	7.6748	18.0644	0.0440	2.5026	0.1139	2.6164	0.6745	0.1048	0.7792	3,880.5049	0.1106	3,882.8269
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3.5 Paving - 2017

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	4.9184	49.6282	36.7086	0.0565	2.8520	2.8520	2.8520	2.6332	2.6332	2.6332	5,602.7780	0	5,602.7780	1.6348		5,637.1091
Paving	0.0000				0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Total	4.9184	49.6282	36.7086	0.0565	2.8520	2.8520	2.8520	2.6332	2.6332	2.6332	5,602.7780	0	5,602.7780	1.6348		5,637.1091

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	0.1779	0.2088	2.2660	5.8300e-003	0.4600	3.3500e-003	0.4634	0.1220	3.0900e-003	0.1251			467.6098	0.0226		468.0833
Total	0.1779	0.2088	2.2660	5.8300e-003	0.4600	3.3500e-003	0.4634	0.1220	3.0900e-003	0.1251			467.6098	0.0226		468.0833

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	4.9184	49.6282	36.7086	0.0565	2.8520	2.8520	2.8520	2.6332	2.6332	2.6332	0.0000	5,602.7780	5,602.7780	1.6348		5,637.1091
Paving	0.0000				0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Total	4.9184	49.6282	36.7086	0.0565	2.8520	2.8520	2.8520	2.6332	2.6332	2.6332	0.0000	5,602.7780	5,602.7780	1.6348		5,637.1091

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	0.1779	0.2088	2.2660	5.8300e-003	0.4600	3.3500e-003	0.4634	0.1220	3.0900e-003	0.1251			467.6098	0.0226		468.0833
Total	0.1779	0.2088	2.2660	5.8300e-003	0.4600	3.3500e-003	0.4634	0.1220	3.0900e-003	0.1251			467.6098	0.0226		468.0833

3.6 Architectural Coating - 2017

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															

Archit. Coating	49.3235					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	0.6646	4.3701	3.7361	5.9400e-003		0.3467	0.3467	0.3467	0.3467	0.3467	0.3467	0.0594	562.8961	562.8961	0.0594	564.1441	564.1441
Total	49.9881	4.3701	3.7361	5.9400e-003		0.3467	0.3467	0.3467	0.3467	0.3467	0.3467	0.0594	562.8961	562.8961	0.0594	564.1441	564.1441

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	0.1525	0.1790	1.9423	5.0000e-003	0.3943	2.8700e-003	0.3972	0.1046	2.6400e-003	0.1072			400.8084	0.0193		401.2142
Total	0.1525	0.1790	1.9423	5.0000e-003	0.3943	2.8700e-003	0.3972	0.1046	2.6400e-003	0.1072			400.8084	0.0193		401.2142

Mitigated Construction On-Site

Archit. Coating	49.3235					0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Off-Road	0.6646	4.3701	3.7361	5.9400e-003		0.3467	0.3467	0.3467	0.3467	0.3467	0.0000	562.8961	562.8961	0.0594	564.1441	564.1441
Total	49.9881	4.3701	3.7361	5.9400e-003		0.3467	0.3467	0.3467	0.3467	0.3467	0.0000	562.8961	562.8961	0.0594	564.1441	564.1441

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	0.1525	0.1790	1.9423	5.0000e-003	0.3943	2.8700e-003	0.3972	0.1046	2.6400e-003	0.1072	400.8084	400.8084	400.8084	0.0193		401.2142
Total	0.1525	0.1790	1.9423	5.0000e-003	0.3943	2.8700e-003	0.3972	0.1046	2.6400e-003	0.1072	400.8084	400.8084	400.8084	0.0193		401.2142

Otay Ranch Resort Village Year 4 Construction San Diego Air Basin, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
City Park	2.20	Acre	2.20	95,832.00	0
Single Family Housing	210.00	Dwelling Unit	58.80	378,000.00	601

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2019

Utility Company

CO2 Intensity (lb/MW/hr)	0	CH4 Intensity (lb/MW/hr)	0	N2O Intensity (lb/MW/hr)	0
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1.3 User Entered Comments & Non-Default Data

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	150.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	100.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	150.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	100.00
tblAreaCoating	Area_Nonresidential_Interior	143748	0
tblAreaCoating	Area_Residential_Exterior	255150	0
tblAreaCoating	Area_Residential_Interior	765450	0
tblAreaMitigation	UseLowVOCPaintNonresidentialExterior	250	0
tblAreaMitigation	UseLowVOCPaintNonresidentialInterior	250	0

tblAreaMitigation	UseLowVOCPaintResidentialExteriorVal	250		0
tblAreaMitigation	UseLowVOCPaintResidentialInteriorVal	250		0
tblConstructionPhase	NumDays	75.00		131.00
tblConstructionPhase	NumDays	1,110.00		218.00
tblConstructionPhase	NumDays	110.00		130.00
tblConstructionPhase	NumDays	75.00		131.00
tblConstructionPhase	PhaseEndDate	7/2/2019		12/31/2018
tblConstructionPhase	PhaseEndDate	5/31/2019		12/31/2018
tblConstructionPhase	PhaseEndDate	6/29/2018		6/30/2018
tblConstructionPhase	PhaseEndDate	7/2/2019		12/31/2018
tblConstructionPhase	PhaseEndDate	12/27/2018		7/31/2018
tblConstructionPhase	PhaseStartDate	1/1/2019		7/1/2018
tblConstructionPhase	PhaseStartDate	8/1/2018		3/1/2018
tblConstructionPhase	PhaseStartDate	1/1/2019		7/1/2018
tblConstructionPhase	PhaseStartDate	7/1/2018		2/1/2018
tblGrading	AcresOfGrading	910.00		79.30
tblGrading	MaterialExported	0.00		838,858.00
tblGrading	MaterialImported	0.00		838,858.00
tblLandUse	LotAcreage	68.18		58.80
tblOffRoadEquipment	HorsePower	400.00		189.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00		2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00		2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00		4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00		6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00		2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00		2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00		4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00		4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00		4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00		2.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblProjectCharacteristics	OperationalYear	2014	2019
tblTripsAndVMT	Hauling TripLength	20.00	0.25
tblTripsAndVMT	Vendor TripNumber	38.00	76.00
tblTripsAndVMT	Worker TripNumber	55.00	56.00
tblTripsAndVMT	Worker TripNumber	116.00	232.00
tblTripsAndVMT	Worker TripNumber	55.00	56.00
tblTripsAndVMT	Worker TripNumber	23.00	46.00

2.0 Emissions Summary

2.1 Overall Construction Unmitigated Construction

Year	tons/yr											MIT/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
2018	6.2571	23.5185	34.3974	0.0319	1.3171	1.1074	2.4245	0.5537	1.0275	1.5812	0.0000	2,771.5511	2,771.5511	0.6266	0.0000	2,784.7100
Total	6.2571	23.5185	34.3974	0.0319	1.3171	1.1074	2.4245	0.5537	1.0275	1.5812	0.0000	2,771.5511	2,771.5511	0.6266	0.0000	2,784.7100

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
2018	6.2571	23.5184	34.3974	0.0319	0.7420	1.1074	1.8494	0.2775	1.0275	1.3051	0.0000	2,771.548	2,771.5486	0.6266	0.0000	2,784.7075
Total	6.2571	23.5184	34.3974	0.0319	0.7420	1.1074	1.8494	0.2775	1.0275	1.3051	0.0000	2,771.548	2,771.5486	0.6266	0.0000	2,784.7075

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	43.66	0.00	23.72	49.88	0.00	17.46	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading	Grading	1/1/2018	6/30/2018	5	130	
2	Utilities	Trenching	2/1/2018	7/31/2018	5	129	
3	Building Construction	Building Construction	3/1/2018	12/31/2018	5	218	
4	Paving	Paving	7/1/2018	12/31/2018	5	131	
5	Architectural Coating	Architectural Coating	7/1/2018	12/31/2018	5	131	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 79.3

Acres of Paving: 0

Residential Indoor: 765,450; Residential Outdoor: 255,150; Non-Residential Indoor: 143,748; Non-Residential Outdoor: 47,916

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor

Grading	Excavators	4	8.00	162	0.38
Grading	Graders	2	8.00	174	0.41
Grading	Off-Highway Trucks	2	8.00	189	0.38
Grading	Rubber Tired Dozers	2	8.00	255	0.40
Grading	Scrapers	6	8.00	361	0.48
Grading	Tractors/Loaders/Backhoes	6	8.00	97	0.37
Utilities	Excavators	4	8.00	162	0.38
Utilities	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Utilities	Trenchers	2	8.00	80	0.50
Building Construction	Cranes	2	7.00	226	0.29
Building Construction	Forklifts	6	8.00	89	0.20
Building Construction	Generator Sets	2	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	6	7.00	97	0.37
Building Construction	Welders	2	8.00	46	0.45
Paving	Cement and Mortar Mixers	8	8.00	9	0.56
Paving	Pavers	4	8.00	125	0.42
Paving	Paving Equipment	4	8.00	130	0.36
Paving	Rollers	4	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	2	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
Grading	22	56.00	0.00	209,715.00	10.80	10.80	0.25	LD_Mix	LD_Mix	HHDT
Utilities	8	20.00	0.00	0.00	10.80	10.80	20.00	LD_Mix	LD_Mix	HHDT
Building Construction	18	232.00	76.00	0.00	10.80	10.80	20.00	LD_Mix	LD_Mix	HHDT
Paving	22	56.00	0.00	0.00	10.80	10.80	20.00	LD_Mix	LD_Mix	HHDT
Architectural Coating	2	46.00	0.00	0.00	10.80	10.80	20.00	LD_Mix	LD_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area
Reduce Vehicle Speed on Unpaved Roads

3.2 Grading - 2018

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																
MT/yr																
Fugitive Dust					0.9428	0.0000	0.9428	0.4527	0.0000	0.4527	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.9250	10.4642	7.1814	0.0112	0.4814	0.4814	0.4814	0.4429	0.4429	0.4429	0.0000	1,019.319	1,019.3193	0.3173	0.0000	1,025.9832
Total	0.9250	10.4642	7.1814	0.0112	0.9428	0.4814	1.4242	0.4527	0.4429	0.8957	0.0000	1,019.319	1,019.3193	0.3173	0.0000	1,025.9832

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																
MT/yr																
Hauling	0.9179	2.4465	16.9422	3.0300e-003	0.0245	9.0600e-003	0.0336	6.9200e-003	8.3000e-003	0.0152	0.0000	244.7313	244.7313	5.9200e-003	0.0000	244.8557
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	0.0103	0.0137	0.1282	3.6000e-004	0.0292	2.1000e-004	0.0294	7.7600e-003	2.0000e-004	7.9500e-003	0.0000	25.1691	25.1691	1.2400e-003	0.0000	25.1950
Total	0.9282	2.4601	17.0704	3.3900e-003	0.0537	9.2700e-003	0.0630	0.0147	8.5000e-003	0.0232	0.0000	269.9004	269.9004	7.1600e-003	0.0000	270.0507

Mitigated Construction On-Site

Off-Road	0.1707	1.6965	1.5188	2.2100e-003	0.1047	0.1047	0.0963	0.0963	0.0000	202.0538	202.0538	0.0629	0.0000	203.3748
Total	0.1707	1.6965	1.5188	2.2100e-003	0.1047	0.1047	0.0963	0.0963	0.0000	202.0538	202.0538	0.0629	0.0000	203.3748

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	3.6400e-003	4.8500e-003	0.0454	1.3000e-004	0.0103	8.0000e-005	0.0104	2.7500e-003	7.0000e-005	2.8200e-003	0.0000	8.9198	8.9198	4.4000e-004	0.0000	8.9290	
Total	3.6400e-003	4.8500e-003	0.0454	1.3000e-004	0.0103	8.0000e-005	0.0104	2.7500e-003	7.0000e-005	2.8200e-003	0.0000	8.9198	8.9198	4.4000e-004	0.0000	8.9290	

Mitigated Construction On-Site

Off-Road	0.1707	1.6965	1.5188	2.2100e-003	0.1047	0.1047	0.0963	0.0963	0.0000	202.0536	202.0536	0.0629	0.0000	203.3745
Total	0.1707	1.6965	1.5188	2.2100e-003	0.1047	0.1047	0.0963	0.0963	0.0000	202.0536	202.0536	0.0629	0.0000	203.3745

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
tons/yr																
MIT/yr																
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.6400e-003	4.8500e-003	0.0454	1.3000e-004	0.0103	8.0000e-005	0.0104	2.7500e-003	7.0000e-005	2.8200e-003	0.0000	8.9198	8.9198	4.4000e-004	0.0000	8.9290
Total	3.6400e-003	4.8500e-003	0.0454	1.3000e-004	0.0103	8.0000e-005	0.0104	2.7500e-003	7.0000e-005	2.8200e-003	0.0000	8.9198	8.9198	4.4000e-004	0.0000	8.9290

3.4 Building Construction - 2018

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																
MIT/yr																
Off-Road	0.5818	5.0709	3.8221	5.8400e-003	0.3258	0.3258	0.3258	0.3062	0.3062	0.3062	0.0000	516.1579	516.1579	0.1263	0.0000	518.8105
Total	0.5818	5.0709	3.8221	5.8400e-003	0.3258	0.3258	0.3258	0.3062	0.3062	0.3062	0.0000	516.1579	516.1579	0.1263	0.0000	518.8105

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
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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
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	0.0810	0.6533	1.0241	1.9600e-003	0.0539	9.6100e-003	0.0635	0.0154	8.8400e-003	0.0243	0.0000	172.6851	172.6851	1.3000e-003	0.0000	172.7124
Worker	0.0714	0.0950	0.8905	2.4900e-003	0.2028	1.4800e-003	0.2043	0.0539	1.3700e-003	0.0553	0.0000	174.8559	174.8559	8.5900e-003	0.0000	175.0363
Total	0.1524	0.7483	1.9146	4.4500e-003	0.2567	0.0111	0.2678	0.0693	0.0102	0.0795	0.0000	347.5410	347.5410	9.8900e-003	0.0000	347.7487

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	0.5818	5.0709	3.8221	5.8400e-003	0.3258	0.3258	0.3258	0.3062	0.3062	0.3062	0.0000	516.1573	516.1573	0.1263	0.0000	518.8099
Total	0.5818	5.0709	3.8221	5.8400e-003	0.3258	0.3258	0.3258	0.3062	0.3062	0.3062	0.0000	516.1573	516.1573	0.1263	0.0000	518.8099

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	0.0810	0.6533	1.0241	1.9600e-003	0.0539	9.6100e-003	0.0635	0.0154	8.8400e-003	0.0243	0.0000	172.6851	172.6851	1.3000e-003	0.0000	172.7124
Worker	0.0714	0.0950	0.8905	2.4900e-003	0.2028	1.4800e-003	0.2043	0.0539	1.3700e-003	0.0553	0.0000	174.8559	174.8559	8.5900e-003	0.0000	175.0363

Total	0.1524	0.7483	1.9146	4.4500e-003	0.2567	0.0111	0.2678	0.0693	0.0102	0.0795	0.0000	347.5410	347.5410	9.8900e-003	0.0000	347.7487
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3.5 Paving - 2018

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	INBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Off-Road	0.2767	2.7857	2.3665	3.7000e-003	0.1550	0.1550	0.1550	0.1432	0.1432	0.1432	0.0000	328.0149	328.0149	0.0971	0.0000	330.0547
Paving	0.0000	0.0000	0.0000	0.0000	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	0.2767	2.7857	2.3665	3.7000e-003	0.1550	0.1550	0.1550	0.1432	0.1432	0.1432	0.0000	328.0149	328.0149	0.0971	0.0000	330.0547

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	INBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0104	0.0138	0.1292	3.6000e-004	0.0294	2.1000e-004	0.0296	7.8200e-003	2.0000e-004	8.0200e-003	0.0000	25.3627	25.3627	1.2500e-003	0.0000	25.3889
Total	0.0104	0.0138	0.1292	3.6000e-004	0.0294	2.1000e-004	0.0296	7.8200e-003	2.0000e-004	8.0200e-003	0.0000	25.3627	25.3627	1.2500e-003	0.0000	25.3889

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	INBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr															
MIT/yr																
Off-Road	0.2767	2.7857	2.3665	3.7000e-003	0.1550	0.1550	0.1550	0.1432	0.1432	0.1432	0.0000	328.0145	328.0145	0.0971	0.0000	330.0543
Paving	0.0000				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	0.2767	2.7857	2.3665	3.7000e-003	0.1550	0.1550	0.1550	0.1432	0.1432	0.1432	0.0000	328.0145	328.0145	0.0971	0.0000	330.0543

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	INBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr															
MIT/yr																
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0104	0.0138	0.1292	3.6000e-004	0.0294	2.1000e-004	0.0296	7.8200e-003	2.0000e-004	8.0200e-003	0.0000	25.3627	25.3627	1.2500e-003	0.0000	25.3889
Total	0.0104	0.0138	0.1292	3.6000e-004	0.0294	2.1000e-004	0.0296	7.8200e-003	2.0000e-004	8.0200e-003	0.0000	25.3627	25.3627	1.2500e-003	0.0000	25.3889

3.6 Architectural Coating - 2018 Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	INBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr															
MIT/yr																

Archit. Coating	3.1606				0.0000	0.0000	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	0.0391	0.2628	3.9000e-004		0.0197	0.0197	0.0197	0.0197	0.0197	0.0197	0.0197	0.0197	0.0197	0.0197	0.0197	0.0197	0.0197	0.0197
Total	3.1997	0.2628	3.9000e-004		0.0197	0.0197	0.0197	0.0197	0.0197	0.0197	0.0197	0.0197	0.0197	0.0197	0.0197	0.0197	0.0197	0.0197

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	8.5100e-003	0.0113	0.1061	3.0000e-004	0.0242	1.8000e-004	0.0243	6.4200e-003	1.6000e-004	6.5800e-003	0.0000	20.8336	20.8336	1.0200e-003	0.0000	20.8551						
Total	8.5100e-003	0.0113	0.1061	3.0000e-004	0.0242	1.8000e-004	0.0243	6.4200e-003	1.6000e-004	6.5800e-003	0.0000	20.8336	20.8336	1.0200e-003	0.0000	20.8551						

Mitigated Construction On-Site

Archit. Coating	3.1606				0.0000	0.0000	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	0.0391	0.2628	3.9000e-004		0.0197	0.0197	0.0197	0.0197	0.0197	0.0197	0.0000	33.4476	33.4476	3.1800e-003	0.0000	33.5144		
Total	3.1997	0.2628	3.9000e-004		0.0197	0.0197	0.0197	0.0197	0.0197	0.0197	0.0000	33.4476	33.4476	3.1800e-003	0.0000	33.5144		

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
	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.5100e-003	0.0113	0.1061	3.0000e-004	0.0242	1.8000e-004	0.0243	6.4200e-003	1.6000e-004	6.5800e-003	0.0000	20.8336	20.8336	1.0200e-003	0.0000	20.8551
Total	8.5100e-003	0.0113	0.1061	3.0000e-004	0.0242	1.8000e-004	0.0243	6.4200e-003	1.6000e-004	6.5800e-003	0.0000	20.8336	20.8336	1.0200e-003	0.0000	20.8551

Otay Ranch Resort Village Year 4 Construction

San Diego Air Basin, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
City Park	2.20	Acre	2.20	95,832.00	0
Single Family Housing	210.00	Dwelling Unit	58.80	378,000.00	601

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2019

Utility Company

CO2 Intensity (lb/MW/hr)	0	CH4 Intensity (lb/MW/hr)	0	N2O Intensity (lb/MW/hr)	0
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1.3 User Entered Comments & Non-Default Data

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	150.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	100.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	150.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	100.00
tblAreaCoating	Area_Nonresidential_Interior	143748	0
tblAreaCoating	Area_Residential_Exterior	255150	0
tblAreaCoating	Area_Residential_Interior	765450	0
tblAreaMitigation	UseLowVOCPaintNonresidentialExterior	250	0
tblAreaMitigation	UseLowVOCPaintNonresidentialInterior	250	0

tblAreaMitigation	UseLowVOCPaintResidentialExteriorVal	250		0
tblAreaMitigation	UseLowVOCPaintResidentialInteriorVal	250		0
tblConstructionPhase	NumDays	75.00		131.00
tblConstructionPhase	NumDays	1,110.00		218.00
tblConstructionPhase	NumDays	110.00		130.00
tblConstructionPhase	NumDays	75.00		131.00
tblConstructionPhase	PhaseEndDate	7/2/2019		12/31/2018
tblConstructionPhase	PhaseEndDate	5/31/2019		12/31/2018
tblConstructionPhase	PhaseEndDate	6/29/2018		6/30/2018
tblConstructionPhase	PhaseEndDate	7/2/2019		12/31/2018
tblConstructionPhase	PhaseEndDate	12/27/2018		7/31/2018
tblConstructionPhase	PhaseStartDate	1/1/2019		7/1/2018
tblConstructionPhase	PhaseStartDate	8/1/2018		3/1/2018
tblConstructionPhase	PhaseStartDate	1/1/2019		7/1/2018
tblConstructionPhase	PhaseStartDate	7/1/2018		2/1/2018
tblGrading	AcresOfGrading	910.00		79.30
tblGrading	MaterialExported	0.00		838,858.00
tblGrading	MaterialImported	0.00		838,858.00
tblLandUse	LotAcreage	68.18		58.80
tblOffRoadEquipment	HorsePower	400.00		189.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00		2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00		2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00		4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00		6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00		2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00		2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00		4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00		4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00		4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00		2.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblProjectCharacteristics	OperationalYear	2014	2019
tblTripsAndVMT	HaulingTripLength	20.00	0.25
tblTripsAndVMT	VendorTripNumber	38.00	76.00
tblTripsAndVMT	WorkerTripNumber	55.00	56.00
tblTripsAndVMT	WorkerTripNumber	116.00	232.00
tblTripsAndVMT	WorkerTripNumber	55.00	56.00
tblTripsAndVMT	WorkerTripNumber	23.00	46.00

2.0 Emissions Summary

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
2018	62.7691	277.8234	387.5391	0.3566	17.9238	12.2579	30.1817	7.8883	11.3369	19.2252	0.0000	34,452.97	34,452.978	7.9576	0.0000	34,620.088
Total	62.7691	277.8234	387.5391	0.3566	17.9238	12.2579	30.1817	7.8883	11.3369	19.2252	0.0000	34,452.97	34,452.978	7.9576	0.0000	34,620.088

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
lb/day																
2018	62.7691	277.8234	387.5391	0.3566	9.0761	12.2579	21.3339	3.6397	11.3369	14.9766	0.0000	34,452.97	34,452.978	7.9576	0.0000	34,620.088
Total	62.7691	277.8234	387.5391	0.3566	9.0761	12.2579	21.3339	3.6397	11.3369	14.9766	0.0000	34,452.97	34,452.978	7.9576	0.0000	34,620.088

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	49.36	0.00	29.32	53.86	0.00	22.10	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading	Grading	1/1/2018	6/30/2018	5	130	
2	Utilities	Trenching	2/1/2018	7/31/2018	5	129	
3	Building Construction	Building Construction	3/1/2018	12/31/2018	5	218	
4	Paving	Paving	7/1/2018	12/31/2018	5	131	
5	Architectural Coating	Architectural Coating	7/1/2018	12/31/2018	5	131	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 79.3

Acres of Paving: 0

Residential Indoor: 765,450; Residential Outdoor: 255,150; Non-Residential Indoor: 143,748; Non-Residential Outdoor: 47,916

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor

Grading	Excavators	4	8.00	162	0.38
Grading	Graders	2	8.00	174	0.41
Grading	Off-Highway Trucks	2	8.00	189	0.38
Grading	Rubber Tired Dozers	2	8.00	255	0.40
Grading	Scrapers	6	8.00	361	0.48
Grading	Tractors/Loaders/Backhoes	6	8.00	97	0.37
Utilities	Excavators	4	8.00	162	0.38
Utilities	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Utilities	Trenchers	2	8.00	80	0.50
Building Construction	Cranes	2	7.00	226	0.29
Building Construction	Forklifts	6	8.00	89	0.20
Building Construction	Generator Sets	2	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	6	7.00	97	0.37
Building Construction	Welders	2	8.00	46	0.45
Paving	Cement and Mortar Mixers	8	8.00	9	0.56
Paving	Pavers	4	8.00	125	0.42
Paving	Paving Equipment	4	8.00	130	0.36
Paving	Rollers	4	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	2	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
Grading	22	56.00	0.00	209,715.00	10.80	7.30	0.25	LD_Mix	HDT_Mix	HHDT
Utilities	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	18	232.00	76.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	22	56.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	2	46.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area
Reduce Vehicle Speed on Unpaved Roads

3.2 Grading - 2018

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					14.5046	0.0000	14.5046	6.9649	0.0000	6.9649			0.0000			0.0000
Off-Road	14.2307	160.9880	110.4829	0.1717	7.4068	7.4068	7.4068	6.8143	6.8143	6.8143		17,286.26	17,286.264	5.3815		17,399.274
Total	14.2307	160.9880	110.4829	0.1717	14.5046	7.4068	21.9114	6.9649	6.8143	13.7792		17,286.26	17,286.264	5.3815		17,399.274
lb/day																

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	12.2986	37.1452	199.5694	0.0469	0.3847	0.1334	0.5181	0.1083	0.1222	0.2306		4,266.303	4,266.3031	0.0954		4,268.3070
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	0.1622	0.1905	2.0569	5.8300e-003	0.4600	3.2800e-003	0.4633	0.1220	3.0400e-003	0.1251		450.0699	450.0699	0.0210		450.5103
Total	12.4608	37.3357	201.6263	0.0527	0.8448	0.1367	0.9814	0.2303	0.1253	0.3556		4,716.373	4,716.3730	0.1164		4,718.8173
lb/day																

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					5.6568	0.0000	5.6568	2.7163	0.0000	2.7163			0.0000			0.0000
Off-Road	14.2307	160.9880	110.4829	0.1717	7.4068	7.4068	7.4068	6.8143	6.8143	6.8143	0.0000	17,286.2642	17,286.2642	5.3815		17,399.2747
Total	14.2307	160.9880	110.4829	0.1717	5.6568	7.4068	13.0636	2.7163	6.8143	9.5306	0.0000	17,286.2642	17,286.2642	5.3815		17,399.2747

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	12.2986	37.1452	199.5694	0.0469	0.3847	0.1334	0.5181	0.1083	0.1222	0.2306		4,266.3031	4,266.3031	0.0954		4,268.3070
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	0.1622	0.1905	2.0569	5.8300e-003	0.4600	3.2800e-003	0.4633	0.1220	3.0400e-003	0.1251		450.0699	450.0699	0.0210		450.5103
Total	12.4608	37.3357	201.6263	0.0527	0.8448	0.1367	0.9814	0.2303	0.1253	0.3556		4,716.3730	4,716.3730	0.1164		4,718.8173

3.3 Utilities - 2018 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	2.6466	26.3027	23.5468	0.0343	1.6233	1.6233	1.4934	1.4934	1.4934	1.0750	1.0750	3,453.1197	3,453.1197	13,475.6948
Total	2.6466	26.3027	23.5468	0.0343	1.6233	1.6233	1.4934	1.4934	1.4934	1.0750	1.0750	3,453.1197	3,453.1197	13,475.6948

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
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	0.0579	0.0680	0.7346	2.0800e-003	0.1643	1.1700e-003	0.1655	0.0436	1.0800e-003	0.0447			160.7393	7.4900e-003		160.8966
Total	0.0579	0.0680	0.7346	2.0800e-003	0.1643	1.1700e-003	0.1655	0.0436	1.0800e-003	0.0447			160.7393	7.4900e-003		160.8966

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
Off-Road	2.6466	26.3027	23.5468	0.0343	1.6233	1.6233	1.6233	1.4934	1.4934	1.4934	0.0000		3,453.1197	1.0750		13,475.6948
Total	2.6466	26.3027	23.5468	0.0343	1.6233	1.6233	1.6233	1.4934	1.4934	1.4934	0.0000		3,453.1197	1.0750		13,475.6948

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
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	0.0579	0.0680	0.7346	2.0800e-003	0.1643	1.1700e-003	0.1655	0.0436	1.0800e-003	0.0447	160.7393	160.7393	160.7393	7.4900e-003		160.8966
Total	0.0579	0.0680	0.7346	2.0800e-003	0.1643	1.1700e-003	0.1655	0.0436	1.0800e-003	0.0447	160.7393	160.7393	160.7393	7.4900e-003		160.8966

3.4 Building Construction - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Off-Road	5.3374	46.5217	35.0653	0.0536	2.9886	2.9886	2.9886	2.8096	2.8096	2.8096	5,219.8779	5,219.8779	5,219.8779	1.2774		5,246.7034
Total	5.3374	46.5217	35.0653	0.0536	2.9886	2.9886	2.9886	2.8096	2.8096	2.8096	5,219.8779	5,219.8779	5,219.8779	1.2774		5,246.7034

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															

Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.6840	5.8180	7.5617	0.0180	0.5044	0.0878	0.5922	0.1439	0.0808	0.2247	1,752.0289	1,752.0289	0.0130	0.0130	1,752.3016	1,752.3016
Worker	0.6720	0.7893	8.5214	0.0241	1.9058	0.0136	1.9194	0.5055	0.0126	0.5181	1,864.5754	1,864.5754	0.0869	0.0869	1,866.3999	1,866.3999
Total	1.3560	6.6073	16.0831	0.0422	2.4102	0.1014	2.5116	0.6494	0.0933	0.7427	3,616.6043	3,616.6043	0.0999	0.0999	3,618.7015	3,618.7015

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
Off-Road	5.3374	46.5217	35.0653	0.0536	2.9886	2.9886	2.9886	2.8096	2.8096	2.8096	0.0000	15,219.8779	15,219.8779	1.2774	1.2774	15,246.7034
Total	5.3374	46.5217	35.0653	0.0536	2.9886	2.9886	2.9886	2.8096	2.8096	2.8096	0.0000	15,219.8779	15,219.8779	1.2774	1.2774	15,246.7034

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
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	0.6840	5.8180	7.5617	0.0180	0.5044	0.0878	0.5922	0.1439	0.0808	0.2247	1,752.0289	1,752.0289	0.0130	0.0130	1,752.3016	1,752.3016
Worker	0.6720	0.7893	8.5214	0.0241	1.9058	0.0136	1.9194	0.5055	0.0126	0.5181	1,864.5754	1,864.5754	0.0869	0.0869	1,866.3999	1,866.3999

Total	1.3560	6.6073	16.0831	0.0422	2.4102	0.1014	2.5116	0.6494	0.0933	0.7427	3,616.604	3,616.6043	0.0999	3,618.7015
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3.5 Paving - 2018

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	4.2251	42.5305	36.1292	0.0565	2.3658	2.3658	2.3658	2.1858	2.1858	2.1858		5,520.2214	5,520.2214	1.6347		5,554.5494
Paving	0.0000				0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Total	4.2251	42.5305	36.1292	0.0565	2.3658	2.3658	2.3658	2.1858	2.1858	2.1858		5,520.2214	5,520.2214	1.6347		5,554.5494

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	0.0000	0.0000	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	0.1622	0.1905	2.0569	5.8300e-003	0.4600	3.2800e-003	0.4633	0.1220	3.0400e-003	0.1251		450.0699	450.0699	0.0210		450.5703
Total	0.1622	0.1905	2.0569	5.8300e-003	0.4600	3.2800e-003	0.4633	0.1220	3.0400e-003	0.1251		450.0699	450.0699	0.0210		450.5703

Mitigated Construction On-Site

Archit. Coating	48.2534					0.0000	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	0.5973	4.0115	3.7084	5.9400e-003	0.3011	0.3011	0.3011	0.3011	0.3011	0.3011	0.3011	0.3011	0.3011	0.3011	0.0535	562.8971	562.8971	564.0203
Total	48.8507	4.0115	3.7084	5.9400e-003	0.3011	0.3011	0.3011	0.3011	0.3011	0.3011	0.3011	0.3011	0.3011	0.3011	0.0535	562.8971	562.8971	564.0203

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
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	0.1332	0.1565	1.6896	4.7900e-003	0.3779	2.7000e-003	0.3806	0.1002	2.4900e-003	0.1027		369.7003	369.7003	0.0172		370.0621
Total	0.1332	0.1565	1.6896	4.7900e-003	0.3779	2.7000e-003	0.3806	0.1002	2.4900e-003	0.1027		369.7003	369.7003	0.0172		370.0621

Mitigated Construction On-Site

Archit. Coating	48.2534					0.0000	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	0.5973	4.0115	3.7084	5.9400e-003	0.3011	0.3011	0.3011	0.3011	0.3011	0.3011	0.0000	562.8971	562.8971	0.0535		564.0203		
Total	48.8507	4.0115	3.7084	5.9400e-003	0.3011	0.3011	0.3011	0.3011	0.3011	0.3011	0.0000	562.8971	562.8971	0.0535		564.0203		

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	0.1332	0.1565	1.6896	4.7900e-003	0.3779	2.7000e-003	0.3806	0.1002	2.4900e-003	0.1027	369.7003	369.7003	0.0172	0.0000	0.0000	370.0621
Total	0.1332	0.1565	1.6896	4.7900e-003	0.3779	2.7000e-003	0.3806	0.1002	2.4900e-003	0.1027	369.7003	369.7003	0.0172	0.0000	0.0000	370.0621

Otay Ranch Resort Village Year 5 Construction San Diego Air Basin, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
City Park	2.40	Acre	2.40	104,544.00	0
Single Family Housing	210.00	Dwelling Unit	58.80	378,000.00	601

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2020

Utility Company

CO2 Intensity (lb/MW/hr)	0	CH4 Intensity (lb/MW/hr)	0	N2O Intensity (lb/MW/hr)	0
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1.3 User Entered Comments & Non-Default Data

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	150.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	100.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	150.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	100.00
tblAreaCoating	Area_Nonresidential_Interior	156816	0
tblAreaCoating	Area_Residential_Exterior	255150	0
tblAreaCoating	Area_Residential_Interior	765450	0
tblAreaMitigation	UseLowVOCPaintNonresidentialExterior	250	0
tblAreaMitigation	UseLowVOCPaintNonresidentialInterior	250	0

tblAreaMitigation	UseLowVOCPaintResidentialExteriorVal	250		0
tblAreaMitigation	UseLowVOCPaintResidentialInteriorVal	250		0
tblConstructionPhase	NumDays	75.00		132.00
tblConstructionPhase	NumDays	1,110.00		218.00
tblConstructionPhase	NumDays	110.00		129.00
tblConstructionPhase	NumDays	75.00		132.00
tblConstructionPhase	PhaseEndDate	7/2/2020		12/31/2019
tblConstructionPhase	PhaseEndDate	6/1/2020		12/31/2019
tblConstructionPhase	PhaseEndDate	6/28/2019		6/30/2019
tblConstructionPhase	PhaseEndDate	7/2/2020		12/31/2019
tblConstructionPhase	PhaseEndDate	12/26/2019		7/31/2019
tblConstructionPhase	PhaseStartDate	1/1/2020		7/1/2019
tblConstructionPhase	PhaseStartDate	8/1/2019		3/1/2019
tblConstructionPhase	PhaseStartDate	1/1/2020		7/1/2019
tblConstructionPhase	PhaseStartDate	7/1/2019		2/1/2019
tblGrading	AcresOfGrading	903.00		79.60
tblGrading	MaterialExported	0.00		842,031.00
tblGrading	MaterialImported	0.00		842,031.00
tblLandUse	LotAcreage	68.18		58.80
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00		2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00		2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00		4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00		6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00		2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00		2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00		4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00		4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00		4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00		2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00		6.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblProjectCharacteristics	OperationalYear	2014	2020
tblTripsAndVMT	HaulingTripLength	20.00	0.25
tblTripsAndVMT	VendorTripNumber	40.00	80.00
tblTripsAndVMT	WorkerTripNumber	55.00	56.00
tblTripsAndVMT	WorkerTripNumber	120.00	240.00
tblTripsAndVMT	WorkerTripNumber	55.00	56.00
tblTripsAndVMT	WorkerTripNumber	24.00	48.00

2.0 Emissions Summary

2.1 Overall Construction 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	6.0815	21.7747	33.5367	0.0330	1.3229	0.9872	2.3100	0.5535	0.9159	1.4693	0.0000	2,817.180	2,817.1804	0.6478	0.0000	2,830.7831
Total	6.0815	21.7747	33.5367	0.0330	1.3229	0.9872	2.3100	0.5535	0.9159	1.4693	0.0000	2,817.180	2,817.1804	0.6478	0.0000	2,830.7831

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	6.0815	21.7747	33.5367	0.0330	1.3229	0.9872	2.3100	0.5535	0.9159	1.4693	0.0000	2,817.180	2,817.1804	0.6478	0.0000	2,830.7831
Total	6.0815	21.7747	33.5367	0.0330	1.3229	0.9872	2.3100	0.5535	0.9159	1.4693	0.0000	2,817.180	2,817.1804	0.6478	0.0000	2,830.7831

Year	tons/yr										MT/yr					
2019	6.0815	21.7746	33.5367	0.0330	0.7511	0.9872	1.7382	0.2793	0.9159	1.1952	0.0000	2,817.177	2,817.1778	0.6478	0.0000	2,830.7806
Total	6.0815	21.7746	33.5367	0.0330	0.7511	0.9872	1.7382	0.2793	0.9159	1.1952	0.0000	2,817.177	2,817.1778	0.6478	0.0000	2,830.7806

ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBic-CO2	Total CO2	CH4	N2O	CO2e
0.00	0.00	0.00	0.00	43.22	0.00	24.75	49.54	0.00	18.66	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading	Grading	11/1/2019	6/30/2019	5	129	
2	Utilities	Trenching	12/1/2019	7/31/2019	5	129	
3	Building Construction	Building Construction	3/1/2019	12/31/2019	5	218	
4	Paving	Paving	7/1/2019	12/31/2019	5	132	
5	Architectural Coating	Architectural Coating	7/1/2019	12/31/2019	5	132	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 79.6

Acres of Paving: 0

Residential Indoor: 765,450; Residential Outdoor: 255,150; Non-Residential Indoor: 156,816; Non-Residential Outdoor: 52,272

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Excavators	4	8.00	162	0.38

Grading	Graders	2	8.00	174	0.41
Grading	Off-Highway Trucks	2	8.00	400	0.38
Grading	Rubber Tired Dozers	2	8.00	255	0.40
Grading	Scrapers	6	8.00	361	0.48
Grading	Tractors/Loaders/Backhoes	6	8.00	97	0.37
Utilities	Excavators	4	8.00	162	0.38
Utilities	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Utilities	Trenchers	2	8.00	80	0.50
Building Construction	Cranes	2	7.00	226	0.29
Building Construction	Forklifts	6	8.00	89	0.20
Building Construction	Generator Sets	2	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	6	7.00	97	0.37
Building Construction	Welders	2	8.00	46	0.45
Paving	Cement and Mortar Mixers	8	8.00	9	0.56
Paving	Pavers	4	8.00	125	0.42
Paving	Paving Equipment	4	8.00	130	0.36
Paving	Rollers	4	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	2	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
Grading	22	56.00	0.00	210,508.00	10.80	7.30	0.25	LD_Mix	HDT_Mix	HHDT
Utilities	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	18	240.00	80.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	22	56.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	2	48.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area
 Reduce Vehicle Speed on Unpaved Roads

3.2 Grading - 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
	MT/yr															
	tons/yr															
Fugitive Dust					0.9374	0.0000	0.9374	0.4495	0.0000	0.4495	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.8873	9.8545	7.0303	0.0120	0.4410	0.4410	0.4410	0.4058	0.4058	0.4058	0.0000	1,076.1055	1,076.1055	0.3405	0.0000	1,083.2553
Total	0.8873	9.8545	7.0303	0.0120	0.9374	0.4410	1.3784	0.4495	0.4058	0.8552	0.0000	1,076.1055	1,076.1055	0.3405	0.0000	1,083.2553

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
	MT/yr															
	tons/yr															
Hauling	0.8549	2.3464	16.4015	3.0300e-003	0.0246	8.8400e-003	0.0335	6.9500e-003	8.1100e-003	0.0151	0.0000	241.3200	241.3200	6.0700e-003	0.0000	241.4475
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	9.4700e-003	0.0125	0.1170	3.6000e-004	0.0290	2.1000e-004	0.0292	7.7000e-003	1.9000e-004	7.8900e-003	0.0000	24.0719	24.0719	1.1500e-003	0.0000	24.0962
Total	0.8644	2.3589	16.5185	3.3900e-003	0.0536	9.0500e-003	0.0626	0.0147	8.3000e-003	0.0230	0.0000	265.3919	265.3919	7.2200e-003	0.0000	265.5437

Mitigated Construction On-Site

Off-Road	0.1565	1.5293	1.5094	2.2100e-003	0.0935	0.0935	0.0861	0.0861	0.0000	198.7217	198.7217	0.0629	0.0000	200.0421
Total	0.1565	1.5293	1.5094	2.2100e-003	0.0935	0.0935	0.0861	0.0861	0.0000	198.7217	198.7217	0.0629	0.0000	200.0421

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	3.3800e-003	4.4800e-003	0.0418	1.3000e-004	0.0103	8.0000e-005	0.0104	2.7500e-003	7.0000e-005	2.8200e-003	0.0000	8.5971	8.5971	4.1000e-004	0.0000	8.6058
Total	3.3800e-003	4.4800e-003	0.0418	1.3000e-004	0.0103	8.0000e-005	0.0104	2.7500e-003	7.0000e-005	2.8200e-003	0.0000	8.5971	8.5971	4.1000e-004	0.0000	8.6058

Mitigated Construction On-Site

Off-Road	0.1565	1.5293	1.5094	2.2100e-003	0.0935	0.0935	0.0861	0.0861	0.0000	198.7215	198.7215	0.0629	0.0000	200.0418
Total	0.1565	1.5293	1.5094	2.2100e-003	0.0935	0.0935	0.0861	0.0861	0.0000	198.7215	198.7215	0.0629	0.0000	200.0418

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	0.0796	0.6258	1.0288	2.0600e-003	0.0567	9.4000e-003	0.0661	0.0162	8.6500e-003	0.0249	0.0000	178.6417	178.6417	1.3300e-003	0.0000	178.6697
Worker	0.0686	0.0908	0.8474	2.5800e-003	0.2098	1.5200e-003	0.2113	0.0558	1.4100e-003	0.0572	0.0000	174.3416	174.3416	8.3600e-003	0.0000	174.5172
Total	0.1482	0.7166	1.8762	4.6400e-003	0.2665	0.0109	0.2774	0.0720	0.0101	0.0820	0.0000	352.9833	352.9833	9.6900e-003	0.0000	353.1869

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	0.5127	4.5704	3.7322	5.8400e-003	0.2801	0.2801	0.2801	0.2634	0.2634	0.2634	0.0000	510.3870	510.3870	0.1242	0.0000	512.9948
Total	0.5127	4.5704	3.7322	5.8400e-003	0.2801	0.2801	0.2801	0.2634	0.2634	0.2634	0.0000	510.3870	510.3870	0.1242	0.0000	512.9948

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	0.0796	0.6258	1.0288	2.0600e-003	0.0567	9.4000e-003	0.0661	0.0162	8.6500e-003	0.0249	0.0000	178.6417	178.6417	1.3300e-003	0.0000	178.6697
Worker	0.0686	0.0908	0.8474	2.5800e-003	0.2098	1.5200e-003	0.2113	0.0558	1.4100e-003	0.0572	0.0000	174.3416	174.3416	8.3600e-003	0.0000	174.5172

Total	0.1482	0.7166	1.8762	4.6400e-003	0.2665	0.0109	0.2774	0.0720	0.0101	0.0820	0.0000	352.9833	352.9833	9.6900e-003	0.0000	353.1869
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3.5 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	INBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Off-Road	0.2500	2.4744	2.3630	3.7300e-003	0.1350	0.1350	0.1350	0.1249	0.1249	0.1249	0.0000	325.5456	325.5456	0.0979	0.0000	327.6006
Paving	0.0000	0.0000	0.0000	0.0000	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	0.2500	2.4744	2.3630	3.7300e-003	0.1350	0.1350	0.1350	0.1249	0.1249	0.1249	0.0000	325.5456	325.5456	0.0979	0.0000	327.6006

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	INBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.6900e-003	0.0128	0.1197	3.6000e-004	0.0296	2.2000e-004	0.0299	7.8800e-003	2.0000e-004	8.0800e-003	0.0000	24.6318	24.6318	1.1800e-003	0.0000	24.6566
Total	9.6900e-003	0.0128	0.1197	3.6000e-004	0.0296	2.2000e-004	0.0299	7.8800e-003	2.0000e-004	8.0800e-003	0.0000	24.6318	24.6318	1.1800e-003	0.0000	24.6566

Mitigated Construction On-Site

Archit. Coating	3.2060						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	0.0352	0.2423	0.2431	3.9000e-004	0.0170	0.0170	0.0170	0.0170	0.0170	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2.8500e-003	0.0000	33.7627
Total	3.2412	0.2423	0.2431	3.9000e-004	0.0170	0.0170	0.0170	0.0170	0.0170	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2.8500e-003	0.0000	33.7627

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	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	0.0000	0.0000
Worker	8.3000e-003	0.0110	0.1026	3.1000e-004	0.0254	1.8000e-004	0.0256	6.7500e-003	1.7000e-004	6.9200e-003	0.0000	21.1129	21.1129	1.0100e-003	0.0000	0.0000	21.1342	0.0000	21.1342
Total	8.3000e-003	0.0110	0.1026	3.1000e-004	0.0254	1.8000e-004	0.0256	6.7500e-003	1.7000e-004	6.9200e-003	0.0000	21.1129	21.1129	1.0100e-003	0.0000	0.0000	21.1342	0.0000	21.1342

Mitigated Construction On-Site

Archit. Coating	3.2060						0.0000	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	0.0352	0.2423	0.2431	3.9000e-004	0.0170	0.0170	0.0170	0.0170	0.0170	0.0170	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2.8500e-003	0.0000	33.7627
Total	3.2412	0.2423	0.2431	3.9000e-004	0.0170	0.0170	0.0170	0.0170	0.0170	0.0170	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2.8500e-003	0.0000	33.7627

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
tons/yr											MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.3000e-003	0.0110	0.1026	3.1000e-004	0.0254	1.8000e-004	0.0256	6.7500e-003	1.7000e-004	6.9200e-003	0.0000	21.1129	21.1129	1.0100e-003	0.0000	21.1342
Total	8.3000e-003	0.0110	0.1026	3.1000e-004	0.0254	1.8000e-004	0.0256	6.7500e-003	1.7000e-004	6.9200e-003	0.0000	21.1129	21.1129	1.0100e-003	0.0000	21.1342

Otay Ranch Resort Village Year 5 Construction San Diego Air Basin, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
City Park	2.40	Acre	2.40	104,544.00	0
Single Family Housing	210.00	Dwelling Unit	58.80	378,000.00	601

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2020

Utility Company

CO2 Intensity (lb/MW/hr)	0	CH4 Intensity (lb/MW/hr)	0	N2O Intensity (lb/MW/hr)	0
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1.3 User Entered Comments & Non-Default Data

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	150.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	100.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	150.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	100.00
tblAreaCoating	Area_Nonresidential_Interior	156816	0
tblAreaCoating	Area_Residential_Exterior	255150	0
tblAreaCoating	Area_Residential_Interior	765450	0
tblAreaMitigation	UseLowVOCPaintNonresidentialExterior	250	0
tblAreaMitigation	UseLowVOCPaintNonresidentialInterior	250	0

tblAreaMitigation	UseLowVOCPaintResidentialExteriorVal	250		0
tblAreaMitigation	UseLowVOCPaintResidentialInteriorVal	250		0
tblConstructionPhase	NumDays	75.00		132.00
tblConstructionPhase	NumDays	1,110.00		218.00
tblConstructionPhase	NumDays	110.00		129.00
tblConstructionPhase	NumDays	75.00		132.00
tblConstructionPhase	PhaseEndDate	7/2/2020		12/31/2019
tblConstructionPhase	PhaseEndDate	6/1/2020		12/31/2019
tblConstructionPhase	PhaseEndDate	6/28/2019		6/30/2019
tblConstructionPhase	PhaseEndDate	7/2/2020		12/31/2019
tblConstructionPhase	PhaseEndDate	12/28/2019		7/31/2019
tblConstructionPhase	PhaseStartDate	1/1/2020		7/1/2019
tblConstructionPhase	PhaseStartDate	8/1/2019		3/1/2019
tblConstructionPhase	PhaseStartDate	1/1/2020		7/1/2019
tblConstructionPhase	PhaseStartDate	7/1/2019		2/1/2019
tblGrading	AcresOfGrading	903.00		79.60
tblGrading	MaterialExported	0.00		842,031.00
tblGrading	MaterialImported	0.00		842,031.00
tblLandUse	LotAcreage	68.18		58.80
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00		2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00		2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00		4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00		6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00		2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00		2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00		4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00		4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00		4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00		2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00		6.00

Year	lb/day										lb/day																					
2019	61.6796	260.8942	378.7306	0.3726	9.1838	11.0932	20.2770	3.6674	10.2577	13.9251	0.0000	35,448.43	35,448.436	8.3722	0.0000	35,624.252	61.6796	260.8942	378.7306	0.3726	9.1838	11.0932	20.2770	3.6674	10.2577	13.9251	0.0000	35,448.43	35,448.436	8.3722	0.0000	35,624.252
Total	61.6796	260.8942	378.7306	0.3726	9.1838	11.0932	20.2770	3.6674	10.2577	13.9251	0.0000	35,448.43	35,448.436	8.3722	0.0000	35,624.252	61.6796	260.8942	378.7306	0.3726	9.1838	11.0932	20.2770	3.6674	10.2577	13.9251	0.0000	35,448.43	35,448.436	8.3722	0.0000	35,624.252

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	49.12	0.00	30.42	53.69	0.00	23.39	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading	Grading	1/1/2019	6/30/2019	5	129	
2	Utilities	Trenching	2/1/2019	7/31/2019	5	129	
3	Building Construction	Building Construction	3/1/2019	12/31/2019	5	218	
4	Paving	Paving	7/1/2019	12/31/2019	5	132	
5	Architectural Coating	Architectural Coating	7/1/2019	12/31/2019	5	132	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 79.6

Acres of Paving: 0

Residential Indoor: 765,450; Residential Outdoor: 255,150; Non-Residential Indoor: 156,816; Non-Residential Outdoor: 52,272

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Excavators	4	8.00	162	0.38

Grading	Graders	2	8.00	174	0.41
Grading	Off-Highway Trucks	2	8.00	400	0.38
Grading	Rubber Tired Dozers	2	8.00	255	0.40
Grading	Scrapers	6	8.00	361	0.48
Grading	Tractors/Loaders/Backhoes	6	8.00	97	0.37
Utilities	Excavators	4	8.00	162	0.38
Utilities	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Utilities	Trenchers	2	8.00	80	0.50
Building Construction	Cranes	2	7.00	226	0.29
Building Construction	Forklifts	6	8.00	89	0.20
Building Construction	Generator Sets	2	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	6	7.00	97	0.37
Building Construction	Welders	2	8.00	46	0.45
Paving	Cement and Mortar Mixers	8	8.00	9	0.56
Paving	Pavers	4	8.00	125	0.42
Paving	Paving Equipment	4	8.00	130	0.36
Paving	Rollers	4	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	2	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
Grading	22	56.00	0.00	210,508.00	10.80	7.30	0.25	LD_Mix	HDT_Mix	HHDT
Utilities	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	18	240.00	80.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	22	56.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	2	48.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area
Reduce Vehicle Speed on Unpaved Roads

3.2 Grading - 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					14.5330	0.0000	14.5330	6.9689	0.0000	6.9689			0.0000			0.0000
Off-Road	13.7564	152.7834	108.9961	0.1857	6.8377	6.8377	6.8377	6.2907	6.2907	6.2907	18,390.74	18,390.74	18,390.74	5.8186		18,512.938
Total	13.7564	152.7834	108.9961	0.1857	14.5330	6.8377	21.3707	6.9689	6.2907	13.2596	18,390.74	18,390.74	18,390.74	5.8186		18,512.938

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	11.5750	35.9026	193.8240	0.0472	0.3892	0.1311	0.5203	0.1096	0.1204	0.2299		14,239.614	14,239.6146	0.0986		14,241.6846
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	0.1508	0.1761	1.8970	5.8300e-003	0.4600	3.2600e-003	0.4633	0.1220	3.0200e-003	0.1250	433.8054	433.8054	433.8054	0.0197		434.2196
Total	11.7257	36.0786	195.7210	0.0530	0.8492	0.1344	0.9836	0.2316	0.1234	0.3550	4,673.419	4,673.4199	4,673.4199	0.1183		4,675.9042

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					5.6679	0.0000	5.6679	2.7179	0.0000	2.7179			0.0000			0.0000
Off-Road	13.7564	152.7834	108.9961	0.1857	6.8377	6.8377	6.8377	6.2907	6.2907	6.2907	0.0000	18,390.74	18,390.747	5.8186		18,512.938
Total	13.7564	152.7834	108.9961	0.1857	5.6679	6.8377	12.5055	2.7179	6.2907	9.0085	0.0000	18,390.74	18,390.747	5.8186		18,512.938

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	11.5750	35.9026	193.8240	0.0472	0.3892	0.1311	0.5203	0.1096	0.1204	0.2299			4,239.614	0.0986		14,241.6846
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	0.1508	0.1761	1.8970	5.8300e-003	0.4600	3.2600e-003	0.4633	0.1220	3.0200e-003	0.1250			433.8054	0.0197		434.2196
Total	11.7257	36.0786	195.7210	0.0530	0.8492	0.1344	0.9636	0.2316	0.1234	0.3550			4,673.419	0.1183		4,675.9042

3.3 Utilities - 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	2.4259	23.7093	23.4022	0.0343	1.4500	1.4500	1.3340	1.3340	1.3340	3,396.1734	3,396.1734	1.0745	1.0745	3,418.7382
Total	2.4259	23.7093	23.4022	0.0343	1.4500	1.4500	1.3340	1.3340	1.3340	3,396.1734	3,396.1734	1.0745	1.0745	3,418.7382

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	0.0538	0.0629	0.6775	2.0800e-003	0.1643	1.1600e-003	0.1655	0.0436	1.0800e-003	0.0447			154.9305	154.9305	7.0400e-003	155.0784
Total	0.0538	0.0629	0.6775	2.0800e-003	0.1643	1.1600e-003	0.1655	0.0436	1.0800e-003	0.0447			154.9305	154.9305	7.0400e-003	155.0784

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	2.4259	23.7093	23.4022	0.0343	1.4500	1.4500	1.4500	1.3340	1.3340	1.3340	0.0000	3,396.1734	3,396.1734	1.0745	1.0745	3,418.7382
Total	2.4259	23.7093	23.4022	0.0343	1.4500	1.4500	1.4500	1.3340	1.3340	1.3340	0.0000	3,396.1734	3,396.1734	1.0745	1.0745	3,418.7382

Category	lb/day											lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.6742	5.5754	7.5634	0.0189	0.5309	0.0859	0.6168	0.1515	0.0790	0.2305	1,812.4757	1,812.4757	0.0133	7	1,812.4756	1,812.7556	1,812.7556
Worker	0.6461	0.7546	8.1298	0.0250	1.9715	0.0140	1.9855	0.5230	0.0130	0.5359	1,859.1657	1,859.1658	0.0845	8	1,860.9412	1,860.9412	1,860.9412
Total	1.3203	6.3299	15.6932	0.0439	2.5024	0.0999	2.6023	0.6744	0.0920	0.7664	3,671.6416	3,671.6416	0.0979	6	3,673.6967	3,673.6967	3,673.6967

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
Off-Road	4.7032	41.9301	34.2407	0.0536	2.5701	2.5701	2.5701	2.4166	2.4166	2.4166	0.0000	5	5,161.5235	1.2558	1.2558	15,187.8958
Total	4.7032	41.9301	34.2407	0.0536	2.5701	2.5701	2.5701	2.4166	2.4166	2.4166	0.0000	5	5,161.5235	1.2558	1.2558	5,187.8958

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
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	0.6742	5.5754	7.5634	0.0189	0.5309	0.0859	0.6168	0.1515	0.0790	0.2305	1,812.4757	1,812.4757	0.0133	7	1,812.7556	1,812.7556
Worker	0.6461	0.7546	8.1298	0.0250	1.9715	0.0140	1.9855	0.5230	0.0130	0.5359	1,859.1657	1,859.1658	0.0845	8	1,860.9412	1,860.9412

Total	1.3203	6.3299	15.6932	0.0439	2.5024	0.0999	2.6023	0.6744	0.0920	0.7664	3,671.641	3,671.6416	0.0979	3,673.6967
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3.5 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	3.7874	37.4908	35.8026	0.0565	2.0461	2.0461	2.0461	1.8917	1.8917	1.8917		5,437.1605	5,437.1605	1.6344		5,471.4819
Paving	0.0000				0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Total	3.7874	37.4908	35.8026	0.0565	2.0461	2.0461	2.0461	1.8917	1.8917	1.8917		5,437.1605	5,437.1605	1.6344		5,471.4819

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	0.1508	0.1761	1.8970	5.8300e-003	0.4600	3.2600e-003	0.4633	0.1220	3.0200e-003	0.1250			433.8054	0.0197		434.2196
Total	0.1508	0.1761	1.8970	5.8300e-003	0.4600	3.2600e-003	0.4633	0.1220	3.0200e-003	0.1250			433.8054	0.0197		434.2196

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	3.7874	37.4908	35.8026	0.0565	2.0461	2.0461	2.0461	1.8917	1.8917	1.8917	0.0000	5,437.1605	5,437.1605	1.6344		5,471.4819
Paving	0.0000				0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Total	3.7874	37.4908	35.8026	0.0565	2.0461	2.0461	2.0461	1.8917	1.8917	1.8917	0.0000	5,437.1605	5,437.1605	1.6344		5,471.4819

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	0.1508	0.1761	1.8970	5.8300e-003	0.4600	3.2600e-003	0.4633	0.1220	3.0200e-003	0.1250			433.8054	0.0197		434.2196
Total	0.1508	0.1761	1.8970	5.8300e-003	0.4600	3.2600e-003	0.4633	0.1220	3.0200e-003	0.1250			433.8054	0.0197		434.2196

3.6 Architectural Coating - 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															

Archit. Coating	48.5762					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000				0.0000	
Off-Road	0.5329	3.6708	3.6827	5.9400e-003		0.2575	0.2575	0.2575	0.2575	0.2575	0.2575	0.2575	562.8961	562.8961	0.0475	0.0475		562.8961				562.8961	563.8945
Total	49.1091	3.6708	3.6827	5.9400e-003		0.2575	0.2575	0.2575	0.2575	0.2575	0.2575	0.2575	562.8961	562.8961	0.0475	0.0475		562.8961				562.8961	563.8945

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
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	0.1292	0.1509	1.6260	4.9900e-003	0.3943	2.7900e-003	0.3971	0.1046	2.5900e-003	0.1072		371.8332	371.8332	0.0169		372.1882
Total	0.1292	0.1509	1.6260	4.9900e-003	0.3943	2.7900e-003	0.3971	0.1046	2.5900e-003	0.1072		371.8332	371.8332	0.0169		372.1882

Mitigated Construction On-Site

Archit. Coating	48.5762					0.0000	0.0000	0.0000	0.0000	0.0000							0.0000					0.0000
Off-Road	0.5329	3.6708	3.6827	5.9400e-003		0.2575	0.2575	0.2575	0.2575	0.2575	0.0000	562.8961	562.8961	0.0475	0.0475		562.8961				562.8961	563.8945
Total	49.1091	3.6708	3.6827	5.9400e-003		0.2575	0.2575	0.2575	0.2575	0.2575	0.0000	562.8961	562.8961	0.0475	0.0475		562.8961				562.8961	563.8945

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	0.1292	0.1509	1.6260	4.9900e-003	0.3943	2.7900e-003	0.3971	0.1046	2.5900e-003	0.1072	371.8332	371.8332	371.8332	0.0169		372.1882
Total	0.1292	0.1509	1.6260	4.9900e-003	0.3943	2.7900e-003	0.3971	0.1046	2.5900e-003	0.1072	371.8332	371.8332	371.8332	0.0169		372.1882

Otay Ranch Resort Village Year 6 Construction San Diego Air Basin, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Elementary School	794.00	Student	10.00	60,000.00	0
City Park	10.30	Acre	10.30	448,668.00	0
Single Family Housing	210.00	Dwelling Unit	58.70	378,000.00	601

1.2 Other Project Characteristics

Urbanization Urban Wind Speed (m/s) 2.6 Precipitation Freq (Days) 40
 Climate Zone 13 Operational Year 2021

Utility Company

CO2 Intensity (lb/MMWhr) 0 CH4 Intensity (lb/MMWhr) 0 N2O Intensity (lb/MMWhr) 0

1.3 User Entered Comments & Non-Default Data

Table Name	Column Name	Default Value	New Value
tb\ArchitecturalCoating	EF_Nonresidential_Exterior	250.00	150.00
tb\ArchitecturalCoating	EF_Nonresidential_Interior	250.00	100.00
tb\ArchitecturalCoating	EF_Residential_Exterior	250.00	150.00
tb\ArchitecturalCoating	EF_Residential_Interior	250.00	100.00
tb\AreaCoating	Area_Nonresidential_Interior	763002	0
tb\AreaCoating	Area_Residential_Exterior	255150	0
tb\AreaCoating	Area_Residential_Interior	765450	0
tb\AreaMitigation	UseLowVOCPaintNonresidentialExterior	250	0

tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorVal	250		0
tblAreaMitigation	UseLowVOCPaintResidentialExteriorVal	250		0
tblAreaMitigation	UseLowVOCPaintResidentialInteriorVal	250		0
tblConstructionPhase	NumDays	110.00		132.00
tblConstructionPhase	NumDays	1,550.00		219.00
tblConstructionPhase	NumDays	155.00		130.00
tblConstructionPhase	NumDays	110.00		132.00
tblConstructionPhase	PhaseEndDate	7/5/2021		12/31/2020
tblConstructionPhase	PhaseEndDate	6/3/2021		12/31/2020
tblConstructionPhase	PhaseEndDate	7/5/2021		12/31/2020
tblConstructionPhase	PhaseEndDate	12/29/2020		7/31/2020
tblConstructionPhase	PhaseStartDate	1/1/2021		7/1/2020
tblConstructionPhase	PhaseStartDate	8/1/2020		3/1/2020
tblConstructionPhase	PhaseStartDate	1/1/2021		7/1/2020
tblConstructionPhase	PhaseStartDate	7/1/2020		2/1/2020
tblGrading	AcresOfGrading	910.00		102.80
tblGrading	MaterialExported	0.00		1,087,447.00
tblGrading	MaterialImported	0.00		1,087,447.00
tblLandUse	LandUseSquareFeet	66,381.08		60,000.00
tblLandUse	LotAcreage	1.52		10.00
tblLandUse	LotAcreage	68.18		58.70
tblOffRoadEquipment	HorsePower	400.00		189.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00		2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00		2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00		4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00		6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00		2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00		2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00		4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00		4.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblProjectCharacteristics	OperationalYear	2014	2021
tblTripsAndVMT	HaulingTripLength	20.00	0.25
tblTripsAndVMT	VendorTripNumber	106.00	212.00
tblTripsAndVMT	WorkerTripNumber	55.00	56.00
tblTripsAndVMT	WorkerTripNumber	289.00	578.00
tblTripsAndVMT	WorkerTripNumber	55.00	56.00
tblTripsAndVMT	WorkerTripNumber	58.00	116.00

2.0 Emissions Summary

2.1 Overall Construction Unmitigated Construction

Year	tons/yr											MIT/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
2020	8.4298	21.2541	40.0791	0.0406	1.8112	0.8917	2.7028	0.6811	0.8271	1.5082	0.0000	3,312.904	3,312.9045	0.6398	0.0000	3,326.3407
Total	8.4298	21.2541	40.0791	0.0406	1.8112	0.8917	2.7028	0.6811	0.8271	1.5082	0.0000	3,312.904	3,312.9045	0.6398	0.0000	3,326.3407

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
tons/yr																
MIT/yr																
2020	8.4298	21.2541	40.0791	0.0406	1.2071	0.8917	2.0988	0.4009	0.8271	1.2280	0.0000	3,312.902	3,312.9021	0.6398	0.0000	3,326.3383
Total	8.4298	21.2541	40.0791	0.0406	1.2071	0.8917	2.0988	0.4009	0.8271	1.2280	0.0000	3,312.902	3,312.9021	0.6398	0.0000	3,326.3383

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	33.35	0.00	22.35	41.14	0.00	18.58	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading	Grading	1/1/2020	6/30/2020	5	130	
2	Utilities	Trenching	12/1/2020	7/31/2020	5	130	
3	Building Construction	Building Construction	13/1/2020	12/31/2020	5	219	
4	Paving	Paving	7/1/2020	12/31/2020	5	132	
5	Architectural Coating	Architectural Coating	7/1/2020	12/31/2020	5	132	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 102.8

Acres of Paving: 0

Residential Indoor: 765,450; Residential Outdoor: 255,150; Non-Residential Indoor: 763,002; Non-Residential Outdoor: 254,334

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Excavators	4	8.00	162	0.38
Grading	Graders	2	8.00	174	0.41
Grading	Off-Highway Trucks	2	8.00	189	0.38
Grading	Rubber Tired Dozers	2	8.00	255	0.40
Grading	Scrapers	6	8.00	361	0.48
Grading	Tractors/Loaders/Backhoes	6	8.00	97	0.37
Utilities	Excavators	4	8.00	162	0.38
Utilities	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Utilities	Trenchers	2	8.00	80	0.50
Building Construction	Cranes	2	7.00	226	0.29
Building Construction	Forklifts	6	8.00	89	0.20
Building Construction	Generator Sets	2	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	6	7.00	97	0.37
Building Construction	Welders	2	8.00	46	0.45
Paving	Cement and Mortar Mixers	8	8.00	9	0.56
Paving	Pavers	4	8.00	125	0.42
Paving	Paving Equipment	4	8.00	130	0.36
Paving	Rollers	4	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	2	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
Grading	22	56.00	0.00	271,863.00	10.80	7.30	0.25	LD_Mix	HDT_Mix	HHDT
Utilities	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	18	578.00	212.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	22	56.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

Architectural Coating	2	116.00	0.001	0.001	10.801	7.301	20.001	iHDT_Mix	iHHD1
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3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Grading - 2020

Unmitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Biogenic CO2	NBiogenic CO2	Total CO2	CH4	N2O	CO2e
tons/yr																
MIT/yr																
Fugitive Dust					0.9902	0.0000	0.9902	0.4594	0.0000	0.4594	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.7910	8.6092	6.4745	0.0112	0.3861	0.3861	0.3861	0.3552	0.3552	0.3552	0.0000	980.8648	980.8648	0.3172	0.0000	987.5266
Total	0.7910	8.6092	6.4745	0.0112	0.9902	0.3861	1.3763	0.4594	0.3552	0.8145	0.0000	980.8648	980.8648	0.3172	0.0000	987.5266

Unmitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Biogenic CO2	NBiogenic CO2	Total CO2	CH4	N2O	CO2e
tons/yr																
MIT/yr																
Hauling	1.0509	2.8516	20.7501	3.9000e-003	0.0318	0.0111	0.0429	8.9800e-003	0.0102	0.0192	0.0000	304.6027	304.6027	8.0700e-003	0.0000	304.7722
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	9.0200e-003	0.0118	0.1102	3.6000e-004	0.0292	2.1000e-004	0.0294	7.7600e-003	2.0000e-004	7.9500e-003	0.0000	23.2810	23.2810	1.1100e-003	0.0000	23.3042
Total	1.0599	2.8634	20.8603	4.2600e-003	0.0610	0.0113	0.0723	0.0167	0.0104	0.0271	0.0000	327.8837	327.8837	9.1800e-003	0.0000	328.0765

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
	tons/yr										MT/yr					
Fugitive Dust					0.3862	0.0000	0.3862	0.1792	0.0000	0.1792	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.7910	8.6092	6.4745	0.0112		0.3861	0.3861		0.3552	0.3552	0.0000	980.8636	980.8636	0.3172	0.0000	987.5255
Total	0.7910	8.6092	6.4745	0.0112	0.3862	0.3861	0.7722	0.1792	0.3552	0.5343	0.0000	980.8636	980.8636	0.3172	0.0000	987.5255

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
	tons/yr										MT/yr					
Hauling	1.0509	2.8516	20.7501	3.9000e-003	0.0318	0.0111	0.0429	8.9800e-003	0.0102	0.0192	0.0000	304.6027	304.6027	8.0700e-003	0.0000	304.7722
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	9.0200e-003	0.0118	0.1102	3.6000e-004	0.0292	2.1000e-004	0.0294	7.7600e-003	2.0000e-004	7.9500e-003	0.0000	23.2810	23.2810	1.1100e-003	0.0000	23.3042
Total	1.0599	2.8634	20.8603	4.2600e-003	0.0610	0.0113	0.0723	0.0167	0.0104	0.0271	0.0000	327.8837	327.8837	9.1800e-003	0.0000	328.0765

3.3 Utilities - 2020

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															
	MT/yr															
Off-Road	0.1485	1.4230	1.5190	2.2300e-003	0.0864	0.0864	0.0864	0.0795	0.0795	0.0795	0.0000	195.9497	195.9497	0.0634	0.0000	197.2805
Total	0.1485	1.4230	1.5190	2.2300e-003	0.0864	0.0864	0.0864	0.0795	0.0795	0.0795	0.0000	195.9497	195.9497	0.0634	0.0000	197.2805

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															
	MT/yr															
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.2200e-003	4.2200e-003	0.0394	1.3000e-004	0.0104	8.0000e-005	0.0105	2.7700e-003	7.0000e-005	2.8400e-003	0.0000	8.3147	8.3147	4.0000e-004	0.0000	8.3229
Total	3.2200e-003	4.2200e-003	0.0394	1.3000e-004	0.0104	8.0000e-005	0.0105	2.7700e-003	7.0000e-005	2.8400e-003	0.0000	8.3147	8.3147	4.0000e-004	0.0000	8.3229

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
	tons/yr															
	MT/yr															
Off-Road	0.1485	1.4230	1.5190	2.2300e-003	0.0864	0.0864	0.0864	0.0795	0.0795	0.0795	0.0000	195.9495	195.9495	0.0634	0.0000	197.2803

Total	0.1485	1.4230	1.5190	2.2300e-003	0.0864	0.0864	0.0795	0.0795	0.0000	195.9495	195.9495	0.0634	0.0000	197.2803
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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	3.2200e-003	4.2200e-003	0.0394	1.3000e-004	0.0104	8.0000e-005	0.0105	2.7700e-003	7.0000e-005	2.8400e-003	0.0000	8.3147	8.3147	4.0000e-004	0.0000	8.3229
Total	3.2200e-003	4.2200e-003	0.0394	1.3000e-004	0.0104	8.0000e-005	0.0105	2.7700e-003	7.0000e-005	2.8400e-003	0.0000	8.3147	8.3147	4.0000e-004	0.0000	8.3229

3.4 Building Construction - 2020
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	0.4624	4.1794	3.6811	5.8700e-003	0.2437	0.2437	0.2437	0.2292	0.2292	0.2292	0.0000	505.1233	505.1233	0.1231	0.0000	507.7076
Total	0.4624	4.1794	3.6811	5.8700e-003	0.2437	0.2437	0.2437	0.2292	0.2292	0.2292	0.0000	505.1233	505.1233	0.1231	0.0000	507.7076

Unmitigated Construction Off-Site

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	0.0000	0.0000	0.0000	
Vendor	0.2003	1.4186	2.6453	5.4800e-003	0.1510	0.0224	0.1734	0.0432	0.0206	0.0638	0.0000	464.6969	464.6969	3.4400e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	464.7691
Worker	0.1568	0.2053	1.9159	6.2400e-003	0.5075	3.6900e-003	0.5112	0.1349	3.4200e-003	0.1383	0.0000	404.8018	404.8018	0.0192	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	405.2057
Total	0.3571	1.6239	4.5612	0.0117	0.6585	0.0261	0.6846	0.1781	0.0241	0.2021	0.0000	869.4987	869.4987	0.0227	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	869.9748

3.5 Paving - 2020 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															
Off-Road	0.2343	2.2918	2.3583	3.7300e-003	0.1227	0.1227	0.1227	0.1135	0.1135	0.1135	0.0000	318.9607	318.9607	0.0978	0.0000	321.0155
Paving	0.0000				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	0.2343	2.2918	2.3583	3.7300e-003	0.1227	0.1227	0.1227	0.1135	0.1135	0.1135	0.0000	318.9607	318.9607	0.0978	0.0000	321.0155

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	0.0000	0.0000	0.0000	0.0000	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	9.1600e-003	0.0120	0.1119	3.6000e-004	0.0296	2.2000e-004	0.0299	7.8800e-003	2.0000e-004	8.0800e-003	0.0000	23.6392	23.6392	1.1200e-003	0.0000	23.6628
Total	9.1600e-003	0.0120	0.1119	3.6000e-004	0.0296	2.2000e-004	0.0299	7.8800e-003	2.0000e-004	8.0800e-003	0.0000	23.6392	23.6392	1.1200e-003	0.0000	23.6628

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
	tons/yr										MT/yr					
Off-Road	0.2342	2.2918	2.3583	3.7300e-003	0.1227	0.1227	0.1227	0.1135	0.1135	0.1135	0.0000	318.9603	318.9603	0.0978	0.0000	321.0151
Paving	0.0000				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	0.2342	2.2918	2.3583	3.7300e-003	0.1227	0.1227	0.1227	0.1135	0.1135	0.1135	0.0000	318.9603	318.9603	0.0978	0.0000	321.0151

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
	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.1600e-003	0.0120	0.1119	3.6000e-004	0.0296	2.2000e-004	0.0299	7.8800e-003	2.0000e-004	8.0800e-003	0.0000	23.6392	23.6392	1.1200e-003	0.0000	23.6628
Total	9.1600e-003	0.0120	0.1119	3.6000e-004	0.0296	2.2000e-004	0.0299	7.8800e-003	2.0000e-004	8.0800e-003	0.0000	23.6392	23.6392	1.1200e-003	0.0000	23.6628

3.6 Architectural Coating - 2020

Unmitigated Construction On-Site

Off-Road	0.0320	0.2223	0.2418	3.9000e-004	0.0146	0.0146	0.0146	0.0000	33.7029	33.7029	2.6100e-003	0.0000	33.7577
Total	5.3453	0.2223	0.2418	3.9000e-004	0.0146	0.0146	0.0146	0.0000	33.7029	33.7029	2.6100e-003	0.0000	33.7577

Mitigated Construction Off-Site

Category	tons/yr														
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Biogenic 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
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
Worker	0.0190	0.0248	0.2318	7.6000e-004	0.0614	4.5000e-004	0.0618	0.0163	4.1000e-004	0.0167	0.0000	48.9669	2.3300e-003	0.0000	49.0157
Total	0.0190	0.0248	0.2318	7.6000e-004	0.0614	4.5000e-004	0.0618	0.0163	4.1000e-004	0.0167	0.0000	48.9669	2.3300e-003	0.0000	49.0157

Otay Ranch Resort Village Year 6 Construction San Diego Air Basin, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Elementary School	794.00	Student	10.00	60,000.00	0
City Park	10.30	Acre	10.30	448,668.00	0
Single Family Housing	210.00	Dwelling Unit	58.70	378,000.00	601

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2021

Utility Company

CO2 Intensity (lb/MW/hr)	0	CH4 Intensity (lb/MW/hr)	0	N2O Intensity (lb/MW/hr)	0
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1.3 User Entered Comments & Non-Default Data

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	150.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	100.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	150.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	100.00
tblAreaCoating	Area_Nonresidential_Interior	763002	0
tblAreaCoating	Area_Residential_Exterior	255150	0
tblAreaCoating	Area_Residential_Interior	765450	0
tblAreaMitigation	UseLowVOCPaintNonresidentialExterior	250	0

tblAreaMitigation	UseLowVOCPaintNonresidentialInterior	250	0
tblAreaMitigation	UseLowVOCPaintResidentialExteriorVal	250	0
tblAreaMitigation	UseLowVOCPaintResidentialInteriorVal	250	0
tblConstructionPhase	NumDays	110.00	132.00
tblConstructionPhase	NumDays	1,550.00	219.00
tblConstructionPhase	NumDays	155.00	130.00
tblConstructionPhase	NumDays	110.00	132.00
tblConstructionPhase	PhaseEndDate	7/5/2021	12/31/2020
tblConstructionPhase	PhaseEndDate	6/3/2021	12/31/2020
tblConstructionPhase	PhaseEndDate	7/5/2021	12/31/2020
tblConstructionPhase	PhaseEndDate	12/29/2020	7/31/2020
tblConstructionPhase	PhaseStartDate	1/1/2021	7/1/2020
tblConstructionPhase	PhaseStartDate	8/1/2020	3/1/2020
tblConstructionPhase	PhaseStartDate	1/1/2021	7/1/2020
tblConstructionPhase	PhaseStartDate	7/1/2020	2/1/2020
tblGrading	AcresOfGrading	910.00	102.80
tblGrading	MaterialExported	0.00	1,087,447.00
tblGrading	MaterialImported	0.00	1,087,447.00
tblLandUse	LandUseSquareFeet	66,381.08	60,000.00
tblLandUse	LotAcreage	1.52	10.00
tblLandUse	LotAcreage	68.18	58.70
tblOffRoadEquipment	HorsePower	400.00	189.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblProjectCharacteristics	OperationalYear	2014	2021
tblTripsAndVMT	HaulingTripLength	20.00	0.25
tblTripsAndVMT	VendorTripNumber	106.00	212.00
tblTripsAndVMT	WorkerTripNumber	55.00	56.00
tblTripsAndVMT	WorkerTripNumber	289.00	578.00
tblTripsAndVMT	WorkerTripNumber	55.00	56.00
tblTripsAndVMT	WorkerTripNumber	58.00	116.00

2.0 Emissions Summary

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
2020	94.6973	250.3112	439.8937	0.4381	22.5117	9.8997	32.4113	9.0337	9.1531	18.1868	0.0000	39,908.03	39,908.031	8.0766	0.0000	40,077.640
Total	94.6973	250.3112	439.8937	0.4381	22.5117	9.8997	32.4113	9.0337	9.1531	18.1868	0.0000	39,908.03	39,908.031	8.0766	0.0000	40,077.640

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
2020	94.6973	250.3112	439.8937	0.4381	13.2191	9.8997	23.1188	4.7229	9.1531	13.8759	0.0000	39,908.03	39,908.031	8.0766	0.0000	40,077.640
Total	94.6973	250.3112	439.8937	0.4381	13.2191	9.8997	23.1188	4.7229	9.1531	13.8759	0.0000	39,908.03	39,908.031	8.0766	0.0000	40,077.640

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	41.28	0.00	28.67	47.72	0.00	23.70	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading	Grading	1/1/2020	6/30/2020	5	130	
2	Utilities	Trenching	12/1/2020	7/31/2020	5	130	
3	Building Construction	Building Construction	13/1/2020	12/31/2020	5	219	
4	Paving	Paving	7/1/2020	12/31/2020	5	132	
5	Architectural Coating	Architectural Coating	7/1/2020	12/31/2020	5	132	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 102.8

Acres of Paving: 0

Residential Indoor: 765,450; Residential Outdoor: 255,150; Non-Residential Indoor: 763,002; Non-Residential Outdoor: 254,334

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Excavators	4	8.00	162	0.38
Grading	Graders	2	8.00	174	0.41
Grading	Off-Highway Trucks	2	8.00	189	0.38
Grading	Rubber Tired Dozers	2	8.00	255	0.40
Grading	Scrapers	6	8.00	361	0.48
Grading	Tractors/Loaders/Backhoes	6	8.00	97	0.37
Utilities	Excavators	4	8.00	162	0.38
Utilities	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Utilities	Trenchers	2	8.00	80	0.50
Building Construction	Cranes	2	7.00	226	0.29
Building Construction	Forklifts	6	8.00	89	0.20
Building Construction	Generator Sets	2	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	6	7.00	97	0.37
Building Construction	Welders	2	8.00	46	0.45
Paving	Cement and Mortar Mixers	8	8.00	9	0.56
Paving	Pavers	4	8.00	125	0.42
Paving	Paving Equipment	4	8.00	130	0.36
Paving	Rollers	4	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	2	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
Grading	22	56.00	0.00	271,863.00	10.80	7.30	0.25	LD_Mix	HDT_Mix	HHDT
Utilities	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	18	578.00	212.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	22	56.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

Architectural Coating	2	116.00	0.00	0.00	10.80	7.30	20.00	iHDT_Mix	iHHD
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3.1 Mitigation Measures Construction

Water Exposed Area
Reduce Vehicle Speed on Unpaved Roads

3.2 Grading - 2020

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					15.2337	0.0000	15.2337	7.0670	0.0000	7.0670			0.0000			0.0000
Off-Road	12.1687	132.4499	99.6082	0.1717	5.9393	5.9393	5.9393	5.4642	5.4642	5.4642		16.634.12	16.634.128	5.3798		16,747.104
												82	2			3
Total	12.1687	132.4499	99.6082	0.1717	15.2337	5.9393	21.1730	7.0670	5.4642	12.5312		16.634.12	16.634.128	5.3798		16,747.104
												82	2			3

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	14.1558	43.2909	243.2418	0.0603	0.4987	0.1638	0.6626	0.1404	0.1505	0.2909		5,310.361	5,310.3617	0.1300		5,313.0911
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	0.1427	0.1646	1.7758	5.8300e-003	0.4600	3.2600e-003	0.4633	0.1220	3.0300e-003	0.1251		416.3410	416.3410	0.0188		416.7349
Total	14.2985	43.4554	245.0176	0.0661	0.9588	0.1671	1.1259	0.2624	0.1535	0.4160		5,726.702	5,726.7027	0.1487		5,729.8260
												7				

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					5.9411	0.0000	5.9411	2.7561	0.0000	2.7561			0.0000			0.0000
Off-Road	12.1687	132.4499	99.6082	0.1717	5.9393	5.9393	5.9393	5.4642	5.4642	5.4642	0.0000	16,634.128	16,634.128	5.3798		16,747.104
Total	12.1687	132.4499	99.6082	0.1717	5.9411	5.9393	11.8805	2.7561	5.4642	8.2203	0.0000	16,634.128	16,634.128	5.3798		16,747.104

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	14.1558	43.2909	243.2418	0.0603	0.4987	0.1638	0.6626	0.1404	0.1505	0.2909		5,310.3617	5,310.3617	0.1300		5,313.0911
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	0.1427	0.1646	1.7758	5.8300e-003	0.4600	3.2600e-003	0.4633	0.1220	3.0300e-003	0.1251		416.3410	416.3410	0.0188		416.7349
Total	14.2985	43.4554	245.0176	0.0661	0.9588	0.1671	1.1259	0.2624	0.1535	0.4160		5,726.7027	5,726.7027	0.1487		5,729.8260

3.3 Utilities - 2020
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	2.2848	21.8930	23.3694	0.0343	1.3286	1.3286	1.3286	1.2223	1.2223	1.2223		3,323.0394	3,323.0394	1.0747		3,345.6089
"	"	"	"	"	"	"	"	"	"	"	"	4	"	"	"	"
Total	2.2848	21.8930	23.3694	0.0343	1.3286	1.3286	1.3286	1.2223	1.2223	1.2223	4	3,323.0394	3,323.0394	1.0747		3,345.6089

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	0.0000	0.0000	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	0.0510	0.0588	0.6342	2.0800e-003	0.1643	1.1700e-003	0.1655	0.0436	1.0800e-003	0.0447		148.6932	148.6932	6.7000e-003		148.8339
"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"
Total	0.0510	0.0588	0.6342	2.0800e-003	0.1643	1.1700e-003	0.1655	0.0436	1.0800e-003	0.0447	148.6932	148.6932	148.6932	6.7000e-003		148.8339

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	2.2848	21.8930	23.3694	0.0343	1.3286	1.3286	1.3286	1.2223	1.2223	1.2223		3,323.0394	3,323.0394	1.0747		3,345.6089
"	"	"	"	"	"	"	"	"	"	"	"	4	"	"	"	"

Total	2.2848	21.8930	23.3694	0.0343	1.3286	1.3286	1.2223	1.2223	0.0000	3,323.0394	3,323.0394	1.0747	3,345.6089
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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
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
Worker	0.0510	0.0588	0.6342	2.0800e-003	0.1643	1.1700e-003	0.1655	0.0436	1.0800e-003	0.0447	148.6932	148.6932	6.7000e-003	0.0000		148.8339
Total	0.0510	0.0588	0.6342	2.0800e-003	0.1643	1.1700e-003	0.1655	0.0436	1.0800e-003	0.0447	148.6932	148.6932	6.7000e-003	0.0000		148.8339

3.4 Building Construction - 2020

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	4.2225	38.1679	33.6169	0.0536	2.2257	2.2257	2.2257	2.0929	2.0929	2.0929	5,084.9598	5,084.9598	1.2389	1.2389		5,110.9761
Total	4.2225	38.1679	33.6169	0.0536	2.2257	2.2257	2.2257	2.0929	2.0929	2.0929	5,084.9598	5,084.9598	1.2389	1.2389		5,110.9761

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
Vendor	1.6906	12.5879	19.3186	0.0501	1.4068	0.2041	1.6109	0.4013	0.1878	0.5891	4,693.274	4,693.2743	4,693.2743	0.0342		4,693.9915
Worker	1.4725	1.6984	18.3289	0.0601	4.7481	0.0337	4.7818	1.2594	0.0312	1.2907	4,297.233	4,297.2339	4,297.2339	0.1936		4,301.2997
Total	3.1631	14.2863	37.6475	0.1103	6.1549	0.2378	6.3927	1.6607	0.2190	1.8797	8,990.508	8,990.5082	8,990.5082	0.2278		8,995.2912

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	4.2225	38.1679	33.6169	0.0536	2.2257	2.2257	2.2257	2.0929	2.0929	2.0929	0.0000	5,084.959	5,084.9598	1.2389		5,110.9761
Total	4.2225	38.1679	33.6169	0.0536	2.2257	2.2257	2.2257	2.0929	2.0929	2.0929	0.0000	5,084.959	5,084.9598	1.2389		5,110.9761

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																

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	3.5492	34.7248	35.7317	0.0565	1.8588	1.8588	1.8588	1.7193	1.7193	1.7193	0.0000	5,327.1818	5,327.1818	1.6342		5,361.4993
Paving	0.0000				0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Total	3.5492	34.7248	35.7317	0.0565	1.8588	1.8588	1.8588	1.7193	1.7193	1.7193	0.0000	5,327.1818	5,327.1818	1.6342		5,361.4993

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	0.1427	0.1646	1.7758	5.8300e-003	0.4600	3.2600e-003	0.4633	0.1220	3.0300e-003	0.1251			416.3410	0.0188		416.7349
Total	0.1427	0.1646	1.7758	5.8300e-003	0.4600	3.2600e-003	0.4633	0.1220	3.0300e-003	0.1251			416.3410	0.0188		416.7349

3.6 Architectural Coating - 2020

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																
Archit. Coating	80.5043				0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.4844	3.3677	3.6628	5.9400e-003	0.2219	0.2219	0.2219	0.2219	0.2219	0.2219	562.8961	562.8961	562.8961	0.0436		563.8113
Total	80.9886	3.3677	3.6628	5.9400e-003	0.2219	0.2219	0.2219	0.2219	0.2219	0.2219	562.8961	562.8961	562.8961	0.0436		563.8113

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	0.2955	0.3409	3.6785	0.0121	0.9529	6.7600e-003	0.9597	0.2528	6.2700e-003	0.2590	862.4206	862.4206	862.4206	0.0389		863.2366
Total	0.2955	0.3409	3.6785	0.0121	0.9529	6.7600e-003	0.9597	0.2528	6.2700e-003	0.2590	862.4206	862.4206	862.4206	0.0389		863.2366

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	80.5043				0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000

Off-Road	0.4844	3.3677	3.6628	5.9400e-003	0.2219	0.2219	0.2219	0.0000	562.8961	562.8961	0.0436	563.8113
Total	80.9886	3.3677	3.6628	5.9400e-003	0.2219	0.2219	0.2219	0.0000	562.8961	562.8961	0.0436	563.8113

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
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
Worker	0.2955	0.3409	3.6785	0.0121	0.9529	6.7600e-003	0.9597	0.2528	6.2700e-003	0.2590		862.4206	862.4206	0.0389		863.2366
Total	0.2955	0.3409	3.6785	0.0121	0.9529	6.7600e-003	0.9597	0.2528	6.2700e-003	0.2590		862.4206	862.4206	0.0389		863.2366

Otay Ranch Resort Village Year 7 Construction San Diego Air Basin, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
City Park	2.90	Acre	2.90	126,324.00	0
Single Family Housing	210.00	Dwelling Unit	58.70	378,000.00	601

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2022

Utility Company

CO2 Intensity (lb/MW/hr)	0	CH4 Intensity (lb/MW/hr)	0	N2O Intensity (lb/MW/hr)	0
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1.3 User Entered Comments & Non-Default Data

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	150.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	100.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	150.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	100.00
tblAreaCoating	Area_Nonresidential_Interior	189486	0
tblAreaCoating	Area_Residential_Exterior	255150	0
tblAreaCoating	Area_Residential_Interior	765450	0
tblAreaMitigation	UseLowVOCPaintNonresidentialExterior	250	0
tblAreaMitigation	UseLowVOCPaintNonresidentialInterior	250	0

tblAreaMitigation	UseLowVOCPaintResidentialExteriorVal	250			0
tblAreaMitigation	UseLowVOCPaintResidentialInteriorVal	250			0
tblConstructionPhase	NumDays	75.00			132.00
tblConstructionPhase	NumDays	1,110.00			220.00
tblConstructionPhase	NumDays	110.00			129.00
tblConstructionPhase	NumDays	75.00			132.00
tblConstructionPhase	PhaseEndDate	7/5/2022			12/31/2021
tblConstructionPhase	PhaseEndDate	6/3/2022			12/31/2021
tblConstructionPhase	PhaseEndDate	7/5/2022			12/31/2021
tblConstructionPhase	PhaseEndDate	12/29/2021			7/31/2021
tblConstructionPhase	PhaseStartDate	1/1/2022			7/1/2021
tblConstructionPhase	PhaseStartDate	8/1/2021			3/1/2021
tblConstructionPhase	PhaseStartDate	1/1/2022			7/1/2021
tblConstructionPhase	PhaseStartDate	7/1/2021			2/1/2021
tblGrading	AcresOfGrading	903.00			80.20
tblGrading	MaterialExported	0.00			848,378.00
tblGrading	MaterialImported	0.00			848,378.00
tblLandUse	LotAcreage	68.18			58.70
tblOffRoadEquipment	HorsePower	400.00			189.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00			2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00			2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00			4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00			6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00			2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00			2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00			4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00			4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00			4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00			2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00			6.00

Year	tons/yr										MT/yr				
2021	5.7714	17.7680	31.7401	0.0326	0.7765	0.7685	1.5450	0.2861	0.7129	0.9990	2,710.151	2,710.1516	0.6204	0.0000	2,723.1807
Total	5.7714	17.7680	31.7401	0.0326	0.7765	0.7685	1.5450	0.2861	0.7129	0.9990	2,710.151	2,710.1516	0.6204	0.0000	2,723.1807

ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBic-CO2	Total CO2	CH4	N2O	CO2e
0.00	0.00	0.00	0.00	42.44	0.00	27.04	48.95	0.00	21.54	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading	Grading	11/1/2021	6/30/2021	5	129	
2	Utilities	Trenching	12/1/2021	7/31/2021	5	130	
3	Building Construction	Building Construction	3/1/2021	12/31/2021	5	220	
4	Paving	Paving	7/1/2021	12/31/2021	5	132	
5	Architectural Coating	Architectural Coating	7/1/2021	12/31/2021	5	132	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 80.2

Acres of Paving: 0

Residential Indoor: 765,450; Residential Outdoor: 255,150; Non-Residential Indoor: 189,486; Non-Residential Outdoor: 63,162

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Excavators	4	8.00	162	0.38

Grading	Graders	2	8.00	174	0.41
Grading	Off-Highway Trucks	2	8.00	189	0.38
Grading	Rubber Tired Dozers	2	8.00	255	0.40
Grading	Scrapers	6	8.00	361	0.48
Grading	Tractors/Loaders/Backhoes	6	8.00	97	0.37
Utilities	Excavators	4	8.00	162	0.38
Utilities	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Utilities	Trenchers	2	8.00	80	0.50
Building Construction	Cranes	2	7.00	226	0.29
Building Construction	Forklifts	6	8.00	89	0.20
Building Construction	Generator Sets	2	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	6	7.00	97	0.37
Building Construction	Welders	2	8.00	46	0.45
Paving	Cement and Mortar Mixers	8	8.00	9	0.56
Paving	Pavers	4	8.00	125	0.42
Paving	Paving Equipment	4	8.00	130	0.36
Paving	Rollers	4	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	2	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
Grading	22	56.00	0.00	212,095.00	10.80	7.30	0.25	LD_Mix	HDT_Mix	HHDT
Utilities	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	18	258.00	86.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	22	56.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	2	52.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area
 Reduce Vehicle Speed on Unpaved Roads

3.2 Grading - 2021

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															
	MT/yr															
Fugitive Dust					0.9386	0.0000	0.9386	0.4497	0.0000	0.4497	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.7239	7.6868	6.1425	0.0111	0.3405	0.3405	0.3405	0.3132	0.3132	0.3132	0.0000	973.6067	973.6067	0.3149	0.0000	980.2193
Total	0.7239	7.6868	6.1425	0.0111	0.9386	0.3405	1.2791	0.4497	0.3132	0.7629	0.0000	973.6067	973.6067	0.3149	0.0000	980.2193

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															
	MT/yr															
Hauling	0.7557	2.0631	15.6553	3.0200e-003	0.0248	8.4100e-003	0.0332	7.0000e-003	7.7400e-003	0.0147	0.0000	237.1656	237.1656	6.5400e-003	0.0000	237.3030
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	8.5200e-003	0.0110	0.1037	3.6000e-004	0.0290	2.1000e-004	0.0292	7.7000e-003	2.0000e-004	7.9000e-003	0.0000	22.7165	22.7165	1.0600e-003	0.0000	22.7387
Total	0.7642	2.0741	15.7589	3.3800e-003	0.0538	8.6200e-003	0.0624	0.0147	7.9400e-003	0.0226	0.0000	259.8821	259.8821	7.6000e-003	0.0000	260.0417

Mitigated Construction On-Site

Off-Road	0.1364	1.2888	1.5136	2.2300e-003	0.0764	0.0764	0.0703	0.0703	0.0000	195.9964	195.9964	0.0634	0.0000	197.3275
Total	0.1364	1.2888	1.5136	2.2300e-003	0.0764	0.0764	0.0703	0.0703	0.0000	195.9964	195.9964	0.0634	0.0000	197.3275

Unmitigated Construction Off-Site

Category	tons/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	3.0700e-003	3.9600e-003	0.0373	1.3000e-004	0.0104	8.0000e-005	0.0105	2.7700e-003	7.0000e-005	2.8400e-003	0.0000	8.1759	8.1759	3.8000e-004	0.0000	8.1839
Total	3.0700e-003	3.9600e-003	0.0373	1.3000e-004	0.0104	8.0000e-005	0.0105	2.7700e-003	7.0000e-005	2.8400e-003	0.0000	8.1759	8.1759	3.8000e-004	0.0000	8.1839

Mitigated Construction On-Site

Category	tons/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	0.1364	1.2888	1.5135	2.2300e-003	0.0764	0.0764	0.0764	0.0703	0.0703	0.0703	0.0000	195.9961	195.9961	0.0634	0.0000	197.3273
Total	0.1364	1.2888	1.5135	2.2300e-003	0.0764	0.0764	0.0764	0.0703	0.0703	0.0703	0.0000	195.9961	195.9961	0.0634	0.0000	197.3273

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	0.0768	0.4740	1.0349	2.2300e-003	0.0615	8.2300e-003	0.0698	0.0176	7.5700e-003	0.0252	0.0000	189.0677	189.0677	1.4000e-003	0.0000	189.0970
Worker	0.0670	0.0864	0.8145	2.8000e-003	0.2276	1.6800e-003	0.2293	0.0605	1.5600e-003	0.0620	0.0000	178.4869	178.4869	8.3000e-003	0.0000	178.6612
Total	0.1438	0.5605	1.8494	5.0300e-003	0.2891	9.9100e-003	0.2990	0.0781	9.1300e-003	0.0872	0.0000	367.5546	367.5546	9.7000e-003	0.0000	367.7582

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	0.4165	3.8149	3.6383	5.9000e-003	0.2101	0.2101	0.2101	0.1975	0.1975	0.1975	0.0000	507.4894	507.4894	0.1223	0.0000	510.0569
Total	0.4165	3.8149	3.6383	5.9000e-003	0.2101	0.2101	0.2101	0.1975	0.1975	0.1975	0.0000	507.4894	507.4894	0.1223	0.0000	510.0569

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	0.0768	0.4740	1.0349	2.2300e-003	0.0615	8.2300e-003	0.0698	0.0176	7.5700e-003	0.0252	0.0000	189.0677	189.0677	1.4000e-003	0.0000	189.0970
Worker	0.0670	0.0864	0.8145	2.8000e-003	0.2276	1.6800e-003	0.2293	0.0605	1.5600e-003	0.0620	0.0000	178.4869	178.4869	8.3000e-003	0.0000	178.6612

Total	0.1438	0.5605	1.8494	5.0300e-003	0.2891	9.9100e-003	0.2990	0.0781	9.1300e-003	0.0872	0.0000	367.5546	367.5546	9.7000e-003	0.0000	367.7582
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3.5 Paving - 2021

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	INBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Off-Road	0.2182	2.1159	2.3557	3.7300e-003	0.1101	0.1101	0.1101	0.1019	0.1019	0.1019	0.0000	318.9161	318.9161	0.0978	0.0000	320.9705
Paving	0.0000				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	0.2182	2.1159	2.3557	3.7300e-003	0.1101	0.1101	0.1101	0.1019	0.1019	0.1019	0.0000	318.9161	318.9161	0.0978	0.0000	320.9705

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	INBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.7200e-003	0.0113	0.1061	3.7000e-004	0.0296	2.2000e-004	0.0299	7.8800e-003	2.0000e-004	8.0800e-003	0.0000	23.2448	23.2448	1.0800e-003	0.0000	23.2675
Total	8.7200e-003	0.0113	0.1061	3.7000e-004	0.0296	2.2000e-004	0.0299	7.8800e-003	2.0000e-004	8.0800e-003	0.0000	23.2448	23.2448	1.0800e-003	0.0000	23.2675

Mitigated Construction On-Site

Archit. Coating	3.3196					0.0000	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	0.0289	0.2015	3.9000e-004		0.0124	0.0124	0.0124	0.0124	0.0124	0.0000	0.0000	0.0000	0.0000	0.0000	2.3100e-003	33.7030	33.7030	33.7515
Total	3.3485	0.2015	3.9000e-004		0.0124	0.0124	0.0124	0.0124	0.0124	0.0000	0.0000	0.0000	0.0000	0.0000	2.3100e-003	33.7030	33.7030	33.7515

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	0.0000	0.0000	0.0000	0.0000	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	8.1000e-003	0.0105	0.0985	3.4000e-004	0.0275	2.0000e-004	0.0277	7.3100e-003	1.9000e-004	7.5000e-003	0.0000	21.5845	21.5845	1.0000e-003	0.0000	21.6055
Total	8.1000e-003	0.0105	0.0985	3.4000e-004	0.0275	2.0000e-004	0.0277	7.3100e-003	1.9000e-004	7.5000e-003	0.0000	21.5845	21.5845	1.0000e-003	0.0000	21.6055

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
	tons/yr															
Archit. Coating	3.3196					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0289	0.2015	3.9000e-004		0.0124	0.0124	0.0124	0.0124	0.0124	0.0124	0.0000	0.0000	33.7029	2.3100e-003	0.0000	33.7515
Total	3.3485	0.2015	3.9000e-004		0.0124	0.0124	0.0124	0.0124	0.0124	0.0124	0.0000	0.0000	33.7029	2.3100e-003	0.0000	33.7515

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
tons/yr											MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.1000e-003	0.0105	0.0985	3.4000e-004	0.0275	2.0000e-004	0.0277	7.3100e-003	1.9000e-004	7.5000e-003	0.0000	21.5845	21.5845	1.0000e-003	0.0000	21.6055
Total	8.1000e-003	0.0105	0.0985	3.4000e-004	0.0275	2.0000e-004	0.0277	7.3100e-003	1.9000e-004	7.5000e-003	0.0000	21.5845	21.5845	1.0000e-003	0.0000	21.6055

Otay Ranch Resort Village Year 7 Construction San Diego Air Basin, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
City Park	2.90	Acre	2.90	126,324.00	0
Single Family Housing	210.00	Dwelling Unit	58.70	378,000.00	601

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2022

Utility Company

CO2 Intensity (lb/MW/hr)	0	CH4 Intensity (lb/MW/hr)	0	N2O Intensity (lb/MW/hr)	0
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1.3 User Entered Comments & Non-Default Data

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	150.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	100.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	150.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	100.00
tblAreaCoating	Area_Nonresidential_Interior	189486	0
tblAreaCoating	Area_Residential_Exterior	255150	0
tblAreaCoating	Area_Residential_Interior	765450	0
tblAreaMitigation	UseLowVOCPaintNonresidentialExterior	250	0
tblAreaMitigation	UseLowVOCPaintNonresidentialInterior	250	0

tblAreaMitigation	UseLowVOCPaintResidentialExteriorVal	250		0
tblAreaMitigation	UseLowVOCPaintResidentialInteriorVal	250		0
tblConstructionPhase	NumDays	75.00		132.00
tblConstructionPhase	NumDays	1,110.00		220.00
tblConstructionPhase	NumDays	110.00		129.00
tblConstructionPhase	NumDays	75.00		132.00
tblConstructionPhase	PhaseEndDate	7/5/2022		12/31/2021
tblConstructionPhase	PhaseEndDate	6/3/2022		12/31/2021
tblConstructionPhase	PhaseEndDate	7/5/2022		12/31/2021
tblConstructionPhase	PhaseEndDate	12/29/2021		7/31/2021
tblConstructionPhase	PhaseStartDate	1/1/2022		7/1/2021
tblConstructionPhase	PhaseStartDate	8/1/2021		3/1/2021
tblConstructionPhase	PhaseStartDate	1/1/2022		7/1/2021
tblConstructionPhase	PhaseStartDate	7/1/2021		2/1/2021
tblGrading	AcresOfGrading	903.00		80.20
tblGrading	MaterialExported	0.00		848,378.00
tblGrading	MaterialImported	0.00		848,378.00
tblLandUse	LotAcreage	68.18		58.70
tblOffRoadEquipment	HorsePower	400.00		189.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00		2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00		2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00		4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00		6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00		2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00		2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00		4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00		4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00		4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00		2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00		6.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblProjectCharacteristics	OperationalYear	2014	2022
tblTripsAndVMT	HaulingTripLength	20.00	0.25
tblTripsAndVMT	VendorTripNumber	43.00	86.00
tblTripsAndVMT	WorkerTripNumber	55.00	56.00
tblTripsAndVMT	WorkerTripNumber	129.00	258.00
tblTripsAndVMT	WorkerTripNumber	55.00	56.00
tblTripsAndVMT	WorkerTripNumber	26.00	52.00

2.0 Emissions Summary

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
2021	61.5104	210.3400	353.2446	0.3620	18.2583	8.5827	26.8410	7.9725	7.9349	15.9074	0.0000	33,558.15	33,558.157	7.9092	0.0000	33,724.250
Total	61.5104	210.3400	353.2446	0.3620	18.2583	8.5827	26.8410	7.9725	7.9349	15.9074	0.0000	33,558.15	33,558.157	7.9092	0.0000	33,724.250

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
2021	61.5104	210.3400	353.2446	0.3620	18.2583	8.5827	26.8410	7.9725	7.9349	15.9074	0.0000	33,558.15	33,558.157	7.9092	0.0000	33,724.250
Total	61.5104	210.3400	353.2446	0.3620	18.2583	8.5827	26.8410	7.9725	7.9349	15.9074	0.0000	33,558.15	33,558.157	7.9092	0.0000	33,724.250

Year	lb/day										lb/day					
2021	61.5104	210.3400	353.2446	0.3620	9.3818	8.5827	17.9644	3.7199	7.9349	11.6548	0.0000	33,558.15	33,558.157	7.9092	0.0000	33,724.250
Total	61.5104	210.3400	353.2446	0.3620	9.3818	8.5827	17.9644	3.7199	7.9349	11.6548	0.0000	33,558.15	33,558.157	7.9092	0.0000	33,724.250

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	48.62	0.00	33.07	53.34	0.00	26.73	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading	Grading	1/1/2021	6/30/2021	5	129	
2	Utilities	Trenching	2/1/2021	7/31/2021	5	130	
3	Building Construction	Building Construction	3/1/2021	12/31/2021	5	220	
4	Paving	Paving	7/1/2021	12/31/2021	5	132	
5	Architectural Coating	Architectural Coating	7/1/2021	12/31/2021	5	132	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 80.2

Acres of Paving: 0

Residential Indoor: 765,450; Residential Outdoor: 255,150; Non-Residential Indoor: 189,486; Non-Residential Outdoor: 63,162

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Excavators	4	8.00	162	0.38

Grading	Graders	2	8.00	174	0.41
Grading	Off-Highway Trucks	2	8.00	189	0.38
Grading	Rubber Tired Dozers	2	8.00	255	0.40
Grading	Scrapers	6	8.00	361	0.48
Grading	Tractors/Loaders/Backhoes	6	8.00	97	0.37
Utilities	Excavators	4	8.00	162	0.38
Utilities	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Utilities	Trenchers	2	8.00	80	0.50
Building Construction	Cranes	2	7.00	226	0.29
Building Construction	Forklifts	6	8.00	89	0.20
Building Construction	Generator Sets	2	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	6	7.00	97	0.37
Building Construction	Welders	2	8.00	46	0.45
Paving	Cement and Mortar Mixers	8	8.00	9	0.56
Paving	Pavers	4	8.00	125	0.42
Paving	Paving Equipment	4	8.00	130	0.36
Paving	Rollers	4	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	2	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
Grading	22	56.00	0.00	212,095.00	10.80	7.30	0.25	LD_Mix	HDT_Mix	HHDT
Utilities	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	18	258.00	86.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	22	56.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	2	52.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area
Reduce Vehicle Speed on Unpaved Roads

3.2 Grading - 2021

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					14.5518	0.0000	14.5518	6.9715	0.0000	6.9715			0.0000			0.0000
Off-Road	11.2236	119.1749	95.2325	0.1718	5.2788	5.2788	5.2788	4.8565	4.8565	4.8565		16.639.03	16.639.033	5.3814		16,752.043
												36	6			0
Total	11.2236	119.1749	95.2325	0.1718	14.5518	5.2788	19.8306	6.9715	4.8565	11.8280		16.639.03	16.639.033	5.3814		16,752.043
												36	6			0

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	10.2933	31.5473	184.0911	0.0472	0.3921	0.1248	0.5169	0.1104	0.1148	0.2253		14,166.8974	14,166.8974	0.1061		14,169.1262
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		4	0.0000	0.0000		0.0000
Worker	0.1359	0.1545	1.6876	5.8400e-003	0.4600	3.3100e-003	0.4633	0.1220	3.0700e-003	0.1251		409.4346	409.4346	0.0181		409.8137
Total	10.4292	31.7019	185.7787	0.0530	0.8522	0.1281	0.9803	0.2324	0.1179	0.3503		4,576.332	4,576.3320	0.1242		4,578.9398
												0				

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					5.6752	0.0000	5.6752	2.7189	0.0000	2.7189			0.0000			0.0000
Off-Road	11.2236	119.1749	95.2325	0.1718	5.2788	5.2788	5.2788	4.8565	4.8565	4.8565	0.0000	16.639.03	16.639.033	5.3814		16,752.043
												36	6			0
Total	11.2236	119.1749	95.2325	0.1718	5.6752	5.2788	10.9540	2.7189	4.8565	7.5754	0.0000	16,639.03	16,639.033	5.3814		16,752.043
												36	6			0

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	10.2933	31.5473	184.0911	0.0472	0.3921	0.1248	0.5169	0.1104	0.1148	0.2253			4,166.89714,166.8974	0.1061		14,169.1262
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	0.1359	0.1545	1.6876	5.8400e-003	0.4600	3.3100e-003	0.4633	0.1220	3.0700e-003	0.1251			409.4346	409.4346	0.0181	409.8137
Total	10.4292	31.7019	185.7787	0.0530	0.8522	0.1281	0.9803	0.2324	0.1179	0.3503			4,576.332	0.1242		4,578.9398

3.3 Utilities - 2021 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	2.0991	19.8275	23.2853	0.0343	1.1750	1.1750	1.0810	1.0810	1.0750	1.0750	3,323.8307	3,323.8307	1.0750	1.0750	13,346.4055
Total	2.0991	19.8275	23.2853	0.0343	1.1750	1.1750	1.0810	1.0810	1.0750	1.0750	3,323.8307	3,323.8307	1.0750	1.0750	3,346.4055

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	0.0000	0.0000	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	0.0485	0.0552	0.6027	2.0800e-003	0.1643	1.1800e-003	0.1655	0.0436	1.1000e-003	0.0447		146.2267	146.2267	6.4500e-003		146.3620
Total	0.0485	0.0552	0.6027	2.0800e-003	0.1643	1.1800e-003	0.1655	0.0436	1.1000e-003	0.0447		146.2267	146.2267	6.4500e-003		146.3620

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	2.0991	19.8275	23.2853	0.0343	1.1750	1.1750	1.1750	1.0810	1.0810	1.0810	0.0000	3,323.8307	3,323.8307	1.0750	1.0750	13,346.4055
Total	2.0991	19.8275	23.2853	0.0343	1.1750	1.1750	1.1750	1.0810	1.0810	1.0810	0.0000	3,323.8307	3,323.8307	1.0750	1.0750	3,346.4055

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
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	0.0485	0.0552	0.6027	2.0800e-003	0.1643	1.1800e-003	0.1655	0.0436	1.1000e-003	0.0447	146.2267	146.2267	146.2267	6.4500e-003		146.3620
Total	0.0485	0.0552	0.6027	2.0800e-003	0.1643	1.1800e-003	0.1655	0.0436	1.1000e-003	0.0447	146.2267	146.2267	146.2267	6.4500e-003		146.3620

3.4 Building Construction - 2021
Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Off-Road	3.7862	34.6805	33.0753	0.0536	1.9098	1.9098	1.9098	1.7957	1.7957	1.7957	5,085.5635	5	5,085.5635	1.2252		5,111.2923
Total	3.7862	34.6805	33.0753	0.0536	1.9098	1.9098	1.9098	1.7957	1.7957	1.7957	5,085.5635	5	5,085.5635	1.2252		5,111.2923

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															

Category	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
Vendor	0.6475	4.1880	7.4953	0.0203	0.5707	0.0746	0.1628	0.0686	0.2314	1,900.847	1,900.8475	0.0138
Worker	0.6261	0.7120	7.7748	0.0269	2.1194	0.0153	2.1347	0.5622	0.5763	1,886.323	1,886.3238	0.0832
Total	1.2736	4.9000	15.2701	0.0472	2.6901	0.0898	2.7799	0.7250	0.8077	3,787.171	3,787.1713	0.0970

Mitigated Construction On-Site

Category	lb/day											
Off-Road	3.7862	34.6805	33.0753	0.0536	1.9098	1.9098	1.7957	1.7957	0.0000	5,085.563	5,085.5635	1.2252
Total	3.7862	34.6805	33.0753	0.0536	1.9098	1.9098	1.7957	1.7957	0.0000	5,085.563	5,085.5635	1.2252

Mitigated Construction Off-Site

Category	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
Vendor	0.6475	4.1880	7.4953	0.0203	0.5707	0.0746	0.1628	0.0686	0.2314	1,900.847	1,900.8475	0.0138
Worker	0.6261	0.7120	7.7748	0.0269	2.1194	0.0153	2.1347	0.5622	0.5763	1,886.323	1,886.3238	0.0832

Total	1.2736	4.9000	15.2701	0.0472	2.6901	0.0898	2.7799	0.7250	0.8077	3,787.171	3,787.1713	0.0970	3,789.2074
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3.5 Paving - 2021

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	3.3062	32.0584	35.6929	0.0565		1.6684	1.6684		1.5441	1.5441		5,326.4367	5,326.4367	1.6339		5,360.7492
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	3.3062	32.0584	35.6929	0.0565		1.6684	1.6684		1.5441	1.5441		5,326.4367	5,326.4367	1.6339		5,360.7492

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	0.0000	0.0000	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	0.1359	0.1545	1.6876	5.8400e-003	0.4600	3.3100e-003	0.4633	0.1220	3.0700e-003	0.1251		409.4346	409.4346	0.0181		409.8137
Total	0.1359	0.1545	1.6876	5.8400e-003	0.4600	3.3100e-003	0.4633	0.1220	3.0700e-003	0.1251		409.4346	409.4346	0.0181		409.8137

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	3.3062	32.0584	35.6929	0.0565	1.6684	1.6684	1.6684	1.5441	1.5441	1.5441	0.0000	5,326.4366	5,326.4366	1.6339		5,360.7492
Paving	0.0000				0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		6	0.0000			0.0000
Total	3.3062	32.0584	35.6929	0.0565	1.6684	1.6684	1.6684	1.5441	1.5441	1.5441	0.0000	5,326.4366	5,326.4366	1.6339		5,360.7492

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	0.0000	0.0000	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	0.1359	0.1545	1.6876	5.8400e-003	0.4600	3.3100e-003	0.4633	0.1220	3.0700e-003	0.1251		409.4346	409.4346	0.0181		409.8137
Total	0.1359	0.1545	1.6876	5.8400e-003	0.4600	3.3100e-003	0.4633	0.1220	3.0700e-003	0.1251		409.4346	409.4346	0.0181		409.8137

3.6 Architectural Coating - 2021
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															

Archit. Coating	50.2969						0.0000	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	0.4378	3.0537	3.6351	5.9400e-003	0.1882	0.1882	0.1882	0.1882	0.1882	0.1882	0.1882	0.1882	0.1882	0.1882	0.1882	0.1882	0.1882	0.1882	0.1882	0.0386	562.8961	562.8961	563.7073
Total	50.7347	3.0537	3.6351	5.9400e-003	0.1882	0.1882	0.1882	0.1882	0.1882	0.1882	0.1882	0.1882	0.1882	0.1882	0.1882	0.1882	0.1882	0.1882	0.1882	0.0386	562.8961	562.8961	563.7073

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	0.1262	0.1435	1.5670	5.4200e-003	0.4272	3.0800e-003	0.4303	0.1133	2.8500e-003	0.1162	380.1893	380.1893	380.1893	0.0168		380.5413
Total	0.1262	0.1435	1.5670	5.4200e-003	0.4272	3.0800e-003	0.4303	0.1133	2.8500e-003	0.1162	380.1893	380.1893	380.1893	0.0168		380.5413

Mitigated Construction On-Site

Archit. Coating	50.2969						0.0000	0.0000	0.0000	0.0000	0.0000	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	0.4378	3.0537	3.6351	5.9400e-003	0.1882	0.1882	0.1882	0.1882	0.1882	0.1882	0.1882	0.1882	0.1882	0.1882	0.1882	0.1882	0.1882	0.1882	0.1882	0.1882	0.0386	562.8961	562.8961	563.7073
Total	50.7347	3.0537	3.6351	5.9400e-003	0.1882	0.1882	0.1882	0.1882	0.1882	0.1882	0.1882	0.1882	0.1882	0.1882	0.1882	0.1882	0.1882	0.1882	0.1882	0.0386	562.8961	562.8961	563.7073	

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
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	0.1262	0.1435	1.5670	5.4200e-003	0.4272	3.0800e-003	0.4303	0.1133	2.8500e-003	0.1162	380.1893	380.1893	380.1893	0.0168		380.5413
Total	0.1262	0.1435	1.5670	5.4200e-003	0.4272	3.0800e-003	0.4303	0.1133	2.8500e-003	0.1162	380.1893	380.1893	380.1893	0.0168		380.5413

Otay Ranch Resort Village Year 8 Construction

San Diego Air Basin, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	10.00	1000sqft	0.23	10,000.00	0
City Park	2.30	Acre	2.30	100,188.00	0
Condo/Townhouse	57.00	Dwelling Unit	8.30	57,000.00	163
Single Family Housing	210.00	Dwelling Unit	58.70	378,000.00	601
Strip Mall	20.00	1000sqft	8.00	20,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2023

Utility Company

CO2 Intensity (lb/MW/hr)	0	CH4 Intensity (lb/MW/hr)	0	N2O Intensity (lb/MW/hr)	0
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1.3 User Entered Comments & Non-Default Data

Table Name	Column Name	Default Value	New Value
tb\ArchitecturalCoating	EF_Nonresidential_Exterior	250.00	150.00
tb\ArchitecturalCoating	EF_Nonresidential_Interior	250.00	100.00
tb\ArchitecturalCoating	EF_Residential_Exterior	250.00	150.00
tb\ArchitecturalCoating	EF_Residential_Interior	250.00	100.00
tb\AreaCoating	Area_Nonresidential_Interior	195282	0
tb\AreaCoating	Area_Residential_Exterior	293625	0

tblAreaCoating	Area_Residential_Interior	880875			0
tblAreaMitigation	UseLowVOCPaintNonresidentialExterior	250			0
tblAreaMitigation	UseLowVOCPaintNonresidentialInterior	250			0
tblAreaMitigation	UseLowVOCPaintResidentialExteriorVal	250			0
tblAreaMitigation	UseLowVOCPaintResidentialInteriorVal	250			0
tblConstructionPhase	NumDays	110.00			131.00
tblConstructionPhase	NumDays	1,550.00			219.00
tblConstructionPhase	NumDays	155.00			129.00
tblConstructionPhase	NumDays	110.00			131.00
tblConstructionPhase	PhaseEndDate	7/3/2023			12/31/2022
tblConstructionPhase	PhaseEndDate	6/1/2023			12/31/2022
tblConstructionPhase	PhaseEndDate	7/3/2023			12/31/2022
tblConstructionPhase	PhaseEndDate	12/28/2022			7/31/2022
tblConstructionPhase	PhaseStartDate	1/1/2023			7/1/2022
tblConstructionPhase	PhaseStartDate	8/1/2022			3/1/2022
tblConstructionPhase	PhaseStartDate	1/1/2023			7/1/2022
tblConstructionPhase	PhaseStartDate	7/1/2022			2/1/2022
tblGrading	AcresOfGrading	903.00			100.50
tblGrading	MaterialExported	0.00			1,063,117.00
tblGrading	MaterialImported	0.00			1,063,117.00
tblLandUse	LotAcreage	3.56			8.30
tblLandUse	LotAcreage	68.18			58.70
tblLandUse	LotAcreage	0.46			8.00
tblOffRoadEquipment	HorsePower	400.00			189.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00			2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00			2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00			4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00			6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00			2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00			2.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblProjectCharacteristics	OperationalYear	2014	2023
tblTripsAndVMT	HaulingTripLength	20.00	0.25
tblTripsAndVMT	VendorTripNumber	50.00	96.00
tblTripsAndVMT	WorkerTripNumber	55.00	56.00
tblTripsAndVMT	WorkerTripNumber	168.00	330.00
tblTripsAndVMT	WorkerTripNumber	55.00	56.00
tblTripsAndVMT	WorkerTripNumber	34.00	66.00

2.0 Emissions Summary

2.1 Overall Construction 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
2022	6.1814	16.1418	34.8180	0.0344	1.4722	0.6570	2.1291	0.5882	0.6096	1.1978	0.0000	2,834.392	2,834.3921	0.6221	0.0000	2,847.4565
Total	6.1814	16.1418	34.8180	0.0344	1.4722	0.6570	2.1291	0.5882	0.6096	1.1978	0.0000	2,834.392	2,834.3921	0.6221	0.0000	2,847.4565

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
tons/yr																
MIT/yr																
2022	6.1814	16.1418	34.8180	0.0344	0.8747	0.6570	1.5316	0.3104	0.6096	0.9200	0.0000	2.834.389	2.834.3897	0.6221	0.0000	2.847.4541
Total	6.1814	16.1418	34.8180	0.0344	0.8747	0.6570	1.5316	0.3104	0.6096	0.9200	0.0000	2.834.389	2.834.3897	0.6221	0.0000	2.847.4541

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	40.59	0.00	28.06	47.23	0.00	23.19	0.00	0.00	0.00	0.00	0.00	0.00
Percent Reduction															

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading	Grading	11/1/2022	6/30/2022	5	129	
2	Utilities	Trenching	12/1/2022	7/31/2022	5	129	
3	Building Construction	Building Construction	13/1/2022	12/31/2022	5	219	
4	Paving	Paving	7/1/2022	12/31/2022	5	131	
5	Architectural Coating	Architectural Coating	7/1/2022	12/31/2022	5	131	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 100.5

Acres of Paving: 0

Residential Indoor: 880,875; Residential Outdoor: 293,625; Non-Residential Indoor: 195,282; Non-Residential Outdoor: 65,094

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Excavators	4	8.00	162	0.38
Grading	Graders	2	8.00	174	0.41
Grading	Off-Highway Trucks	2	8.00	189	0.38
Grading	Rubber Tired Dozers	2	8.00	255	0.40
Grading	Scrapers	6	8.00	361	0.48
Grading	Tractors/Loaders/Backhoes	6	8.00	97	0.37
Utilities	Excavators	4	8.00	162	0.38
Utilities	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Utilities	Trenchers	2	8.00	80	0.50
Building Construction	Cranes	2	7.00	226	0.29
Building Construction	Forklifts	6	8.00	89	0.20
Building Construction	Generator Sets	2	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	6	7.00	97	0.37
Building Construction	Welders	2	8.00	46	0.45
Paving	Cement and Mortar Mixers	8	8.00	9	0.56
Paving	Pavers	4	8.00	125	0.42
Paving	Paving Equipment	4	8.00	130	0.36
Paving	Rollers	4	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	2	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
Grading	22	56.00	0.00	265,780.00	10.80	7.30	0.25	LD_Mix	HDT_Mix	HHDT
Utilities	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	18	330.00	96.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

Paving	221	56.00	0.00	0.00	10.80	7.30	20.00	iHDT_Mix	iHDT
Architectural Coating	21	66.00	0.00	0.00	10.80	7.30	20.00	iHDT_Mix	iHDT

3.1 Mitigation Measures Construction

Water Exposed Area
Reduce Vehicle Speed on Unpaved Roads

3.2 Grading - 2022

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
MT/yr																
Fugitive Dust					0.9795	0.0000	0.9795	0.4554	0.0000	0.4554	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.6459	6.5727	5.8340	0.0111	0.2892	0.2892	0.2892	0.2660	0.2660	0.2660	0.0000	974.4940	974.4940	0.3152	0.0000	981.1126
Total	0.6459	6.5727	5.8340	0.0111	0.9795	0.2892	1.2687	0.4554	0.2660	0.7214	0.0000	974.4940	974.4940	0.3152	0.0000	981.1126

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
MT/yr																
Hauling	0.8865	2.4033	18.9187	3.7700e-003	0.0311	0.0103	0.0414	8.7800e-003	9.4900e-003	0.0183	0.0000	296.9070	296.9070	8.5100e-003	0.0000	297.0858
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	8.1200e-003	0.0104	0.0978	3.6000e-004	0.0290	2.2000e-004	0.0292	7.7000e-003	2.0000e-004	7.9000e-003	0.0000	22.3382	22.3382	1.0100e-003	0.0000	22.3595

Total	0.8946	2.4137	19.0165	4.1300e-003	0.0601	0.0105	0.0706	0.0165	9.6900e-003	0.0262	0.0000	319.2453	319.2453	9.5200e-003	0.0000	319.4453
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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	INBio- CO2	Total CO2	CH4	N2O	CO2e
tons/yr																
MIT/yr																
Fugitive Dust					0.3820	0.0000	0.3820	0.1776	0.0000	0.1776	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.6459	6.5727	5.8340	0.0111		0.2892	0.2892		0.2660	0.2660	0.0000	974.4928	974.4928	0.3152	0.0000	981.1114
Total	0.6459	6.5727	5.8340	0.0111	0.3820	0.2892	0.6712	0.1776	0.2660	0.4436	0.0000	974.4928	974.4928	0.3152	0.0000	981.1114

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	INBio- CO2	Total CO2	CH4	N2O	CO2e
tons/yr																
MIT/yr																
Hauling	0.8865	2.4033	18.9187	3.7700e-003	0.0311	0.0103	0.0414	8.7800e-003	9.4900e-003	0.0183	0.0000	296.9070	296.9070	8.5100e-003	0.0000	297.0858
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	8.1200e-003	0.0104	0.0978	3.6000e-004	0.0290	2.2000e-004	0.0292	7.7000e-003	2.0000e-004	7.9000e-003	0.0000	22.3382	22.3382	1.0100e-003	0.0000	22.3595
Total	0.8946	2.4137	19.0165	4.1300e-003	0.0601	0.0105	0.0706	0.0165	9.6900e-003	0.0262	0.0000	319.2453	319.2453	9.5200e-003	0.0000	319.4453

3.3 Utilities - 2022

Unmitigated Construction On-Site

Off-Road	0.1229	1.1334	1.4936	2.2100e-003	0.0660	0.0660	0.0660	0.0608	0.0608	0.0000	194.4889	194.4889	0.0629	0.0000	195.8099
Total	0.1229	1.1334	1.4936	2.2100e-003	0.0660	0.0660	0.0660	0.0608	0.0608	0.0000	194.4889	194.4889	0.0629	0.0000	195.8099

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	2.9000e-003	3.7100e-003	0.0349	1.3000e-004	0.0103	8.0000e-005	0.0104	2.7500e-003	7.0000e-005	2.8200e-003	0.0000	7.9779	7.9779	3.6000e-004	0.0000	7.9855
Total	2.9000e-003	3.7100e-003	0.0349	1.3000e-004	0.0103	8.0000e-005	0.0104	2.7500e-003	7.0000e-005	2.8200e-003	0.0000	7.9779	7.9779	3.6000e-004	0.0000	7.9855

3.4 Building Construction - 2022
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	0.3721	3.4025	3.5757	5.8700e-003	0.1765	0.1765	0.1765	0.1660	0.1660	0.1660	0.0000	505.3755	505.3755	0.1209	0.0000	507.9144
Total	0.3721	3.4025	3.5757	5.8700e-003	0.1765	0.1765	0.1765	0.1660	0.1660	0.1660	0.0000	505.3755	505.3755	0.1209	0.0000	507.9144

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	0.0820	0.4627	1.1049	2.4700e-003	0.0684	9.0000e-003	0.0774	0.0196	8.2800e-003	0.0278	0.0000	209.8757	209.8757	1.5800e-003	0.0000	209.9090
Worker	0.0812	0.1039	0.9786	3.5700e-003	0.2898	2.1500e-003	0.2919	0.0770	2.0000e-003	0.0790	0.0000	223.4750	223.4750	0.0101	0.0000	223.6879
Total	0.1632	0.5666	2.0835	6.0400e-003	0.3581	0.0112	0.3693	0.0966	0.0103	0.1068	0.0000	433.3508	433.3508	0.0117	0.0000	433.5969

3.5 Paving - 2022

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	0.1940	1.8418	2.3257	3.7000e-003	0.0924	0.0924	0.0924	0.0856	0.0856	0.0856	0.0000	316.5919	316.5919	0.0971	0.0000	318.6314
Paving	0.0000	0.0000	0.0000	0.0000	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	0.1940	1.8418	2.3257	3.7000e-003	0.0924	0.0924	0.0924	0.0856	0.0856	0.0856	0.0000	316.5919	316.5919	0.0971	0.0000	318.6314

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	8.2400e-003	0.0106	0.0993	3.6000e-004	0.0294	2.2000e-004	0.0296	7.8200e-003	2.0000e-004	8.0200e-003	0.0000	22.6846	22.6846	1.0300e-003	0.0000	22.7062

Total	8.2400e-003	0.0106	0.0993	3.6000e-004	0.0294	2.2000e-004	0.0296	7.8200e-003	2.0000e-004	8.0200e-003	0.0000	22.6846	22.6846	1.0300e-003	0.0000	22.7062
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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	INBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr															
	MIT/yr															
Off-Road	0.1940	1.8418	2.3257	3.7000e-003	0.0924	0.0924	0.0924	0.0856	0.0856	0.0856	0.0000	316.5915	316.5915	0.0971	0.0000	318.6310
Paving	0.0000				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	0.1940	1.8418	2.3257	3.7000e-003	0.0924	0.0924	0.0924	0.0856	0.0856	0.0856	0.0000	316.5915	316.5915	0.0971	0.0000	318.6310

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	INBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr															
	MIT/yr															
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.2400e-003	0.0106	0.0993	3.6000e-004	0.0294	2.2000e-004	0.0296	7.8200e-003	2.0000e-004	8.0200e-003	0.0000	22.6846	22.6846	1.0300e-003	0.0000	22.7062
Total	8.2400e-003	0.0106	0.0993	3.6000e-004	0.0294	2.2000e-004	0.0296	7.8200e-003	2.0000e-004	8.0200e-003	0.0000	22.6846	22.6846	1.0300e-003	0.0000	22.7062

3.6 Architectural Coating - 2022
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											MT/yr					
Archit. Coating	3.7410				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	0.0268	0.1845	0.2376	3.9000e-004	0.0107	0.0107	0.0107	0.0107	0.0107	0.0107	0.0000	33.4476	33.4476	2.1800e-003	0.0000	33.4934
Total	3.7678	0.1845	0.2376	3.9000e-004	0.0107	0.0107	0.0107	0.0107	0.0107	0.0107	0.0000	33.4476	33.4476	2.1800e-003	0.0000	33.4934

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											MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.7200e-003	0.0124	0.1171	4.3000e-004	0.0347	2.6000e-004	0.0349	9.2100e-003	2.4000e-004	9.4500e-003	0.0000	26.7354	26.7354	1.2100e-003	0.0000	26.7608
Total	9.7200e-003	0.0124	0.1171	4.3000e-004	0.0347	2.6000e-004	0.0349	9.2100e-003	2.4000e-004	9.4500e-003	0.0000	26.7354	26.7354	1.2100e-003	0.0000	26.7608

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
tons/yr											MT/yr					
[Empty Table]																

Archit. Coating	3.7410						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	0.0288	0.1845	0.2376	3.9000e-004	0.0107	0.0107	0.0107	0.0107	0.0107	0.0107	0.0107	0.0107	0.0107	0.0107	0.0107	0.0107	0.0107	0.0107
Total	3.7678	0.1845	0.2376	3.9000e-004	0.0107	0.0107	0.0107	0.0107	0.0107	0.0107	0.0107	0.0107	0.0107	0.0107	0.0107	0.0107	0.0107	0.0107

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	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	9.7200e-003	0.0124	0.1171	4.3000e-004	0.0347	2.6000e-004	0.0349	9.2100e-003	2.4000e-004	9.4500e-003	0.0000	26.7354	26.7354	1.2100e-003	0.0000	0.0000	26.7608
Total	9.7200e-003	0.0124	0.1171	4.3000e-004	0.0347	2.6000e-004	0.0349	9.2100e-003	2.4000e-004	9.4500e-003	0.0000	26.7354	26.7354	1.2100e-003	0.0000	0.0000	26.7608

Otay Ranch Resort Village Year 8 Construction

San Diego Air Basin, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	10.00	1000sqft	0.23	10,000.00	0
City Park	2.30	Acre	2.30	100,188.00	0
Condo/Townhouse	57.00	Dwelling Unit	8.30	57,000.00	163
Single Family Housing	210.00	Dwelling Unit	58.70	378,000.00	601
Strip Mall	20.00	1000sqft	8.00	20,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2023

Utility Company

CO2 Intensity (lb/MW/hr)	0	CH4 Intensity (lb/MW/hr)	0	N2O Intensity (lb/MW/hr)	0
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1.3 User Entered Comments & Non-Default Data

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	150.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	100.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	150.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	100.00
tblAreaCoating	Area_Nonresidential_Interior	195282	0
tblAreaCoating	Area_Residential_Exterior	293625	0

tblAreaCoating	Area_Residential_Interior	880875	0
tblAreaMitigation	UseLowVOCPaintNonResidentialExterior	250	0
tblAreaMitigation	UseLowVOCPaintNonResidentialInterior	250	0
tblAreaMitigation	UseLowVOCPaintResidentialExterior	250	0
tblAreaMitigation	UseLowVOCPaintResidentialInterior	250	0
tblConstructionPhase	NumDays	110.00	131.00
tblConstructionPhase	NumDays	1,550.00	219.00
tblConstructionPhase	NumDays	155.00	129.00
tblConstructionPhase	NumDays	110.00	131.00
tblConstructionPhase	PhaseEndDate	7/3/2023	12/31/2022
tblConstructionPhase	PhaseEndDate	6/1/2023	12/31/2022
tblConstructionPhase	PhaseEndDate	7/3/2023	12/31/2022
tblConstructionPhase	PhaseEndDate	12/28/2022	7/31/2022
tblConstructionPhase	PhaseStartDate	1/1/2023	7/1/2022
tblConstructionPhase	PhaseStartDate	8/1/2022	3/1/2022
tblConstructionPhase	PhaseStartDate	1/1/2023	7/1/2022
tblConstructionPhase	PhaseStartDate	7/1/2022	2/1/2022
tblGrading	AcresOfGrading	903.00	100.50
tblGrading	MaterialExported	0.00	1,063,117.00
tblGrading	MaterialImported	0.00	1,063,117.00
tblLandUse	LotAcreage	3.56	8.30
tblLandUse	LotAcreage	68.18	58.70
tblLandUse	LotAcreage	0.46	8.00
tblOffRoadEquipment	HorsePower	400.00	189.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblProjectCharacteristics	OperationalYear	2014	2023
tblTripsAndVMT	HaulingTripLength	20.00	0.25
tblTripsAndVMT	VendorTripNumber	50.00	96.00
tblTripsAndVMT	WorkerTripNumber	55.00	56.00
tblTripsAndVMT	WorkerTripNumber	168.00	330.00
tblTripsAndVMT	WorkerTripNumber	55.00	56.00
tblTripsAndVMT	WorkerTripNumber	34.00	66.00

2.0 Emissions Summary

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
2022	67.5795	192.4340	389.3467	0.3838	19.6502	7.3776	27.0278	8.2651	6.8214	15.0865	0.0000	35.320.92	35.320.921	7.9577	0.0000	35.488.032
Total	67.5795	192.4340	389.3467	0.3838	19.6502	7.3776	27.0278	8.2651	6.8214	15.0865	0.0000	35.320.92	35.320.921	7.9577	0.0000	35.488.032

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
2022	67.5795	192.4340	389.3467	0.3838	10.3864	7.3776	17.7640	3.9583	6.8214	10.7797	0.0000	35,320.92	35,320.921	7.9577	0.0000	35,488.032
Total	67.5795	192.4340	389.3467	0.3838	10.3864	7.3776	17.7640	3.9583	6.8214	10.7797	0.0000	35,320.92	35,320.921	7.9577	0.0000	35,488.032

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	47.14	0.00	34.27	52.11	0.00	28.55	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading	Grading	1/1/2022	6/30/2022	5	129	
2	Utilities	Trenching	12/1/2022	7/31/2022	5	129	
3	Building Construction	Building Construction	3/1/2022	12/31/2022	5	219	
4	Paving	Paving	7/1/2022	12/31/2022	5	131	
5	Architectural Coating	Architectural Coating	7/1/2022	12/31/2022	5	131	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 100.5

Acres of Paving: 0

Residential Indoor: 880,875; Residential Outdoor: 293,625; Non-Residential Indoor: 195,282; Non-Residential Outdoor: 65,094

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Excavators	4	8.00	162	0.38
Grading	Graders	2	8.00	174	0.41
Grading	Off-Highway Trucks	2	8.00	189	0.38
Grading	Rubber Tired Dozers	2	8.00	255	0.40
Grading	Scrapers	6	8.00	361	0.48
Grading	Tractors/Loaders/Backhoes	6	8.00	97	0.37
Utilities	Excavators	4	8.00	162	0.38
Utilities	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Utilities	Trenchers	2	8.00	80	0.50
Building Construction	Cranes	2	7.00	226	0.29
Building Construction	Forklifts	6	8.00	89	0.20
Building Construction	Generator Sets	2	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	6	7.00	97	0.37
Building Construction	Welders	2	8.00	46	0.45
Paving	Cement and Mortar Mixers	8	8.00	9	0.56
Paving	Pavers	4	8.00	125	0.42
Paving	Paving Equipment	4	8.00	130	0.36
Paving	Rollers	4	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	2	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
Grading	22	56.00	0.00	265,780.00	10.80	7.30	0.25	LD_Mix	HDT_Mix	HHDT
Utilities	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	18	330.00	96.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

Paving	22	56.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	2	66.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area
Reduce Vehicle Speed on Unpaved Roads

3.2 Grading - 2022

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					15.1865	0.0000	15.1865	7.0604	0.0000	7.0604			0.0000			0.0000
Off-Road	10.0133	101.9023	90.4493	0.1720	4.4832	4.4832	4.4832	4.1245	4.1245	4.1245		16.654.19	16.654.197	5.3863		16,767.310
												78	8			2
Total	10.0133	101.9023	90.4493	0.1720	15.1865	4.4832	19.6697	7.0604	4.1245	11.1849		16.654.19	16,654.197	5.3863		16,767.310
												78	8			2

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	12.1452	36.7210	223.4530	0.0589	0.4914	0.1531	0.6445	0.1384	0.1409	0.2793		15,216.547	15,216.5477	0.1380		15,219.4460
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		1	0.0000	0.0000		0.0000
Worker	0.1295	0.1460	1.5949	5.8400e-003	0.4600	3.3400e-003	0.4634	0.1220	3.1000e-003	0.1251		402.6418	402.6418	0.0173		403.0055

Total	12.2747	36.8670	225.0479	0.0648	0.9515	0.1565	1.1079	0.2604	0.1440	0.4044	5,619.1889	0.1554	5,622.4515
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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					5.9227	0.0000	5.9227	2.7536	0.0000	2.7536			0.0000			0.0000
Off-Road	10.0133	101.9023	90.4493	0.1720	4.4832	4.4832	4.4832	4.1245	4.1245	4.1245	0.0000	16,654.1978	16,654.1978	5.3863		16,767.3102
Total	10.0133	101.9023	90.4493	0.1720	5.9227	4.4832	10.4059	2.7536	4.1245	6.8781	0.0000	16,654.1978	16,654.1978	5.3863		16,767.3102

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	12.1452	36.7210	223.4530	0.0589	0.4914	0.1531	0.6445	0.1384	0.1409	0.2793			5,216.5471	0.1380		5,219.4460
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	0.1295	0.1460	1.5949	5.8400e-003	0.4600	3.3400e-003	0.4634	0.1220	3.1000e-003	0.1251			402.6418	0.0173		403.0055
Total	12.2747	36.8670	225.0479	0.0648	0.9515	0.1565	1.1079	0.2604	0.1440	0.4044			5,619.1889	0.1554		5,622.4515

3.3 Utilities - 2022

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	1.9060	17.5718	23.1573	0.0343	1.0238	1.0238	1.0238	0.9419	0.9419	0.9419	3,323.8390	0	3,323.8390	1.0750		3,346.4139
Total	1.9060	17.5718	23.1573	0.0343	1.0238	1.0238	1.0238	0.9419	0.9419	0.9419	3,323.8390	0	3,323.8390	1.0750		3,346.4139

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
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
Worker	0.0463	0.0522	0.5696	2.0800e-003	0.1643	1.1900e-003	0.1655	0.0436	1.1100e-003	0.0447	143.8007	0	143.8007	6.1800e-003		143.9305
Total	0.0463	0.0522	0.5696	2.0800e-003	0.1643	1.1900e-003	0.1655	0.0436	1.1100e-003	0.0447	143.8007	0	143.8007	6.1800e-003		143.9305

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	1.9060	17.5718	23.1573	0.0343	1.0238	1.0238	0.9419	0.9419	0.0000	3,323.839	3,323.8390	1.0750	13,346.4139
Total	1.9060	17.5718	23.1573	0.0343	1.0238	1.0238	0.9419	0.9419	0.0000	3,323.839	3,323.8390	1.0750	3,346.4139

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	0.0000	0.0000	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	0.0463	0.0522	0.5696	2.0800e-003	0.1643	1.1900e-003	0.1655	0.0436	1.1100e-003	0.0447		143.8007	143.8007	6.1800e-003		143.9305
Total	0.0463	0.0522	0.5696	2.0800e-003	0.1643	1.1900e-003	0.1655	0.0436	1.1100e-003	0.0447		143.8007	143.8007	6.1800e-003		143.9305

**3.4 Building Construction - 2022
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	3.3984	31.0728	32.6651	0.0537	1.6115	1.6115	1.6115	1.5163	1.5163	1.5163		5,087.499	5,087.4994	1.2170		5,113.0573
Total	3.3984	31.0728	32.6651	0.0537	1.6115	1.6115	1.6115	1.5163	1.5163	1.5163		5,087.499	5,087.4994	1.2170		5,113.0573

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
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
Vendor	0.6975	4.1075	8.0689	0.0226	0.6371	0.0819	0.7190	0.1817	0.0753	0.2571	2,119.6851	2,119.6851	4,239.3702	0.0157		12,120.0152
Worker	0.7633	0.8605	9.3985	0.0344	2.7109	0.0197	2.7305	0.7191	0.0182	0.7373	2,372.7101	2,372.7101	4,745.4202	0.1020		12,374.8537
Total	1.4608	4.9680	17.4674	0.0570	3.3480	0.1016	3.4495	0.9008	0.0936	0.9944	4,492.3959	4,492.3959	8,984.7904	0.1178		4,494.8689

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Off-Road	3.3984	31.0728	32.6551	0.0537		1.6115	1.6115		1.5163	1.5163	0.0000	5,087.4993	5,087.4993	1.2170		15,113.0573
Total	3.3984	31.0728	32.6551	0.0537		1.6115	1.6115		1.5163	1.5163	0.0000	5,087.4993	5,087.4993	1.2170		5,113.0573

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															

Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.6975	4.1075	8.0689	0.0226	0.6371	0.0819	0.7190	0.1817	0.0753	0.2571	2,119.685	2,119.6851	0.0157	2,120.0152		
Worker	0.7633	0.8605	9.3985	0.0344	2.7109	0.0197	2.7305	0.7191	0.0182	0.7373	2,372.710	2,372.7108	0.1020	2,374.8537		
Total	1.4608	4.9680	17.4674	0.0570	3.3480	0.1016	3.4495	0.9008	0.0936	0.9944	4,492.395	4,492.3959	0.1178	4,494.8689		

3.5 Paving - 2022

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
Off-Road	2.9625	28.1183	35.5065	0.0566	1.4101	1.4101	1.4101	1.3064	1.3064	1.3064		15,327.982	15,327.9822	1.6344		15,362.3052
Paving	0.0000				0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Total	2.9625	28.1183	35.5065	0.0566	1.4101	1.4101	1.4101	1.3064	1.3064	1.3064		15,327.982	15,327.9822	1.6344		15,362.3052

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
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	0.1295	0.1460	1.5949	5.8400e-003	0.4600	3.3400e-003	0.4634	0.1220	3.1000e-003	0.1251	402.6418	402.6418	402.6418	0.0173		403.0055

Total	0.1295	0.1460	1.5949	5.8400e-003	0.4600	3.3400e-003	0.4634	0.1220	3.1000e-003	0.1251	402.6418	402.6418	0.0173	403.0055
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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	2.9625	28.1183	35.5065	0.0566	1.4101	1.4101	1.4101	1.3064	1.3064	1.3064	0.0000	5,327.9822	5,327.9822	1.6344			5,362.3052
Paving	0.0000				0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		2	0.0000				0.0000
Total	2.9625	28.1183	35.5065	0.0566	1.4101	1.4101	1.4101	1.3064	1.3064	1.3064	0.0000	5,327.9822	5,327.9822	1.6344			5,362.3052

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	0.0000	0.0000	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	0.1295	0.1460	1.5949	5.8400e-003	0.4600	3.3400e-003	0.4634	0.1220	3.1000e-003	0.1251		402.6418	402.6418	0.0173			403.0055
Total	0.1295	0.1460	1.5949	5.8400e-003	0.4600	3.3400e-003	0.4634	0.1220	3.1000e-003	0.1251		402.6418	402.6418	0.0173			403.0055

3.6 Architectural Coating - 2022
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															
Archit. Coating	57.1144				0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.4091	2.8170	3.6272	5.9400e-003	0.1634	0.1634	0.1634	0.1634	0.1634	0.1634		562.8961	562.8961	0.0367		563.6657
Total	57.5234	2.8170	3.6272	5.9400e-003	0.1634	0.1634	0.1634	0.1634	0.1634	0.1634		562.8961	562.8961	0.0367		563.6657

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	0.1527	0.1721	1.8797	6.8800e-003	0.5422	3.9300e-003	0.5461	0.1438	3.6500e-003	0.1475		474.5422	474.5422	0.0204		474.9707
Total	0.1527	0.1721	1.8797	6.8800e-003	0.5422	3.9300e-003	0.5461	0.1438	3.6500e-003	0.1475		474.5422	474.5422	0.0204		474.9707

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	57.1144	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	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	0.4091	2.8170	3.6272	5.9400e-003	0.1634	0.1634	0.1634	0.1634	0.1634	0.1634	0.1634	0.0000	562.8961	562.8961	0.0367	0.0367	0.0000	0.0000	563.6657
Total	57.5234	2.8170	3.6272	5.9400e-003	0.1634	0.1634	0.1634	0.1634	0.1634	0.1634	0.1634	0.0000	562.8961	562.8961	0.0367	0.0367	0.0000	0.0000	563.6657

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	0.1527	0.1721	1.8797	6.8800e-003	0.5422	3.9300e-003	0.5461	0.1438	3.6500e-003	0.1475	474.5422	474.5422	474.5422	0.0204	0.0204	474.9707
Total	0.1527	0.1721	1.8797	6.8800e-003	0.5422	3.9300e-003	0.5461	0.1438	3.6500e-003	0.1475	474.5422	474.5422	474.5422	0.0204	0.0204	474.9707

Otay Ranch Resort Village Year 9 Construction San Diego Air Basin, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
City Park	1.60	Acre	1.60	69,696.00	0
Single Family Housing	210.00	Dwelling Unit	58.70	378,000.00	601

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2024

Utility Company

CO2 Intensity (lb/MW/hr)	0	CH4 Intensity (lb/MW/hr)	0	N2O Intensity (lb/MW/hr)	0
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1.3 User Entered Comments & Non-Default Data

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	150.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	100.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	150.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	100.00
tblAreaCoating	Area_Nonresidential_Interior	104544	0
tblAreaCoating	Area_Residential_Exterior	255150	0
tblAreaCoating	Area_Residential_Interior	765450	0
tblAreaMitigation	UseLowVOCPaintNonresidentialExterior	250	0
tblAreaMitigation	UseLowVOCPaintNonresidentialInterior	250	0

tblAreaMitigation	UseLowVOCPaintResidentialExteriorVal	250		0
tblAreaMitigation	UseLowVOCPaintResidentialInteriorVal	250		0
tblConstructionPhase	NumDays	75.00		130.00
tblConstructionPhase	NumDays	1,110.00		218.00
tblConstructionPhase	NumDays	110.00		130.00
tblConstructionPhase	NumDays	75.00		130.00
tblConstructionPhase	PhaseEndDate	6/28/2024		12/31/2023
tblConstructionPhase	PhaseEndDate	5/30/2024		12/31/2023
tblConstructionPhase	PhaseEndDate	6/28/2024		12/31/2023
tblConstructionPhase	PhaseEndDate	12/28/2023		7/31/2023
tblConstructionPhase	PhaseStartDate	1/1/2024		7/1/2023
tblConstructionPhase	PhaseStartDate	8/1/2023		3/1/2023
tblConstructionPhase	PhaseStartDate	1/1/2024		7/1/2023
tblConstructionPhase	PhaseStartDate	7/1/2023		2/1/2023
tblGrading	AcresOfGrading	910.00		78.60
tblGrading	MaterialExported	0.00		831,453.00
tblGrading	MaterialImported	0.00		831,453.00
tblLandUse	LotAcreage	68.18		58.70
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00		2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00		2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00		4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00		6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00		2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00		2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00		4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00		4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00		4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00		2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00		6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00		6.00

tb\OffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	6.00
tb\OffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tb\ProjectCharacteristics	OperationalYear	2014	2024
tb\TripsAndVMT	HaulingTripLength	20.00	0.25
tb\TripsAndVMT	VendorTripNumber	34.00	68.00
tb\TripsAndVMT	WorkerTripNumber	55.00	56.00
tb\TripsAndVMT	WorkerTripNumber	105.00	210.00
tb\TripsAndVMT	WorkerTripNumber	55.00	56.00
tb\TripsAndVMT	WorkerTripNumber	21.00	42.00

2.0 Emissions Summary

2.1 Overall Construction

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
	tons/yr															
2023	5.1209	14.4907	29.5123	0.0322	1.2881	0.5935	1.8816	0.5460	0.5506	1.0966	0.0000	2,688.712	2,688.7125	0.6392	0.0000	2,702.1347
Total	5.1209	14.4907	29.5123	0.0322	1.2881	0.5935	1.8816	0.5460	0.5506	1.0966	0.0000	2,688.712	2,688.7125	0.6392	0.0000	2,702.1347
	MT/yr															

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
	tons/yr															
	MT/yr															

2023	5.1209	14.4907	29.5123	0.0322	0.7139	0.5935	1.3074	0.2700	0.5506	0.8206	0.0000	2,688.710	2,688.7100	0.6392	0.0000	2,702.1322
Total	5.1209	14.4907	29.5123	0.0322	0.7139	0.5935	1.3074	0.2700	0.5506	0.8206	0.0000	2,688.710	2,688.7100	0.6392	0.0000	2,702.1322

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	44.58	0.00	30.52	50.55	0.00	25.17	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading	Grading	1/1/2023	6/30/2023	5	130	
2	Utilities	Trenching	12/1/2023	7/31/2023	5	129	
3	Building Construction	Building Construction	13/1/2023	12/31/2023	5	218	
4	Paving	Paving	17/1/2023	12/31/2023	5	130	
5	Architectural Coating	Architectural Coating	17/1/2023	12/31/2023	5	130	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 78.6

Acres of Paving: 0

Residential Indoor: 765,450; Residential Outdoor: 255,150; Non-Residential Indoor: 104,544; Non-Residential Outdoor: 34,848

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Excavators	4	8.00	162	0.38
Grading	Graders	2	8.00	174	0.41
Grading	Off-Highway Trucks	2	8.00	400	0.38

Grading	Rubber Tired Dozers	2	8.00	255	0.40
Grading	Scrapers	6	8.00	361	0.48
Grading	Tractors/Loaders/Backhoes	6	8.00	97	0.37
Utilities	Excavators	4	8.00	162	0.38
Utilities	Sweepers/Scrubbers	2	8.00	64	0.46
Utilities	Trenchers	2	8.00	80	0.50
Building Construction	Cranes	2	7.00	226	0.29
Building Construction	Forklifts	6	8.00	89	0.20
Building Construction	Generator Sets	2	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	6	7.00	97	0.37
Building Construction	Welders	2	8.00	46	0.45
Paving	Cement and Mortar Mixers	8	8.00	9	0.56
Paving	Pavers	4	8.00	125	0.42
Paving	Paving Equipment	4	8.00	130	0.36
Paving	Rollers	4	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	2	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
Grading	22	56.00	0.00	207,863.00	10.80	7.30	0.25	LD_Mix	HDT_Mix	HHDT
Utilities	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	18	210.00	68.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	22	56.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	2	42.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Grading - 2023

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					0.9414	0.0000	0.9414	0.4525	0.0000	0.4525	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.6445	6.2623	5.9448	0.0121	0.2701	0.2701	0.2701	0.2485	0.2485	0.2485	0.0000	1,062.1877	1,062.1877	0.3435	0.0000	1,069.4019
Total	0.6445	6.2623	5.9448	0.0121	0.9414	0.2701	1.2115	0.4525	0.2485	0.7010	0.0000	1,062.1877	1,062.1877	0.3435	0.0000	1,069.4019

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	0.6570	1.8133	14.4152	2.9400e-003	0.0243	7.8500e-003	0.0322	6.8600e-003	7.2200e-003	0.0141	0.0000	231.8845	231.8845	6.5900e-003	0.0000	232.0229
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	7.8100e-003	9.9300e-003	0.0933	3.6000e-004	0.0292	2.2000e-004	0.0294	7.7600e-003	2.0000e-004	7.9600e-003	0.0000	22.1713	22.1713	9.8000e-004	0.0000	22.1919
Total	0.6648	1.8233	14.5085	3.3000e-003	0.0535	8.0700e-003	0.0616	0.0146	7.4200e-003	0.0220	0.0000	254.0557	254.0557	7.5700e-003	0.0000	254.2148

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
tons/yr																
MIT/yr																
Fugitive Dust					0.3671	0.0000	0.3671	0.1765	0.0000	0.1765	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.6445	6.2623	5.9448	0.0121	0.2701	0.2701	0.2701	0.2485	0.2485	0.2485	0.0000	1,062.1865	1,062.1865	0.3435	0.0000	1,069.4007
Total	0.6445	6.2623	5.9448	0.0121	0.3671	0.2701	0.6373	0.1765	0.2485	0.4250	0.0000	1,062.1865	1,062.1865	0.3435	0.0000	1,069.4007

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
tons/yr																
MIT/yr																
Hauling	0.6570	1.8133	14.4152	2.9400e-003	0.0243	7.8500e-003	0.0322	6.8600e-003	7.2200e-003	0.0141	0.0000	231.8845	231.8845	6.5900e-003	0.0000	232.0229
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	7.8100e-003	9.9300e-003	0.0933	3.6000e-004	0.0292	2.2000e-004	0.0294	7.7600e-003	2.0000e-004	7.9600e-003	0.0000	22.1713	22.1713	9.8000e-004	0.0000	22.1919
Total	0.6648	1.8233	14.5085	3.3000e-003	0.0535	8.0700e-003	0.0616	0.0146	7.4200e-003	0.0220	0.0000	254.0557	254.0557	7.5700e-003	0.0000	254.2148

3.3 Utilities - 2023

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																
MIT/yr																
Off-Road	0.1193	1.0575	1.4522	2.1400e-003	0.0638	0.0638	0.0638	0.0587	0.0587	0.0587	0.0000	188.0971	188.0971	0.0608	0.0000	189.3746

Total	0.1193	1.0575	1.4522	2.1400e-003	0.0638	0.0638	0.0587	0.0587	0.0000	188.0971	188.0971	0.0608	0.0000	189.3746
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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	2.7700e-003	3.5200e-003	0.0331	1.3000e-004	0.0103	8.0000e-005	0.0104	2.7500e-003	7.0000e-005	2.8200e-003	0.0000	7.8574	7.8574	3.5000e-004	0.0000	0.0000	7.8647
Total	2.7700e-003	3.5200e-003	0.0331	1.3000e-004	0.0103	8.0000e-005	0.0104	2.7500e-003	7.0000e-005	2.8200e-003	0.0000	7.8574	7.8574	3.5000e-004	0.0000	0.0000	7.8647

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
Off-Road	0.1193	1.0575	1.4522	2.1400e-003	0.0638	0.0638	0.0587	0.0587	0.0000	188.0969	188.0969	0.0608	0.0000	189.3744	
Total	0.1193	1.0575	1.4522	2.1400e-003	0.0638	0.0638	0.0587	0.0587	0.0000	188.0969	188.0969	0.0608	0.0000	189.3744	

Mitigated Construction Off-Site

3.5 Paving - 2023

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	0.1819	1.6909	2.3075	3.6800e-003	0.0824	0.0824	0.0824	0.0764	0.0764	0.0764	0.0000	314.2064	314.2064	0.0964	0.0000	316.2305
Paving	0.0000				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	0.1819	1.6909	2.3075	3.6800e-003	0.0824	0.0824	0.0824	0.0764	0.0764	0.0764	0.0000	314.2064	314.2064	0.0964	0.0000	316.2305

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	7.8100e-003	9.9300e-003	0.0933	3.6000e-004	0.0292	2.2000e-004	0.0294	7.7600e-003	2.0000e-004	7.9600e-003	0.0000	22.1713	22.1713	9.8000e-004	0.0000	22.1919
Total	7.8100e-003	9.9300e-003	0.0933	3.6000e-004	0.0292	2.2000e-004	0.0294	7.7600e-003	2.0000e-004	7.9600e-003	0.0000	22.1713	22.1713	9.8000e-004	0.0000	22.1919

Mitigated Construction On-Site

Off-Road	0.0249	0.1694	0.2355	3.9000e-004	9.2100e-003	9.2100e-003	9.2100e-003	9.2100e-003	9.2100e-003	0.0000	33.1923	33.1923	1.9900e-003	0.0000	33.2340
Total	3.0492	0.1694	0.2355	3.9000e-004	9.2100e-003	9.2100e-003	9.2100e-003	9.2100e-003	9.2100e-003	0.0000	33.1923	33.1923	1.9900e-003	0.0000	33.2340

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	0.0000	0.0000	0.0000	0.0000	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	5.8600e-003	7.4500e-003	0.0700	2.7000e-004	0.0219	1.6000e-004	0.0221	5.8200e-003	1.5000e-004	5.9700e-003	0.0000	16.6284	16.6284	7.4000e-004	0.0000	16.6439
Total	5.8600e-003	7.4500e-003	0.0700	2.7000e-004	0.0219	1.6000e-004	0.0221	5.8200e-003	1.5000e-004	5.9700e-003	0.0000	16.6284	16.6284	7.4000e-004	0.0000	16.6439

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
	tons/yr															
Archit. Coating	3.0243					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0249	0.1694	0.2354	3.9000e-004	9.2100e-003	9.2100e-003	9.2100e-003	9.2100e-003	9.2100e-003	9.2100e-003	0.0000	33.1923	33.1923	1.9900e-003	0.0000	33.2340
Total	3.0492	0.1694	0.2354	3.9000e-004	9.2100e-003	9.2100e-003	9.2100e-003	9.2100e-003	9.2100e-003	9.2100e-003	0.0000	33.1923	33.1923	1.9900e-003	0.0000	33.2340

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
	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.8600e-003	7.4500e-003	0.0700	2.7000e-004	0.0219	1.6000e-004	0.0221	5.8200e-003	1.5000e-004	5.9700e-003	0.0000	16.6284	16.6284	7.4000e-004	0.0000	16.6439
Total	5.8600e-003	7.4500e-003	0.0700	2.7000e-004	0.0219	1.6000e-004	0.0221	5.8200e-003	1.5000e-004	5.9700e-003	0.0000	16.6284	16.6284	7.4000e-004	0.0000	16.6439

Otay Ranch Resort Village Year 9 Construction

San Diego Air Basin, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
City Park	1.60	Acre	1.60	69,696.00	0
Single Family Housing	210.00	Dwelling Unit	58.70	378,000.00	601

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2024

Utility Company

CO2 Intensity (lb/MW/hr)	0	CH4 Intensity (lb/MW/hr)	0	N2O Intensity (lb/MW/hr)	0
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1.3 User Entered Comments & Non-Default Data

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	150.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	100.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	150.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	100.00
tblAreaCoating	Area_Nonresidential_Interior	104544	0
tblAreaCoating	Area_Residential_Exterior	255150	0
tblAreaCoating	Area_Residential_Interior	765450	0
tblAreaMitigation	UseLowVOCPaintNonresidentialExterior	250	0
tblAreaMitigation	UseLowVOCPaintNonresidentialInterior	250	0

tblAreaMitigation	UseLowVOCPaintResidentialExteriorVal	250		0
tblAreaMitigation	UseLowVOCPaintResidentialInteriorVal	250		0
tblConstructionPhase	NumDays	75.00		130.00
tblConstructionPhase	NumDays	1,110.00		218.00
tblConstructionPhase	NumDays	110.00		130.00
tblConstructionPhase	NumDays	75.00		130.00
tblConstructionPhase	PhaseEndDate	6/28/2024		12/31/2023
tblConstructionPhase	PhaseEndDate	5/30/2024		12/31/2023
tblConstructionPhase	PhaseEndDate	6/28/2024		12/31/2023
tblConstructionPhase	PhaseEndDate	12/28/2023		7/31/2023
tblConstructionPhase	PhaseStartDate	1/1/2024		7/1/2023
tblConstructionPhase	PhaseStartDate	8/1/2023		3/1/2023
tblConstructionPhase	PhaseStartDate	1/1/2024		7/1/2023
tblConstructionPhase	PhaseStartDate	7/1/2023		2/1/2023
tblGrading	AcresOfGrading	910.00		78.60
tblGrading	MaterialExported	0.00		831,453.00
tblGrading	MaterialImported	0.00		831,453.00
tblLandUse	LotAcreage	68.18		58.70
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00		2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00		2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00		4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00		6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00		2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00		2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00		4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00		4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00		4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00		2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00		6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00		6.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblProjectCharacteristics	OperationalYear	2014	2024
tblTripsAndVMT	Hauling TripLength	20.00	0.25
tblTripsAndVMT	Vendor TripNumber	34.00	68.00
tblTripsAndVMT	Worker TripNumber	55.00	56.00
tblTripsAndVMT	Worker TripNumber	105.00	210.00
tblTripsAndVMT	Worker TripNumber	55.00	56.00
tblTripsAndVMT	Worker TripNumber	21.00	42.00

2.0 Emissions Summary

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
2023	55.8787	172.1198	329.1068	0.3643	17.6650	6.7274	24.3923	7.8212	6.2187	14.0399	0.0000	33,883.55	33,883.5571	8.2760	0.0000	34,057.353
Total	55.8787	172.1198	329.1068	0.3643	17.6650	6.7274	24.3923	7.8212	6.2187	14.0399	0.0000	73	33,883.557	8.2760	0.0000	34,057.353

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
lb/day																

2023	55.8787	172.1198	329.1068	0.3643	8.8304	6.7274	15.5578	3.5744	6.2187	9.7931	0.0000	33,883.55	33,883.5571	8.2760	0.0000	134,057.353
Total	55.8787	172.1198	329.1068	0.3643	8.8304	6.7274	15.5578	3.5744	6.2187	9.7931	0.0000	33,883.55	33,883.5571	8.2760	0.0000	134,057.353

ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
0.00	0.00	0.00	0.00	50.01	0.00	36.22	54.30	0.00	30.25	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading	Grading	1/1/2023	6/30/2023	5	130	
2	Utilities	Trenching	2/1/2023	7/31/2023	5	129	
3	Building Construction	Building Construction	3/1/2023	12/31/2023	5	218	
4	Paving	Paving	7/1/2023	12/31/2023	5	130	
5	Architectural Coating	Architectural Coating	7/1/2023	12/31/2023	5	130	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 78.6

Acres of Paving: 0

Residential Indoor: 765,450; Residential Outdoor: 255,150; Non-Residential Indoor: 104,544; Non-Residential Outdoor: 34,848

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Excavators	4	8.00	162	0.38
Grading	Graders	2	8.00	174	0.41
Grading	Off-Highway Trucks	2	8.00	400	0.38

Grading	Rubber Tired Dozers	2	8.00	255	0.40
Grading	Scrapers	6	8.00	361	0.48
Grading	Tractors/Loaders/Backhoes	6	8.00	97	0.37
Utilities	Excavators	4	8.00	162	0.38
Utilities	Sweepers/Scrubbers	2	8.00	64	0.46
Utilities	Trenchers	2	8.00	80	0.50
Building Construction	Cranes	2	7.00	226	0.29
Building Construction	Forklifts	6	8.00	89	0.20
Building Construction	Generator Sets	2	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	6	7.00	97	0.37
Building Construction	Welders	2	8.00	46	0.45
Paving	Cement and Mortar Mixers	8	8.00	9	0.56
Paving	Pavers	4	8.00	125	0.42
Paving	Paving Equipment	4	8.00	130	0.36
Paving	Rollers	4	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	2	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
Grading	22	56.00	0.00	207,863.00	10.80	7.30	0.25	LD_Mix	HDT_Mix	HHDT
Utilities	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	18	210.00	68.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	22	56.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	2	42.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Grading - 2023

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					14.4828	0.0000	14.4828	6.9619	0.0000	6.9619			0.0000			0.0000
Off-Road	9.9159	96.3426	91.4578	0.1860	4.1559	4.1559	4.1559	3.8234	3.8234	3.8234	18,013.251	46	18,013.254	5.8259		18,135.597
Total	9.9159	96.3426	91.4578	0.1860	14.4828	4.1559	18.6388	6.9619	3.8234	10.7853	18,013.251	46	18,013.254	5.8259		18,135.597

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	8.9639	27.5137	169.5104	0.0456	0.3814	0.1157	0.4971	0.1074	0.1064	0.2138			4,042.951	0.1060		4,045.1778
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	0.1237	0.1385	1.5118	5.8400e-003	0.4600	3.3600e-003	0.4634	0.1220	3.1200e-003	0.1251			396.5829	0.0167		396.9333
Total	9.0876	27.6522	171.0223	0.0515	0.8414	0.1190	0.9605	0.2294	0.1096	0.3390			4,439.534	0.1227		4,442.1111

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					5.6483	0.0000	5.6483	2.7151	0.0000	2.7151			0.0000			0.0000
Off-Road	9.9159	96.3426	91.4578	0.1860	4.1559	4.1559	4.1559	3.8234	3.8234	3.8234	0.0000	18,013.25	18,013.254	5.8259		18,135.597
Total	9.9159	96.3426	91.4578	0.1860	5.6483	4.1559	9.8042	2.7151	3.8234	6.5386	0.0000	18,013.25	18,013.254	5.8259		18,135.597
lb/day																

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	8.9639	27.5137	169.5104	0.0456	0.3814	0.1157	0.4971	0.1074	0.1064	0.2138			4,042.951	0.1060		4,045.1778
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	0.1237	0.1385	1.5118	5.8400e-003	0.4600	3.3600e-003	0.4634	0.1220	3.1200e-003	0.1251			396.5829	0.0167		396.9333
Total	9.0876	27.6522	171.0223	0.0515	0.8414	0.1190	0.9605	0.2294	0.1096	0.3390			4,439.534	0.1227		4,442.1111
lb/day																

3.3 Utilities - 2023
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	1.8490	16.3952	22.5152	0.0332	0.9886	0.9886	0.9886	0.9095	0.9095	0.9095			3,214.598	1.0397		3,236.4312
Total	1.8490	16.3952	22.5152	0.0332	0.9886	0.9886	0.9886	0.9095	0.9095	0.9095			3,214.598	1.0397		3,236.4312
lb/day																

Total	1.8490	16.3952	22.5152	0.0332	0.9886	0.9095	0.9095	3,214.5982	1.0397	3,236.4312
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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		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
Worker	0.0442	0.0495	0.5399	2.0800e-003	0.1643	1.2000e-003	0.1655	0.0436	1.1100e-003	0.0447	141.6367	141.6367	5.9600e-003	1.0397		141.7619
Total	0.0442	0.0495	0.5399	2.0800e-003	0.1643	1.2000e-003	0.1655	0.0436	1.1100e-003	0.0447	141.6367	141.6367	5.9600e-003	1.0397		141.7619

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	1.8490	16.3952	22.5152	0.0332	0.9886	0.9886	0.9886	0.9095	0.9095	0.9095	0.0000	3,214.5982	3,214.5982	1.0397		3,236.4312
Total	1.8490	16.3952	22.5152	0.0332	0.9886	0.9886	0.9886	0.9095	0.9095	0.9095	0.0000	3,214.5982	3,214.5982	1.0397		3,236.4312

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	0.0442	0.0495	0.5399	2.0800e-003	0.1643	1.2000e-003	0.1655	0.0436	1.1100e-003	0.0447	141.6367	141.6367	141.6367	5.9600e-003	141.7619	141.7619
Total	0.0442	0.0495	0.5399	2.0800e-003	0.1643	1.2000e-003	0.1655	0.0436	1.1100e-003	0.0447	141.6367	141.6367	141.6367	5.9600e-003	141.7619	141.7619

3.4 Building Construction - 2023

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	3.1322	28.6253	32.4185	0.0537	1.3934	1.3934	1.3934	1.3113	1.3113	1.3113	5,089.252	5	5,089.2525	1.2088	5	5,114.6382
Total	3.1322	28.6253	32.4185	0.0537	1.3934	1.3934	1.3934	1.3113	1.3113	1.3113	5,089.252	5	5,089.2525	1.2088	5	5,114.6382

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	0.0000	0.0000	0.0000	0.0000	0.0000	
Vendor	0.4635	2.5357	5.4838	0.0160	0.4513	0.0566	0.5079	0.1287	0.0521	0.1808	1,498.094	1,498.0949	0.0105	1,498.3142								
Worker	0.4638	0.5194	5.6694	0.0219	1.7251	0.0126	1.7377	0.4576	0.0117	0.4693	1,487.185	1,487.1858	0.0626	1,488.4997								
Total	0.9273	3.0551	11.1532	0.0379	2.1764	0.0692	2.2456	0.5863	0.0638	0.6501	2,985.280	2,985.2807	0.0730	2,986.8139								

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
Off-Road	3.1322	28.6253	32.4185	0.0537	1.3934	1.3934	1.3934	1.3113	1.3113	1.3113	0.0000	5,089.252	5,089.2525	1.2088		5,114.6382
Total	3.1322	28.6253	32.4185	0.0537	1.3934	1.3934	1.3934	1.3113	1.3113	1.3113	0.0000	5,089.252	5,089.2525	1.2088		5,114.6382

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
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
Vendor	0.4635	2.5357	5.4838	0.0160	0.4513	0.0566	0.5079	0.1287	0.0521	0.1808	1,498.094	1,498.0949	0.0105	1,498.3142		1,498.3142
Worker	0.4638	0.5194	5.6694	0.0219	1.7251	0.0126	1.7377	0.4576	0.0117	0.4693	1,487.185	1,487.1858	0.0626	1,488.4997		1,488.4997
Total	0.9273	3.0551	11.1532	0.0379	2.1764	0.0692	2.2456	0.5863	0.0638	0.6501	2,985.280	2,985.2807	0.0730	2,986.8139		2,986.8139

3.5 Paving - 2023

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	2.7984	26.0133	35.4994	0.0566	1.2682	1.2682	1.2682	1.1759	1.1759	1.1759		5,328.5113	5,328.5113	1.6346		5,362.8379
Paving	0.0000				0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		3	0.0000			0.0000
Total	2.7984	26.0133	35.4994	0.0566	1.2682	1.2682	1.2682	1.1759	1.1759	1.1759		5,328.5113	5,328.5113	1.6346		5,362.8379

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	0.0000	0.0000	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	0.1237	0.1385	1.5118	5.8400e-003	0.4600	3.3600e-003	0.4634	0.1220	3.1200e-003	0.1251		396.5829	396.5829	0.0167		396.9333
Total	0.1237	0.1385	1.5118	5.8400e-003	0.4600	3.3600e-003	0.4634	0.1220	3.1200e-003	0.1251		396.5829	396.5829	0.0167		396.9333

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	2.7984	26.0133	35.4994	0.0566	1.2682	1.2682	1.2682	1.1759	1.1759	1.1759	0.0000	5,328.5113	5,328.5113	1.6346		5,362.8379
Paving	0.0000				0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		3	0.0000			0.0000
Total	2.7984	26.0133	35.4994	0.0566	1.2682	1.2682	1.2682	1.1759	1.1759	1.1759	0.0000	5,328.5113	5,328.5113	1.6346		5,362.8379

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	0.0000	0.0000	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	0.1237	0.1385	1.5118	5.8400e-003	0.4600	3.3600e-003	0.4634	0.1220	3.1200e-003	0.1251		396.5829	396.5829	0.0167		396.9333
Total	0.1237	0.1385	1.5118	5.8400e-003	0.4600	3.3600e-003	0.4634	0.1220	3.1200e-003	0.1251		396.5829	396.5829	0.0167		396.9333

3.6 Architectural Coating - 2023
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															
Archit. Coating	46.5280				0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000

Off-Road	0.3833	2.6060	3.6222	5.9400e-003	0.1416	0.1416	0.1416	0.1416	0.0337	562.8961	562.8961	0.0337	563.6033
Total	46.9113	2.6060	3.6222	5.9400e-003	0.1416	0.1416	0.1416	0.1416	0.0337	562.8961	562.8961	0.0337	563.6033

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	0.0928	0.1039	1.1339	4.3800e-003	0.3450	2.5200e-003	0.3475	0.0915	2.3400e-003	0.0939	297.4372	297.4372	297.4372	0.0125	297.6999	297.6999
Total	0.0928	0.1039	1.1339	4.3800e-003	0.3450	2.5200e-003	0.3475	0.0915	2.3400e-003	0.0939	297.4372	297.4372	297.4372	0.0125	297.6999	297.6999

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	46.5280					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3833	2.6060	3.6222	5.9400e-003	0.1416	0.1416	0.1416	0.1416	0.1416	0.1416	0.0000	562.8961	562.8961	0.0337		563.6033
Total	46.9113	2.6060	3.6222	5.9400e-003	0.1416	0.1416	0.1416	0.1416	0.1416	0.1416	0.0000	562.8961	562.8961	0.0337		563.6033

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
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	0.0928	0.1039	1.1339	4.3800e-003	0.3450	2.5200e-003	0.3475	0.0915	2.3400e-003	0.0939	297.4372	297.4372	297.4372	0.0125	0.0000	297.6999
Total	0.0928	0.1039	1.1339	4.3800e-003	0.3450	2.5200e-003	0.3475	0.0915	2.3400e-003	0.0939	297.4372	297.4372	297.4372	0.0125		297.6999

Otay Ranch Resort Village Year 10 Construction San Diego Air Basin, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	100.00	Dwelling Unit	28.00	180,000.00	286

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2025

Utility Company

CO2 Intensity (lb/MW/hr)	0	CH4 Intensity (lb/MW/hr)	0	N2O Intensity (lb/MW/hr)	0
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1.3 User Entered Comments & Non-Default Data

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	150.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	100.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	150.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	100.00
tblAreaCoating	Area_Residential_Exterior	121500	0
tblAreaCoating	Area_Residential_Interior	364500	0
tblAreaMitigation	UseLowVOCPaintNonresidentialExterior	250	0
tblAreaMitigation	UseLowVOCPaintNonresidentialInterior	250	0
tblAreaMitigation	UseLowVOCPaintResidentialExterior	250	0
tblAreaMitigation	UseLowVOCPaintResidentialInterior	250	0

tblConstructionPhase	NumDays	35.00	132.00
tblConstructionPhase	NumDays	440.00	218.00
tblConstructionPhase	NumDays	45.00	130.00
tblConstructionPhase	NumDays	35.00	132.00
tblConstructionPhase	PhaseEndDate	7/3/2025	12/31/2024
tblConstructionPhase	PhaseEndDate	6/2/2025	12/31/2024
tblConstructionPhase	PhaseEndDate	6/28/2024	6/30/2024
tblConstructionPhase	PhaseEndDate	7/3/2025	12/31/2024
tblConstructionPhase	PhaseEndDate	12/27/2024	7/31/2024
tblConstructionPhase	PhaseStartDate	1/1/2025	7/1/2024
tblConstructionPhase	PhaseStartDate	8/1/2024	3/1/2024
tblConstructionPhase	PhaseStartDate	1/1/2025	7/1/2024
tblConstructionPhase	PhaseStartDate	7/1/2024	2/1/2024
tblGrading	AcresOfGrading	910.00	36.40
tblGrading	MaterialExported	0.00	385,049.00
tblGrading	MaterialImported	0.00	385,049.00
tblLandUse	LotAcreage	32.47	28.00
tblOffRoadEquipment	HorsePower	400.00	189.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	6.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblProjectCharacteristics	OperationalYear	2014	2025
tblTripsAndVMT	HaulingTripLength	20.00	0.25
tblTripsAndVMT	VendorTripNumber	11.00	22.00
tblTripsAndVMT	WorkerTripNumber	55.00	56.00
tblTripsAndVMT	WorkerTripNumber	36.00	72.00
tblTripsAndVMT	WorkerTripNumber	55.00	56.00
tblTripsAndVMT	WorkerTripNumber	7.00	14.00

2.0 Emissions Summary

2.1 Overall Construction

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
	tons/yr															
2024	2.8114	12.2174	20.1694	0.0270	1.0227	0.5226	1.5453	0.4853	0.4848	0.9702	0.0000	2,293.792	2,293.7923	0.6075	0.0000	2,306.5506
Total	2.8114	12.2174	20.1694	0.0270	1.0227	0.5226	1.5453	0.4853	0.4848	0.9702	0.0000	2,293.792	2,293.7923	0.6075	0.0000	2,306.5506
	MIT/yr															

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
	tons/yr															
	MIT/yr															

2024	2.8114	12.2174	20.1694	0.0270	0.5004	0.5226	1.0230	0.2166	0.4848	0.7014	0.0000	2,293.789	12,293.7899	0.6075	0.0000	2,306.5481
Total	2.8114	12.2174	20.1694	0.0270	0.5004	0.5226	1.0230	0.2166	0.4848	0.7014	0.0000	2,293.789	12,293.7899	0.6075	0.0000	2,306.5481

ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
0.00	0.00	0.00	0.00	51.07	0.00	33.80	55.38	0.00	27.70	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading	Grading	1/1/2024	6/30/2024	5	130	
2	Utilities	Trenching	12/1/2024	7/31/2024	5	130	
3	Building Construction	Building Construction	13/1/2024	12/31/2024	5	218	
4	Paving	Paving	17/1/2024	12/31/2024	5	132	
5	Architectural Coating	Architectural Coating	17/1/2024	12/31/2024	5	132	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 36.4

Acres of Paving: 0

Residential Indoor: 364,500; Residential Outdoor: 121,500; Non-Residential Indoor: 0; Non-Residential Outdoor: 0 (Architectural Coating)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Excavators	4	8.00	162	0.38
Grading	Graders	2	8.00	174	0.41
Grading	Off-Highway Trucks	2	8.00	189	0.38

Grading	Rubber Tired Dozers	2	8.00	255	0.40
Grading	Scrapers	6	8.00	361	0.48
Grading	Tractors/Loaders/Backhoes	6	8.00	97	0.37
Utilities	Excavators	4	8.00	162	0.38
Utilities	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Utilities	Trenchers	2	8.00	80	0.50
Building Construction	Cranes	2	7.00	226	0.29
Building Construction	Forklifts	6	8.00	89	0.20
Building Construction	Generator Sets	2	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	6	7.00	97	0.37
Building Construction	Welders	2	8.00	46	0.45
Paving	Cement and Mortar Mixers	8	8.00	9	0.56
Paving	Pavers	4	8.00	125	0.42
Paving	Paving Equipment	4	8.00	130	0.36
Paving	Rollers	4	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	2	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
Grading	22	56.00	0.00	96,262.00	10.80	7.30	0.25	LD_Mix	HDT_Mix	HHDT
Utilities	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	18	72.00	22.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	22	56.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	2	14.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Grading - 2024

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					0.8563	0.0000	0.8563	0.4406	0.0000	0.4406	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.5860	5.5806	5.6087	0.0112		0.2415	0.2415	0.2222	0.0000	0.2222	0.0000	981.8115	981.8115	0.3175	0.0000	988.4798
Total	0.5860	5.5806	5.6087	0.0112	0.8563	0.2415	1.0978	0.4406	0.2222	0.6628	0.0000	981.8115	981.8115	0.3175	0.0000	988.4798

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	0.2728	0.8212	6.2956	1.3500e-003	0.0113	3.6200e-003	0.0149	3.1800e-003	3.3300e-003	6.5100e-003	0.0000	107.3827	107.3827	3.0600e-003	0.0000	107.4469
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	7.4700e-003	9.4500e-003	0.0889	3.6000e-004	0.0292	2.2000e-004	0.0294	7.7600e-003	2.0000e-004	7.9600e-003	0.0000	21.8689	21.8689	9.5000e-004	0.0000	21.8889
Total	0.2803	0.8306	6.3845	1.7100e-003	0.0405	3.8400e-003	0.0443	0.0109	3.5300e-003	0.0145	0.0000	129.2516	129.2516	4.0100e-003	0.0000	129.3358

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
	tons/yr															
	MT/yr															
Fugitive Dust					0.3340	0.0000	0.3340	0.1718	0.0000	0.1718	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.5860	5.5806	5.6087	0.0112	0.2415	0.2415	0.2415	0.2222	0.2222	0.2222	0.0000	981.8103	981.8103	0.3175	0.0000	988.4786
Total	0.5860	5.5806	5.6087	0.0112	0.3340	0.2415	0.5755	0.1718	0.2222	0.3940	0.0000	981.8103	981.8103	0.3175	0.0000	988.4786

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
	tons/yr															
	MT/yr															
Hauling	0.2728	0.8212	6.2956	1.3500e-003	0.0113	3.6200e-003	0.0149	3.1800e-003	3.3300e-003	6.5100e-003	0.0000	107.3827	107.3827	3.0600e-003	0.0000	107.4469
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	7.4700e-003	9.4500e-003	0.0889	3.6000e-004	0.0292	2.2000e-004	0.0294	7.7600e-003	2.0000e-004	7.9600e-003	0.0000	21.8689	21.8689	9.5000e-004	0.0000	21.8889
Total	0.2803	0.8306	6.3845	1.7100e-003	0.0405	3.8400e-003	0.0443	0.0109	3.5300e-003	0.0145	0.0000	129.2516	129.2516	4.0100e-003	0.0000	129.3358

3.3 Utilities - 2024

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															
	MT/yr															
Off-Road	0.1121	0.9835	1.5067	2.2300e-003	0.0562	0.0562	0.0562	0.0517	0.0517	0.0517	0.0000	196.1450	196.1450	0.0634	0.0000	197.4772

Total	0.1121	0.9835	1.5067	2.2300e-003	0.0562	0.0562	0.0517	0.0517	0.0000	196.1450	196.1450	0.0634	0.0000	197.4772
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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															
	MT/yr															
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.6700e-003	3.3800e-003	0.0317	1.3000e-004	0.0104	8.0000e-005	0.0105	2.7700e-003	7.0000e-005	2.8400e-003	0.0000	7.8103	7.8103	3.4000e-004	0.0000	7.8175
Total	2.6700e-003	3.3800e-003	0.0317	1.3000e-004	0.0104	8.0000e-005	0.0105	2.7700e-003	7.0000e-005	2.8400e-003	0.0000	7.8103	7.8103	3.4000e-004	0.0000	7.8175

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
	tons/yr															
	MT/yr															
Off-Road	0.1121	0.9835	1.5067	2.2300e-003	0.0562	0.0562	0.0562	0.0517	0.0517	0.0517	0.0000	196.1448	196.1448	0.0634	0.0000	197.4770
Total	0.1121	0.9835	1.5067	2.2300e-003	0.0562	0.0562	0.0562	0.0517	0.0517	0.0517	0.0000	196.1448	196.1448	0.0634	0.0000	197.4770

Mitigated Construction Off-Site

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	0.0000	0.0000	0.0000
Vendor	0.0165	0.0906	0.2287	5.6000e-004	0.0156	2.0100e-003	0.0176	4.4600e-003	1.8500e-003	6.3100e-003	0.0000	47.7666	47.7666	3.4000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	47.7738
Worker	0.0161	0.0204	0.1916	7.8000e-004	0.0629	4.7000e-004	0.0634	0.0167	4.4000e-004	0.0172	0.0000	47.1504	47.1504	2.0500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	47.1934
Total	0.0326	0.1110	0.4203	1.3400e-003	0.0785	2.4800e-003	0.0810	0.0212	2.2900e-003	0.0235	0.0000	94.9170	94.9170	2.3900e-003	0.0000	0.0000	0.0000	0.0000	0.0000	94.9672

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
tons/yr																
Off-Road	0.3194	2.9163	3.5170	5.8500e-003	0.1331	0.1331	0.1331	0.1252	0.1252	0.1252	0.0000	503.3374	503.3374	0.1188	0.0000	505.9331
Total	0.3194	2.9163	3.5170	5.8500e-003	0.1331	0.1331	0.1331	0.1252	0.1252	0.1252	0.0000	503.3374	503.3374	0.1188	0.0000	505.9331

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
tons/yr																
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0165	0.0906	0.2287	5.6000e-004	0.0156	2.0100e-003	0.0176	4.4600e-003	1.8500e-003	6.3100e-003	0.0000	47.7666	47.7666	3.4000e-004	0.0000	47.7738
Worker	0.0161	0.0204	0.1916	7.8000e-004	0.0629	4.7000e-004	0.0634	0.0167	4.4000e-004	0.0172	0.0000	47.1504	47.1504	2.0500e-003	0.0000	47.1934
Total	0.0326	0.1110	0.4203	1.3400e-003	0.0785	2.4800e-003	0.0810	0.0212	2.2900e-003	0.0235	0.0000	94.9170	94.9170	2.3900e-003	0.0000	94.9672

3.5 Paving - 2024

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	0.1779	1.6191	2.3489	3.7300e-003	0.0771	0.0771	0.0771	0.0715	0.0715	0.0715	0.0000	319.0592	319.0592	0.0979	0.0000	321.1146
Paving	0.0000				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	0.1779	1.6191	2.3489	3.7300e-003	0.0771	0.0771	0.0771	0.0715	0.0715	0.0715	0.0000	319.0592	319.0592	0.0979	0.0000	321.1146

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	7.5800e-003	9.6000e-003	0.0902	3.7000e-004	0.0296	2.2000e-004	0.0299	7.8800e-003	2.1000e-004	8.0800e-003	0.0000	22.2054	22.2054	9.7000e-004	0.0000	22.2257
Total	7.5800e-003	9.6000e-003	0.0902	3.7000e-004	0.0296	2.2000e-004	0.0299	7.8800e-003	2.1000e-004	8.0800e-003	0.0000	22.2054	22.2054	9.7000e-004	0.0000	22.2257

Mitigated Construction On-Site

Off-Road	0.0239	0.1609	0.2389	3.9000e-004	8.0400e-003	8.0400e-003	8.0400e-003	8.0400e-003	8.0400e-003	0.0000	33.7030	33.7030	1.9000e-003	0.0000	33.7428
Total	1.2910	0.1609	0.2389	3.9000e-004	8.0400e-003	8.0400e-003	8.0400e-003	8.0400e-003	8.0400e-003	0.0000	33.7030	33.7030	1.9000e-003	0.0000	33.7428

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.9000e-003	2.4000e-003	0.0226	9.0000e-005	7.4100e-003	6.0000e-005	7.4700e-003	1.9700e-003	5.0000e-005	2.0200e-003	0.0000	5.5513	5.5513	2.4000e-004	0.0000	5.5564
Total	1.9000e-003	2.4000e-003	0.0226	9.0000e-005	7.4100e-003	6.0000e-005	7.4700e-003	1.9700e-003	5.0000e-005	2.0200e-003	0.0000	5.5513	5.5513	2.4000e-004	0.0000	5.5564
MT/yr																

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
tons/yr																
Archit. Coating	1.2671					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0239	0.1609	0.2389	3.9000e-004	8.0400e-003	8.0400e-003	8.0400e-003	8.0400e-003	8.0400e-003	8.0400e-003	0.0000	33.7029	33.7029	1.9000e-003	0.0000	33.7428
Total	1.2910	0.1609	0.2389	3.9000e-004	8.0400e-003	8.0400e-003	8.0400e-003	8.0400e-003	8.0400e-003	8.0400e-003	0.0000	33.7029	33.7029	1.9000e-003	0.0000	33.7428
MT/yr																

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.9000e-003	2.4000e-003	0.0226	9.0000e-005	7.4100e-003	6.0000e-005	7.4700e-003	1.9700e-003	5.0000e-005	2.0200e-003	0.0000	5.5513	5.5513	2.4000e-004	0.0000	5.5564
Total	1.9000e-003	2.4000e-003	0.0226	9.0000e-005	7.4100e-003	6.0000e-005	7.4700e-003	1.9700e-003	5.0000e-005	2.0200e-003	0.0000	5.5513	5.5513	2.4000e-004	0.0000	5.5564

Otay Ranch Resort Village Year 10 Construction

San Diego Air Basin, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	100.00	Dwelling Unit	28.00	180,000.00	286

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2025

Utility Company

CO2 Intensity (lb/MW/hr)	0	CH4 Intensity (lb/MW/hr)	0	N2O Intensity (lb/MW/hr)	0
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1.3 User Entered Comments & Non-Default Data

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	150.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	100.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	150.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	100.00
tblAreaCoating	Area_Residential_Exterior	121500	0
tblAreaCoating	Area_Residential_Interior	364500	0
tblAreaMitigation	UseLowVOCPaintNonresidentialExterior	250	0
tblAreaMitigation	UseLowVOCPaintNonresidentialInterior	250	0
tblAreaMitigation	UseLowVOCPaintResidentialExterior	250	0
tblAreaMitigation	UseLowVOCPaintResidentialInterior	250	0

tblConstructionPhase	NumDays	35.00	132.00
tblConstructionPhase	NumDays	440.00	218.00
tblConstructionPhase	NumDays	45.00	130.00
tblConstructionPhase	NumDays	35.00	132.00
tblConstructionPhase	PhaseEndDate	7/3/2025	12/31/2024
tblConstructionPhase	PhaseEndDate	6/2/2025	12/31/2024
tblConstructionPhase	PhaseEndDate	6/28/2024	6/30/2024
tblConstructionPhase	PhaseEndDate	7/3/2025	12/31/2024
tblConstructionPhase	PhaseEndDate	12/27/2024	7/31/2024
tblConstructionPhase	PhaseStartDate	1/1/2025	7/1/2024
tblConstructionPhase	PhaseStartDate	8/1/2024	3/1/2024
tblConstructionPhase	PhaseStartDate	1/1/2025	7/1/2024
tblConstructionPhase	PhaseStartDate	7/1/2024	2/1/2024
tblGrading	AcresOfGrading	910.00	36.40
tblGrading	MaterialExported	0.00	385,049.00
tblGrading	MaterialImported	0.00	385,049.00
tblLandUse	LotAcreage	32.47	28.00
tblOffRoadEquipment	HorsePower	400.00	189.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	6.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblProjectCharacteristics	OperationalYear	2014	2025
tblTripsAndVMT	Hauling TripLength	20.00	0.25
tblTripsAndVMT	Vendor TripNumber	11.00	22.00
tblTripsAndVMT	Worker TripNumber	55.00	56.00
tblTripsAndVMT	Worker TripNumber	36.00	72.00
tblTripsAndVMT	Worker TripNumber	55.00	56.00
tblTripsAndVMT	Worker TripNumber	7.00	14.00

2.0 Emissions Summary

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
2024	27.3954	141.3670	221.9069	0.3017	14.7120	5.8820	20.5939	7.1924	5.4368	12.6293	0.0000	28,457.53	28,457.537	7.7579	0.0000	28,620.452
Total	27.3954	141.3670	221.9069	0.3017	14.7120	5.8820	20.5939	7.1924	5.4368	12.6293	0.0000	28,457.53	28,457.537	7.7579	0.0000	28,620.452

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
lb/day																

2024	27.3954	141.3670	221.9069	0.3017	6.6761	5.8820	12.5581	3.0575	5.4368	8.4943	0.0000	28,457.53	28,457.5371	7.7579	0.0000	128,620.452
Total	27.3954	141.3670	221.9069	0.3017	6.6761	5.8820	12.5581	3.0575	5.4368	8.4943	0.0000	28,457.53	28,457.5371	7.7579	0.0000	128,620.452

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	54.62	0.00	39.02	57.49	0.00	32.74	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading	Grading	1/1/2024	6/30/2024	5	130	
2	Utilities	Trenching	2/1/2024	7/31/2024	5	130	
3	Building Construction	Building Construction	13/1/2024	12/31/2024	5	218	
4	Paving	Paving	7/1/2024	12/31/2024	5	132	
5	Architectural Coating	Architectural Coating	7/1/2024	12/31/2024	5	132	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 36.4

Acres of Paving: 0

Residential Indoor: 364,500; Residential Outdoor: 121,500; Non-Residential Indoor: 0; Non-Residential Outdoor: 0 (Architectural Coating)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Excavators	4	8.00	162	0.38
Grading	Graders	2	8.00	174	0.41
Grading	Off-Highway Trucks	2	8.00	189	0.38

Grading	Rubber Tired Dozers	2	8.00	255	0.40
Grading	Scrapers	6	8.00	361	0.48
Grading	Tractors/Loaders/Backhoes	6	8.00	97	0.37
Utilities	Excavators	4	8.00	162	0.38
Utilities	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Utilities	Trenchers	2	8.00	80	0.50
Building Construction	Cranes	2	7.00	226	0.29
Building Construction	Forklifts	6	8.00	89	0.20
Building Construction	Generator Sets	2	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	6	7.00	97	0.37
Building Construction	Welders	2	8.00	46	0.45
Paving	Cement and Mortar Mixers	8	8.00	9	0.56
Paving	Pavers	4	8.00	125	0.42
Paving	Paving Equipment	4	8.00	130	0.36
Paving	Rollers	4	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	2	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
Grading	22	56.00	0.00	96,262.00	10.80	7.30	0.25	LD_Mix	HDT_Mix	HHDT
Utilities	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	18	72.00	22.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	22	56.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	2	14.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Grading - 2024

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					13.1735	0.0000	13.1735	6.7786	0.0000	6.7786			0.0000			0.0000
Off-Road	9.0148	85.8555	86.2882	0.1720		3.7155	3.7155		3.4183	3.4183		16,650.1827	16,650.1827	5.3850		16,763.2678
Total	9.0148	85.8555	86.2882	0.1720	13.1735	3.7155	16.8891	6.7786	3.4183	10.1969		16,650.1827	16,650.1827	5.3850		16,763.2678

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	3.7556	12.4681	74.6718	0.0211	0.1766	0.0533	0.2300	0.0497	0.0491	0.0988			1,872.2402	0.0492		1,873.2726
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	0.1183	0.1319	1.4418	5.8400e-003	0.4600	3.3900e-003	0.4634	0.1220	3.1400e-003	0.1252			391.1998	0.0161		391.5385
Total	3.8739	12.6000	76.1136	0.0269	0.6367	0.0567	0.6934	0.1718	0.0522	0.2240		2,263.4400	2,263.4400	0.0653		2,264.8112

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					5.1377	0.0000	5.1377	2.6436	0.0000	2.6436			0.0000			0.0000
Off-Road	9.0148	85.8555	86.2882	0.1720	3.7155	3.7155	3.7155	3.4183	3.4183	3.4183	0.0000	16,650.1827	16,650.1827	5.3850		16,763.2678
Total	9.0148	85.8555	86.2882	0.1720	5.1377	3.7155	8.8532	2.6436	3.4183	6.0619	0.0000	16,650.1827	16,650.1827	5.3850		16,763.2678

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	3.7556	12.4681	74.6718	0.0211	0.1766	0.0533	0.2300	0.0497	0.0491	0.0988			1,872.2402	0.0492		1,873.2726
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		2	0.0000	0.0000		0.0000
Worker	0.1183	0.1319	1.4418	5.8400e-003	0.4600	3.3900e-003	0.4634	0.1220	3.1400e-003	0.1252			391.1998	0.0161		391.5385
Total	3.8739	12.6000	76.1136	0.0269	0.6367	0.0567	0.6934	0.1718	0.0522	0.2240	2,263.4400	2,263.4400	2,263.4400	0.0653		2,264.8112

3.3 Utilities - 2024

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	1.7246	15.1308	23.1793	0.0344	0.8647	0.8647	0.8647	0.7955	0.7955	0.7955			3,326.3523	1.0758		3,348.9443
Total	1.7246	15.1308	23.1793	0.0344	0.8647	0.8647	0.8647	0.7955	0.7955	0.7955	3,326.3523	3,326.3523	3,326.3523	1.0758		3,348.9443

Total	1.7246	15.1308	23.1793	0.0344	0.8647	0.8647	0.7955	0.7955	3,326.3523	1.0758	3,348.9443
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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		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
Worker	0.0422	0.0471	0.5149	2.0800e-003	0.1643	1.2100e-003	0.1655	0.0436	1.1200e-003	0.0447	139.7142	139.7142	5.7600e-003	0.0000		139.8352
Total	0.0422	0.0471	0.5149	2.0800e-003	0.1643	1.2100e-003	0.1655	0.0436	1.1200e-003	0.0447	139.7142	139.7142	5.7600e-003	0.0000		139.8352

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	1.7246	15.1308	23.1793	0.0344	0.8647	0.8647	0.7955	0.7955	3,326.3523	1.0758	3,348.9443					
Total	1.7246	15.1308	23.1793	0.0344	0.8647	0.8647	0.7955	0.7955	3,326.3523	1.0758	3,348.9443					

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
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
Worker	0.0422	0.0471	0.5149	2.0800e-003	0.1643	1.2100e-003	0.1655	0.0436	1.1200e-003	0.0447	139.7142	139.7142	5.7600e-003	0.003		139.8352
Total	0.0422	0.0471	0.5149	2.0800e-003	0.1643	1.2100e-003	0.1655	0.0436	1.1200e-003	0.0447	139.7142	139.7142	5.7600e-003	0.003		139.8352

3.4 Building Construction - 2024
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	2.9306	26.7548	32.2664	0.0537	1.2211	1.2211	1.2211	1.1487	1.1487	1.1487	5,090.230	5,090.2309	1.2019	1.2019		5,115.4698
Total	2.9306	26.7548	32.2664	0.0537	1.2211	1.2211	1.2211	1.1487	1.1487	1.1487	5,090.230	5,090.2309	1.2019	1.2019		5,115.4698

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	0.0000	0.0000	0.0000	
Vendor	0.1422	0.8092	1.6907	5.1700e-003	0.1460	0.0184	0.1644	0.0417	0.0169	0.0586	484.6467	484.6467	3.3900e-003	484.7179						
Worker	0.1521	0.1696	1.8537	7.5000e-003	0.5915	4.3600e-003	0.5958	0.1569	4.0400e-003	0.1609	502.9712	502.9712	0.0207	503.4067						
Total	0.2943	0.9788	3.5445	0.0127	0.7375	0.0227	0.7602	0.1985	0.0210	0.2195	987.6179	987.6179	0.0241	988.1246						

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
Off-Road	2.9306	26.7548	32.2664	0.0537	1.2211	1.2211	1.2211	1.1487	1.1487	1.1487	0.0000	5,090.2309	5,090.2309	1.2019		5,115.4698
Total	2.9306	26.7548	32.2664	0.0537	1.2211	1.2211	1.2211	1.1487	1.1487	1.1487	0.0000	5,090.2309	5,090.2309	1.2019		5,115.4698

Mitigated Construction Off-Site

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	0.1422	0.8092	1.6907	5.1700e-003	0.1460	0.0184	0.1644	0.0417	0.0169	0.0586	484.6467	484.6467	3.3900e-003	484.7179		
Worker	0.1521	0.1696	1.8537	7.5000e-003	0.5915	4.3600e-003	0.5958	0.1569	4.0400e-003	0.1609	502.9712	502.9712	0.0207	503.4067		
Total	0.2943	0.9788	3.5445	0.0127	0.7375	0.0227	0.7602	0.1985	0.0210	0.2195	987.6179	987.6179	0.0241	988.1246		

3.5 Paving - 2024

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	2.6960	24.5325	35.5888	0.0566	1.1676	1.1676	1.1676	1.0833	1.0833	1.0833		5,328.8264	5,328.8264	1.6347		5,363.1552
Paving	0.0000				0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		4	0.0000			0.0000
Total	2.6960	24.5325	35.5888	0.0566	1.1676	1.1676	1.1676	1.0833	1.0833	1.0833		5,328.8264	5,328.8264	1.6347		5,363.1552

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	0.0000	0.0000	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	0.1183	0.1319	1.4418	5.8400e-003	0.4600	3.3900e-003	0.4634	0.1220	3.1400e-003	0.1252		391.1998	391.1998	0.0161		391.5385
Total	0.1183	0.1319	1.4418	5.8400e-003	0.4600	3.3900e-003	0.4634	0.1220	3.1400e-003	0.1252		391.1998	391.1998	0.0161		391.5385

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	2.6960	24.5325	35.5888	0.0566	1.1676	1.1676	1.1676	1.0833	1.0833	1.0833	0.0000	5,328.8264	5,328.8264	1.6347		5,363.1552
Paving	0.0000				0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		4	0.0000			0.0000
Total	2.6960	24.5325	35.5888	0.0566	1.1676	1.1676	1.1676	1.0833	1.0833	1.0833	0.0000	5,328.8264	5,328.8264	1.6347		5,363.1552

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	0.1183	0.1319	1.4418	5.8400e-003	0.4600	3.3900e-003	0.4634	0.1220	3.1400e-003	0.1252			391.1998	0.0161		391.5385
Total	0.1183	0.1319	1.4418	5.8400e-003	0.4600	3.3900e-003	0.4634	0.1220	3.1400e-003	0.1252			391.1998	0.0161		391.5385

3.6 Architectural Coating - 2024
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																
Archit. Coating	19.1984				0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000

Off-Road	0.3615	2.4376	3.6203	5.9400e-003	0.1218	0.1218	0.1218	0.0317	562.8961	0.0317	563.5617
Total	19.5599	2.4376	3.6203	5.9400e-003	0.1218	0.1218	0.1218	0.0317	562.8961	0.0317	563.5617

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	0.0296	0.0330	0.3605	1.4600e-003	0.1150	8.5000e-004	0.1159	0.0305	7.9000e-004	0.0313	97.8000	97.8000	97.8000	4.0300e-003	0.0000	97.8846
Total	0.0296	0.0330	0.3605	1.4600e-003	0.1150	8.5000e-004	0.1159	0.0305	7.9000e-004	0.0313	97.8000	97.8000	97.8000	4.0300e-003	0.0000	97.8846

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	19.1984					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3615	2.4376	3.6203	5.9400e-003	0.1218	0.1218	0.1218	0.1218	0.1218	0.1218	0.0000	562.8961	562.8961	0.0317	0.0000	563.5617
Total	19.5599	2.4376	3.6203	5.9400e-003	0.1218	0.1218	0.1218	0.1218	0.1218	0.1218	0.0000	562.8961	562.8961	0.0317	0.0000	563.5617

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
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	0.0296	0.0330	0.3605	1.4600e-003	0.1150	8.5000e-004	0.1159	0.0305	7.9000e-004	0.0313	97.8000	97.8000	4.0300e-003	0.0000	0.0000	97.8846
Total	0.0296	0.0330	0.3605	1.4600e-003	0.1150	8.5000e-004	0.1159	0.0305	7.9000e-004	0.0313	97.8000	97.8000	4.0300e-003	0.0000	0.0000	97.8846

Otay Ranch Resort Village Year 11 Construction San Diego Air Basin, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Hotel	200.00	Room	16.40	290,400.00	0
Strip Mall	20.00	1000sqft	1.00	20,000.00	0

1.2 Other Project Characteristics

Urbanization Urban Wind Speed (m/s) 2.6 Precipitation Freq (Days) 40
 Climate Zone 13 Operational Year 2025

Utility Company

CO2 Intensity (lb/MW/hr) 0 CH4 Intensity (lb/MW/hr) 0 N2O Intensity (lb/MW/hr) 0

1.3 User Entered Comments & Non-Default Data

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	150.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	100.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	150.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	100.00
tblAreaCoating	Area_Nonresidential_Interior	465600	0
tblAreaMitigation	UseLowVOCPaintNonresidentialExterior	250	0
tblAreaMitigation	UseLowVOCPaintNonresidentialInterior	250	0
tblAreaMitigation	UseLowVOCPaintResidentialExterior	250	0
tblAreaMitigation	UseLowVOCPaintResidentialInterior	250	0

tblConstructionPhase	NumDays	20.00	132.00
tblConstructionPhase	NumDays	300.00	218.00
tblConstructionPhase	NumDays	30.00	0.00
tblConstructionPhase	NumDays	20.00	132.00
tblConstructionPhase	PhaseEndDate	7/3/2026	12/31/2025
tblConstructionPhase	PhaseEndDate	6/2/2026	12/31/2025
tblConstructionPhase	PhaseEndDate	12/31/2024	6/30/2024
tblConstructionPhase	PhaseEndDate	7/3/2026	12/31/2025
tblConstructionPhase	PhaseEndDate	12/26/2024	7/31/2025
tblConstructionPhase	PhaseStartDate	1/1/2026	7/1/2025
tblConstructionPhase	PhaseStartDate	8/1/2025	3/1/2025
tblConstructionPhase	PhaseStartDate	1/1/2026	7/1/2025
tblConstructionPhase	PhaseStartDate	7/1/2024	2/1/2025
tblGrading	AcresOfGrading	0.00	22.60
tblGrading	MaterialExported	0.00	239,069.00
tblGrading	MaterialImported	0.00	239,069.00
tblLandUse	LotAcreage	6.67	16.40
tblLandUse	LotAcreage	0.46	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	6.00

2025	2.3537	5.7296	9.4518	0.0184	0.3636	0.2505	0.6141	0.0981	0.2340	0.3321	0.0000	1,487.9831	1,487.9831	0.2916	0.0000	1,494.1076
Total	2.3537	5.7296	9.4518	0.0184	0.3636	0.2505	0.6141	0.0981	0.2340	0.3321	0.0000	1,487.9831	1,487.9831	0.2916	0.0000	1,494.1076

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	Grading		1/1/2025	6/30/2024	5	0	
2	Utilities	Trenching	12/1/2025	7/31/2025	5	129	
3	Building Construction	Building Construction	13/1/2025	12/31/2025	5	218	
4	Paving	Paving	17/1/2025	12/31/2025	5	132	
5	Architectural Coating	Architectural Coating	17/1/2025	12/31/2025	5	132	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 22.6

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 465,600; Non-Residential Outdoor: 155,200 (Architectural Coating)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Excavators	4	8.00	162	0.38
Grading	Graders	2	8.00	174	0.41
Grading	Off-Highway Trucks	2	8.00	400	0.38

Grading	Rubber Tired Dozers	2	8.00	255	0.40
Grading	Scrapers	6	8.00	361	0.48
Grading	Tractors/Loaders/Backhoes	6	8.00	97	0.37
Utilities	Excavators	4	8.00	162	0.38
Utilities	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Utilities	Trenchers	2	8.00	80	0.50
Building Construction	Cranes	2	7.00	226	0.29
Building Construction	Forklifts	6	8.00	89	0.20
Building Construction	Generator Sets	2	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	6	7.00	97	0.37
Building Construction	Welders	2	8.00	46	0.45
Paving	Cement and Mortar Mixers	8	8.00	9	0.56
Paving	Pavers	4	8.00	125	0.42
Paving	Paving Equipment	4	8.00	130	0.36
Paving	Rollers	4	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	2	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
Grading	22	56.00	0.00	59,767.00	10.80	7.30	0.25	LD_Mix	HDT_Mix	HHDT
Utilities	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	18	256.00	102.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	22	56.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	2	52.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.3 Utilities - 2025

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															
	MT/yr															
Off-Road	0.1028	0.8848	1.4897	2.2200e-003	0.0488	0.0488	0.0488	0.0449	0.0449	0.0449	0.0000	194.7097	194.7097	0.0630	0.0000	196.0321
Total	0.1028	0.8848	1.4897	2.2200e-003	0.0488	0.0488	0.0488	0.0449	0.0449	0.0449	0.0000	194.7097	194.7097	0.0630	0.0000	196.0321

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															
	MT/yr															
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.5400e-003	3.2100e-003	0.0302	1.3000e-004	0.0103	8.0000e-005	0.0104	2.7500e-003	7.0000e-005	2.8200e-003	0.0000	7.6571	7.6571	3.3000e-004	0.0000	7.6640
Total	2.5400e-003	3.2100e-003	0.0302	1.3000e-004	0.0103	8.0000e-005	0.0104	2.7500e-003	7.0000e-005	2.8200e-003	0.0000	7.6571	7.6571	3.3000e-004	0.0000	7.6640

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
tons/yr																
MT/yr																
Off-Road	0.1028	0.8848	1.4897	2.2200e-003	0.0488	0.0488	0.0488	0.0449	0.0449	0.0449	0.0000	194.7095	194.7095	0.0630	0.0000	196.0319
Total	0.1028	0.8848	1.4897	2.2200e-003	0.0488	0.0488	0.0488	0.0449	0.0449	0.0449	0.0000	194.7095	194.7095	0.0630	0.0000	196.0319

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
tons/yr																
MT/yr																
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.5400e-003	3.2100e-003	0.0302	1.3000e-004	0.0103	8.0000e-005	0.0104	2.7500e-003	7.0000e-005	2.8200e-003	0.0000	7.6571	7.6571	3.3000e-004	0.0000	7.6640
Total	2.5400e-003	3.2100e-003	0.0302	1.3000e-004	0.0103	8.0000e-005	0.0104	2.7500e-003	7.0000e-005	2.8200e-003	0.0000	7.6571	7.6571	3.3000e-004	0.0000	7.6640

3.4 Building Construction - 2025

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																
MT/yr																
Off-Road	0.2968	2.7053	3.4993	5.8500e-003	0.1145	0.1145	0.1145	0.1077	0.1077	0.1077	0.0000	503.4913	503.4913	0.1182	0.0000	505.9729

Total	0.2968	2.7053	3.4993	5.8500e-003	0.1145	0.1145	0.1077	0.1077	0.0000	503.4913	503.4913	0.1182	0.0000	505.9729
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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																
MT/yr																
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0744	0.4156	1.0322	2.6100e-003	0.0723	9.3500e-003	0.0817	0.0207	8.6000e-003	0.0293	0.0000	221.4823	221.4823	1.5800e-003	0.0000	221.5155
Worker	0.0550	0.0695	0.6530	2.7600e-003	0.2238	1.7000e-003	0.2255	0.0595	1.5800e-003	0.0610	0.0000	165.6312	165.6312	7.0800e-003	0.0000	165.7799
Total	0.1295	0.4850	1.6852	5.3700e-003	0.2961	0.0111	0.3071	0.0802	0.0102	0.0903	0.0000	387.1134	387.1134	8.6600e-003	0.0000	387.2954

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
tons/yr																
MT/yr																
Off-Road	0.2968	2.7053	3.4993	5.8500e-003	0.1145	0.1145	0.1145	0.1077	0.1077	0.1077	0.0000	503.4907	503.4907	0.1182	0.0000	505.9723
Total	0.2968	2.7053	3.4993	5.8500e-003	0.1145	0.1145	0.1145	0.1077	0.1077	0.1077	0.0000	503.4907	503.4907	0.1182	0.0000	505.9723

Mitigated Construction Off-Site

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	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	0.0000	0.0000	0.0000
Worker	7.2900e-003	9.2000e-003	0.0865	3.6000e-004	0.0296	2.3000e-004	0.0299	7.8800e-003	0.0299	2.1000e-004	8.0900e-003	21.9385	21.9385	9.4000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	21.9582
Total	7.2900e-003	9.2000e-003	0.0865	3.6000e-004	0.0296	2.3000e-004	0.0299	7.8800e-003	0.0299	2.1000e-004	8.0900e-003	21.9385	21.9385	9.4000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	21.9582

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
					tons/yr											
Off-Road	0.1669	1.4823	2.3418	3.7300e-003	0.0689	0.0689	0.0689	0.0640	0.0640	0.0640	0.0000	318.9995	318.9995	0.0979	0.0000	321.0545
Paving	0.0000				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	0.1669	1.4823	2.3418	3.7300e-003	0.0689	0.0689	0.0689	0.0640	0.0640	0.0640	0.0000	318.9995	318.9995	0.0979	0.0000	321.0545

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
					tons/yr											
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.2900e-003	9.2000e-003	0.0865	3.6000e-004	0.0296	2.3000e-004	0.0299	7.8800e-003	2.1000e-004	8.0900e-003	0.0000	21.9385	21.9385	9.4000e-004	0.0000	21.9582
Total	7.2900e-003	9.2000e-003	0.0865	3.6000e-004	0.0296	2.3000e-004	0.0299	7.8800e-003	2.1000e-004	8.0900e-003	0.0000	21.9385	21.9385	9.4000e-004	0.0000	21.9582

3.6 Architectural Coating - 2025
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	1.6185				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	0.0226	0.1512	0.2388	3.9000e-004	6.8000e-003	6.8000e-003	6.8000e-003	6.8000e-003	6.8000e-003	6.8000e-003	0.0000	33.7030	33.7030	1.8400e-003	0.0000	33.7416
Total	1.6411	0.1512	0.2388	3.9000e-004	6.8000e-003	6.8000e-003	6.8000e-003	6.8000e-003	6.8000e-003	6.8000e-003	0.0000	33.7030	33.7030	1.8400e-003	0.0000	33.7416

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	6.7700e-003	8.5400e-003	0.0803	3.4000e-004	0.0275	2.1000e-004	0.0277	7.3100e-003	1.9000e-004	7.5100e-003	0.0000	20.3715	20.3715	8.7000e-004	0.0000	20.3898
Total	6.7700e-003	8.5400e-003	0.0803	3.4000e-004	0.0275	2.1000e-004	0.0277	7.3100e-003	1.9000e-004	7.5100e-003	0.0000	20.3715	20.3715	8.7000e-004	0.0000	20.3898

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
tons/yr																
MT/yr																
Archit. Coating	1.6185					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0226	0.1512	0.2388	3.9000e-004	6.8000e-003	6.8000e-003	6.8000e-003	6.8000e-003	6.8000e-003	6.8000e-003	0.0000	33.7029	33.7029	1.8400e-003	0.0000	33.7415
Total	1.6411	0.1512	0.2388	3.9000e-004	6.8000e-003	6.8000e-003	6.8000e-003	6.8000e-003	6.8000e-003	6.8000e-003	0.0000	33.7029	33.7029	1.8400e-003	0.0000	33.7415

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
tons/yr																
MT/yr																
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.7700e-003	8.5400e-003	0.0803	3.4000e-004	0.0275	2.1000e-004	0.0277	7.3100e-003	1.9000e-004	7.5100e-003	0.0000	20.3715	20.3715	8.7000e-004	0.0000	20.3898
Total	6.7700e-003	8.5400e-003	0.0803	3.4000e-004	0.0275	2.1000e-004	0.0277	7.3100e-003	1.9000e-004	7.5100e-003	0.0000	20.3715	20.3715	8.7000e-004	0.0000	20.3898

Otay Ranch Resort Village Year 11 Construction San Diego Air Basin, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Hotel	200.00	Room	16.40	290,400.00	0
Strip Mall	20.00	1000sqft	1.00	20,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2025

Utility Company

CO2 Intensity (lb/MW/hr)	0	CH4 Intensity (lb/MW/hr)	0	N2O Intensity (lb/MW/hr)	0
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1.3 User Entered Comments & Non-Default Data

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	150.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	100.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	150.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	100.00
tblAreaCoating	Area_Nonresidential_Interior	466600	0
tblAreaMitigation	UseLowVOCPaintNonresidentialExterior	250	0
tblAreaMitigation	UseLowVOCPaintNonresidentialInterior	250	0
tblAreaMitigation	UseLowVOCPaintResidentialExterior	250	0
tblAreaMitigation	UseLowVOCPaintResidentialInterior	250	0

tblConstructionPhase	NumDays	20.00	132.00
tblConstructionPhase	NumDays	300.00	218.00
tblConstructionPhase	NumDays	30.00	0.00
tblConstructionPhase	NumDays	20.00	132.00
tblConstructionPhase	PhaseEndDate	7/3/2026	12/31/2025
tblConstructionPhase	PhaseEndDate	6/2/2026	12/31/2025
tblConstructionPhase	PhaseEndDate	12/31/2024	6/30/2024
tblConstructionPhase	PhaseEndDate	7/3/2026	12/31/2025
tblConstructionPhase	PhaseEndDate	12/26/2024	7/31/2025
tblConstructionPhase	PhaseStartDate	1/1/2026	7/1/2025
tblConstructionPhase	PhaseStartDate	8/1/2025	3/1/2025
tblConstructionPhase	PhaseStartDate	1/1/2026	7/1/2025
tblConstructionPhase	PhaseStartDate	7/1/2024	2/1/2025
tblGrading	AcresOfGrading	0.00	22.60
tblGrading	MaterialExported	0.00	239,069.00
tblGrading	MaterialImported	0.00	239,069.00
tblLandUse	LotAcreage	6.67	16.40
tblLandUse	LotAcreage	0.46	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	6.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblProjectCharacteristics	OperationalYear	2014	2025
tblTripsAndVMT	Hauling TripLength	20.00	0.25
tblTripsAndVMT	Vendor TripNumber	51.00	102.00
tblTripsAndVMT	Worker TripNumber	55.00	56.00
tblTripsAndVMT	Worker TripNumber	128.00	256.00
tblTripsAndVMT	Worker TripNumber	55.00	56.00
tblTripsAndVMT	Worker TripNumber	26.00	52.00

2.0 Emissions Summary

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
2025	33.1336	67.8676	111.4415	0.2146	3.8315	3.0625	6.8939	1.0298	2.8569	3.8867	0.0000	19,207.72	19,207.728	4.0596	0.0000	119,292.979
Total	33.1336	67.8676	111.4415	0.2146	3.8315	3.0625	6.8939	1.0298	2.8569	3.8867	0.0000	83	19,207.728	4.0596	0.0000	119,292.979

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
lb/day																

2025	33.1336	67.8676	111.4415	0.2146	3.8315	3.0625	6.8939	1.0298	2.8569	3.8867	0.0000	19,207.72	19,207.728	4.0596	0.0000	19,292.979
Total	33.1336	67.8676	111.4415	0.2146	3.8315	3.0625	6.8939	1.0298	2.8569	3.8867	0.0000	19,207.72	19,207.728	4.0596	0.0000	19,292.979

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading	Grading	1/1/2025	6/30/2024	5	0	
2	Utilities	Trenching	2/1/2025	7/31/2025	5	129	
3	Building Construction	Building Construction	3/1/2025	12/31/2025	5	218	
4	Paving	Paving	7/1/2025	12/31/2025	5	132	
5	Architectural Coating	Architectural Coating	7/1/2025	12/31/2025	5	132	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 22.6

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 465,600; Non-Residential Outdoor: 155,200 (Architectural Coating --

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Excavators	4	8.00	162	0.38
Grading	Graders	2	8.00	174	0.41
Grading	Off-Highway Trucks	2	8.00	400	0.38

Grading	Rubber Tired Dozers	2	8.00	255	0.40
Grading	Scrapers	6	8.00	361	0.48
Grading	Tractors/Loaders/Backhoes	6	8.00	97	0.37
Utilities	Excavators	4	8.00	162	0.38
Utilities	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Utilities	Trenchers	2	8.00	80	0.50
Building Construction	Cranes	2	7.00	226	0.29
Building Construction	Forklifts	6	8.00	89	0.20
Building Construction	Generator Sets	2	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	6	7.00	97	0.37
Building Construction	Welders	2	8.00	46	0.45
Paving	Cement and Mortar Mixers	8	8.00	9	0.56
Paving	Pavers	4	8.00	125	0.42
Paving	Paving Equipment	4	8.00	130	0.36
Paving	Rollers	4	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	2	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
Grading	22	56.00	0.00	59,767.00	10.80	7.30	0.25	LD_Mix	HDT_Mix	HHDT
Utilities	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	18	256.00	102.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	22	56.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	2	52.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.3 Utilities - 2025

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	1.5938	13.7180	23.0959	0.0344		0.7559	0.7559		0.6955	0.6955		3,327.6075	3,327.6075	1.0762		3,350.2081
Total	1.5938	13.7180	23.0959	0.0344		0.7559	0.7559		0.6955	0.6955		3,327.6075	3,327.6075	1.0762		3,350.2081

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	0.0000	0.0000	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	0.0406	0.0452	0.4942	2.0800e-003	0.1643	1.2200e-003	0.1655	0.0436	1.1300e-003	0.0447		138.0427	138.0427	5.6000e-003		138.1602
Total	0.0406	0.0452	0.4942	2.0800e-003	0.1643	1.2200e-003	0.1655	0.0436	1.1300e-003	0.0447		138.0427	138.0427	5.6000e-003		138.1602

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	1.5938	13.7180	23.0959	0.0344	0.7559	0.7559	0.7559	0.6955	0.6955	0.6955	0.0000	3,327.607	3,327.6075	1.0762		3,350.2081
Total	1.5938	13.7180	23.0959	0.0344	0.7559	0.7559	0.7559	0.6955	0.6955	0.6955	0.0000	3,327.607	3,327.6075	1.0762		3,350.2081

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
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
Worker	0.0406	0.0452	0.4942	2.0800e-003	0.1643	1.2200e-003	0.1655	0.0436	1.1300e-003	0.0447	138.0427	138.0427	138.0427	5.6000e-003		138.1602
Total	0.0406	0.0452	0.4942	2.0800e-003	0.1643	1.2200e-003	0.1655	0.0436	1.1300e-003	0.0447	138.0427	138.0427	138.0427	5.6000e-003		138.1602

3.4 Building Construction - 2025

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	2.7229	24.8194	32.1036	0.0537	1.0500	1.0500	1.0500	0.9878	0.9878	0.9878	5,091.781	5,091.7811	5,091.7811	1.1951		5,116.8771
Total	2.7229	24.8194	32.1036	0.0537	1.0500	1.0500	1.0500	0.9878	0.9878	0.9878	5,091.781	5,091.7811	5,091.7811	1.1951		5,116.8771

Total	2.7229	24.8194	32.1036	0.0537	1.0500	1.0500	0.9878	0.9878	5,091.781	5,091.7811	1.1951	1.1951	5,116.8771
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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		0.0000
Vendor	0.6430	3.7132	7.6528	0.0240	0.6770	0.0855	0.7625	0.1931	0.0787	0.2718	2,247.188	2,247.1887	2,247.1887	0.0158		2,247.5197
Worker	0.5199	0.5782	6.3258	0.0267	2.1030	0.0156	2.1186	0.5578	0.0145	0.5723	1,766.946	1,766.9462	1,766.9462	0.0716		1,768.4506
Total	1.1629	4.2914	13.9786	0.0506	2.7800	0.1011	2.8811	0.7509	0.0932	0.8441	4,014.134	4,014.1349	4,014.1349	0.0874		4,015.9703

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	2.7229	24.8194	32.1036	0.0537	1.0500	1.0500	1.0500	0.9878	0.9878	0.9878	0.0000	5,091.781	5,091.7811	1.1951		5,116.8771
Total	2.7229	24.8194	32.1036	0.0537	1.0500	1.0500	1.0500	0.9878	0.9878	0.9878	0.0000	5,091.781	5,091.7811	1.1951		5,116.8771

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	0.6430	3.7132	7.6528	0.0240	0.6770	0.0855	0.7625	0.1931	0.0787	0.2718	2,247.1887	2,247.1887	2,247.1887	0.0158		2,247.5197
Worker	0.5199	0.5782	6.3258	0.0267	2.1030	0.0156	2.1186	0.5578	0.0145	0.5723	1,766.9462	1,766.9462	1,766.9462	0.0716		1,768.4506
Total	1.1629	4.2914	13.9786	0.0506	2.7800	0.1011	2.8811	0.7509	0.0932	0.8441	4,014.1349	4,014.1349	4,014.1349	0.0874		4,015.9703

3.5 Paving - 2025

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	2.5290	22.4587	35.4823	0.0566	1.0445	1.0445	1.0445	0.9701	0.9701	0.9701	5,327.8356	5,327.8356	5,327.8356	1.6344		5,362.1576
Paving	0.0000				0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Total	2.5290	22.4587	35.4823	0.0566	1.0445	1.0445	1.0445	0.9701	0.9701	0.9701	5,327.8356	5,327.8356	5,327.8356	1.6344		5,362.1576

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																

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
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
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
Worker	0.1137	0.1265	1.3838	5.8300e-003	0.4600	3.4200e-003	0.4635	0.1220	3.1700e-003	0.1252	386.5195	386.5195	0.0157	0.0157		386.8486
Total	0.1137	0.1265	1.3838	5.8300e-003	0.4600	3.4200e-003	0.4635	0.1220	3.1700e-003	0.1252	386.5195	386.5195	0.0157	0.0157		386.8486

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
Off-Road	2.5290	22.4587	35.4823	0.0566	1.0445	1.0445	1.0445	0.9701	0.9701	0.9701	0.0000	5,327.8355	5,327.8355	1.6344		5,362.1576
Paving	0.0000				0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		5	0.0000			0.0000
Total	2.5290	22.4587	35.4823	0.0566	1.0445	1.0445	1.0445	0.9701	0.9701	0.9701	0.0000	5,327.8355	5,327.8355	1.6344		5,362.1576

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
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
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
Worker	0.1137	0.1265	1.3838	5.8300e-003	0.4600	3.4200e-003	0.4635	0.1220	3.1700e-003	0.1252	386.5195	386.5195	0.0157	0.0157		386.8486
Total	0.1137	0.1265	1.3838	5.8300e-003	0.4600	3.4200e-003	0.4635	0.1220	3.1700e-003	0.1252	386.5195	386.5195	0.0157	0.0157		386.8486

3.6 Architectural Coating - 2025
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																
Archit. Coating	24.5234				0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.3417	2.2910	3.6183	5.9400e-003	0.1030	0.1030	0.1030	0.1030	0.1030	0.1030		562.8961	562.8961	0.0307		563.5409
Total	24.8651	2.2910	3.6183	5.9400e-003	0.1030	0.1030	0.1030	0.1030	0.1030	0.1030		562.8961	562.8961	0.0307		563.5409

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	0.1056	0.1175	1.2849	5.4200e-003	0.4272	3.1800e-003	0.4303	0.1133	2.9500e-003	0.1163		358.9110	358.9110	0.0146		359.2165
Total	0.1056	0.1175	1.2849	5.4200e-003	0.4272	3.1800e-003	0.4303	0.1133	2.9500e-003	0.1163		358.9110	358.9110	0.0146		359.2165

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	24.5234				0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.3417	2.2910	3.6183	5.9400e-003	0.1030	0.1030	0.1030	0.1030	0.1030	0.1030	0.0000	562.8961	562.8961	0.0307		563.5409
Total	24.8651	2.2910	3.6183	5.9400e-003	0.1030	0.1030	0.1030	0.1030	0.1030	0.1030	0.0000	562.8961	562.8961	0.0307		563.5409

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	0.1056	0.1175	1.2849	5.4200e-003	0.4272	3.1800e-003	0.4303	0.1133	2.9500e-003	0.1163			358.9110	0.0146		359.2165
Total	0.1056	0.1175	1.2849	5.4200e-003	0.4272	3.1800e-003	0.4303	0.1133	2.9500e-003	0.1163			358.9110	0.0146		359.2165

Otay Ranch Village 13 San Diego Air Basin, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Government Office Building	10.00	1000sqft	2.10	10,000.00	0
Elementary School	600.00	Student	10.00	50,162.02	0
City Park	29.70	Acre	29.70	1,293,732.00	0
Hotel	200.00	Room	17.40	290,400.00	0
Condo/Townhouse	57.00	Dwelling Unit	13.10	57,000.00	163
Single Family Housing	1,881.00	Dwelling Unit	540.20	3,385,800.00	5380
Strip Mall	40.00	1000sqft	1.00	40,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2025

Utility Company

CO2 Intensity (lb/MW/hr)	0	CH4 Intensity (lb/MW/hr)	0	N2O Intensity (lb/MW/hr)	0
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1.3 User Entered Comments & Non-Default Data

Area Coating - Rule 67.0 coatings

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	150
tblAreaMitigation	UseLowVOCPaintNonresidentialInterior	250	100
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	250	150

tblAreaMitigation	UseLowVOCPaintResidentialInteriorVali	250	100
tblConstructionPhase	NumDays	770.00	0.00
tblConstructionPhase	NumDays	10,850.00	0.00
tblConstructionPhase	NumDays	700.00	0.00
tblConstructionPhase	NumDays	1,085.00	0.00
tblConstructionPhase	NumDays	770.00	0.00
tblConstructionPhase	NumDays	420.00	0.00
tblConstructionPhase	PhaseEndDate	12/31/2014	12/31/2010
tblConstructionPhase	PhaseStartDate	1/1/2011	1/2/2011
tblConstructionPhase	PhaseStartDate	1/1/2011	1/2/2011
tblConstructionPhase	PhaseStartDate	1/1/2015	1/2/2011
tblConstructionPhase	PhaseStartDate	1/1/2011	1/2/2011
tblConstructionPhase	PhaseStartDate	1/1/2011	1/2/2011
tblConstructionPhase	PhaseStartDate	1/1/2011	1/2/2011
tblFireReplaces	NumberGas	31.35	57.00
tblFireReplaces	NumberGas	1,034.55	1,881.00
tblFireReplaces	NumberWood	19.95	0.00
tblFireReplaces	NumberWood	658.35	0.00
tblLandUse	LotAcreage	0.23	2.10
tblLandUse	LotAcreage	1.15	10.00
tblLandUse	LotAcreage	6.67	17.40
tblLandUse	LotAcreage	3.56	13.10
tblLandUse	LotAcreage	610.71	540.20
tblLandUse	LotAcreage	0.92	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00

tblOffRoadEquipment	UsageHours	7.00	4.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	7.00
tblOffRoadEquipment	UsageHours	8.00	7.00
tblOffRoadEquipment	UsageHours	8.00	1.00
tblOffRoadEquipment	UsageHours	8.00	1.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblProjectCharacteristics	OperationalYear	2014	2025
tblTripsAndVMT	WorkerTripNumber	18.00	10.00
tblTripsAndVMT	WorkerTripNumber	13.00	5.00
tblTripsAndVMT	WorkerTripNumber	23.00	10.00
tblTripsAndVMT	WorkerTripNumber	1,421.00	0.00
tblTripsAndVMT	WorkerTripNumber	23.00	18.00
tblTripsAndVMT	WorkerTripNumber	284.00	0.00
tblVehicleTrips	ST_TR	1.59	5.00
tblVehicleTrips	ST_TR	7.16	8.00
tblVehicleTrips	ST_TR	0.00	52.70
tblVehicleTrips	ST_TR	8.19	8.00
tblVehicleTrips	ST_TR	10.08	10.00
tblVehicleTrips	ST_TR	42.04	120.00
tblVehicleTrips	SU_TR	1.59	5.00
tblVehicleTrips	SU_TR	6.07	8.00
tblVehicleTrips	SU_TR	0.00	52.70
tblVehicleTrips	SU_TR	5.95	8.00
tblVehicleTrips	SU_TR	8.77	10.00
tblVehicleTrips	SU_TR	20.43	120.00
tblVehicleTrips	WD_TR	1.59	5.00
tblVehicleTrips	WD_TR	6.59	8.00
tblVehicleTrips	WD_TR	1.29	1.50

tbVehicleTrips	WD_TR	68.93	52.70
tbVehicleTrips	WD_TR	8.17	8.00
tbVehicleTrips	WD_TR	9.57	10.00
tbVehicleTrips	WD_TR	44.32	120.00
tbWoodstoves	NumberCatalytic	2.85	0.00
tbWoodstoves	NumberCatalytic	94.05	0.00
tbWoodstoves	NumberNoncatalytic	2.85	0.00
tbWoodstoves	NumberNoncatalytic	94.05	0.00

2.0 Emissions Summary

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

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	
Area	157.4210	1.8410	160.0308	8.4500e-003	3.4859	3.4859	3.4859	3.4585	3.4585	3.4585	0.0000	41,328.08	141,328.0861	1.0628	0.7524	141,583.649	
Energy	2.1003	18.2428	9.7984	0.1146	1.4511	1.4511	1.4511	1.4511	1.4511	1.4511	69	9	22,912.50	22,912.5051	0.4392	0.4201	123,051.947
Mobile	65.0247	110.1798	605.2365	2.1657	145.2458	2.3106	147.5564	38.7693	2.1337	40.9030	57	7	156,505.8	156,505.861	5.1159	4	1156,613.30
Total	224.5459	130.2635	775.0656	2.2887	145.2458	7.2476	152.4933	38.7693	7.0433	45.8126	0.0000	220,746.4	220,746.46	6.6179	1.1725	221,248.89	
																93	

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	128.1070	1.8296	158.8794	8.3600e-003	3.4791	3.4791	3.4791	3.4517	3.4517	3.4517	0.0000	41,325.49	41,325.49	1.0588	0.7524	141,580.970
Energy	1.8493	16.0617	8.6206	0.1009	1.2777	1.2777	1.2777	1.2777	1.2777	1.2777	0.0000	20,174.24	20,174.24	0.3867	0.3699	20,297.024
Mobile	62.7349	100.6690	556.5836	1.9370	129.4140	2.0868	131.5008	34.5435	1.9272	36.4706	0.0000	139,981.30	139,981.30	4.6128	1.1223	140,078.17
Total	192.6912	118.5603	724.0836	2.0463	129.4140	6.8436	136.2576	34.5435	6.6566	41.2000	0.0000	201,481.0	201,481.04	6.0583	1.1223	201,956.16
												420	20			78

	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	14.19	8.98	6.58	10.59	10.90	5.57	10.65	10.90	5.49	10.07	0.00	8.73	8.73	8.45	4.28	8.72

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

- Increase Density
- Increase Diversity
- Improve Walkability Design
- Increase Transit Accessibility
- Improve Pedestrian Network
- Provide Traffic Calming Measures

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																
Unmitigated	65.0247	110.1798	605.2365	2.1657	145.2458	2.3106	147.5564	38.7693	2.1337	40.9030	156.5058	156.5058	156,505.86	5.1159		156,613.30
" "											684	84				23
Mitigated	62.7349	100.6690	556.5836	1.9370	129.4140	2.0868	131.5008	34.5435	1.9272	36.4706	139.9813	139.9813	139,981.30	4.6128		140,078.17
" "											032	32				21

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated		Mitigated	
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT	Annual VMT	Annual VMT
City Park	148.50	148.50	148.50	317,026	282,470		
Condo/Townhouse	456.00	456.00	456.00	1,302,018	1,160,098		
Elementary School	900.00	0.00	0.00	1,417,461	1,262,958		
Government Office Building	527.00	527.00	527.00	903,742	805,234		
Hotel	1,600.00	1,600.00	1,600.00	3,039,889	2,708,541		
Single Family Housing	18,810.00	18,810.00	18,810.00	53,708,256	47,854,056		
Strip Mall	4,800.00	4,800.00	4,800.00	7,392,159	6,586,413		
Total	27,241.50	26,341.50	26,341.50	68,080,551	60,659,771		

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-	H-S or C-C	H-O or C-NW	H-W or C-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by	
City Park	9.50	7.30	7.30	33.00	48.00	19.00	33.00	48.00	19.00	66	28	6	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6	
Condo/Townhouse	10.80	7.30	7.50	41.60	18.80	39.60	41.60	18.80	39.60	86	11	3	10.80	7.30	7.50	41.60	18.80	39.60	86	11	3	
Elementary School	9.50	7.30	7.30	65.00	30.00	5.00	65.00	30.00	5.00	63	25	12	9.50	7.30	7.30	65.00	30.00	5.00	63	25	12	
Government Office Building	9.50	7.30	7.30	33.00	62.00	5.00	33.00	62.00	5.00	50	34	16	9.50	7.30	7.30	33.00	62.00	5.00	50	34	16	
Hotel	9.50	7.30	7.30	19.40	61.60	19.00	19.40	61.60	19.00	58	38	4	9.50	7.30	7.30	19.40	61.60	19.00	58	38	4	
Single Family Housing	10.80	7.30	7.50	41.60	18.80	39.60	41.60	18.80	39.60	86	11	3	10.80	7.30	7.50	41.60	18.80	39.60	86	11	3	
Strip Mall	9.50	7.30	7.30	16.60	64.40	19.00	16.60	64.40	19.00	45	40	15	9.50	7.30	7.30	16.60	64.40	19.00	45	40	15	

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.511923	0.073395	0.191568	0.130918	0.036235	0.005199	0.012665	0.023708	0.001889	0.002027	0.006511	0.000534	0.003431

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Install Energy Efficient Appliances

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															
Natural Gas Mitigated	1.8493	16.0617	8.6206	0.1009	1.2777	1.2777	1.2777	1.2777	1.2777	1.2777	20,174.24	20,174.24	20,174.24	0.3867	0.3699	20,297.024
Natural Gas Unmitigated	2.1003	18.2428	9.7984	0.1146	1.4511	1.4511	1.4511	1.4511	1.4511	1.4511	22,912.50	22,912.50	22,912.50	0.4392	0.4201	23,051.947
											57	7				4

5.2 Energy by Land Use - Natural Gas

Unmitigated

Land Use	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day																
City Park	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
Condo/Townhouse	2153.67	0.0232	0.1985	0.0845	1.2700e-003	0.0161	0.0161	0.0161	0.0161	0.0161	0.0161	253.3730	253.3730	253.3730	4.8600e-003	4.6500e-003	254.9150
Elementary School	852.067	9.1900e-003	0.0835	0.0702	5.0000e-004	6.3500e-003	6.3500e-003	6.3500e-003	6.3500e-003	6.3500e-003	6.3500e-003	100.2432	100.2432	100.2432	1.9200e-003	1.8400e-003	100.8533
Government Office Building	576.164	6.2100e-003	0.0565	0.0475	3.4000e-004	4.2900e-003	4.2900e-003	4.2900e-003	4.2900e-003	4.2900e-003	4.2900e-003	67.7841	67.7841	67.7841	1.3000e-003	1.2400e-003	68.1966

Hotel	48413.3	0.5221	4.7464	3.9870	0.0285	0.3607	0.3607	0.3607	0.3607	15,695.6777	5,695.6777	0.1092	0.1044	15,730.3406
Single Family Housing	142510	1.5369	13.1333	5.5886	0.0838	1.0618	1.0618	1.0618	1.0618	16,765.903	16,765.90	0.3214	0.3074	16,867.937
Strip Mall	250.959	2.7100e-003	0.0246	0.0207	1.5000e-004	1.8700e-003	1.8700e-003	1.8700e-003	1.8700e-003	29.5246	29.5246	5.7000e-004	5.4000e-004	29.7043
Total		2.1003	18.2428	9.7984	0.1146	1.4511	1.4511	1.4511	1.4511	22,912.505	22,912.50	0.4392	0.4201	23,051.947

Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	lb/day																
City Park	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
Condo/Townhouse	1.90093	0.0205	0.1752	0.0746	1.1200e-003	0.0142	0.0142	0.0142	0.0142	0.0142	0.0142	223.6389	223.6389	4.2900e-003	4.2900e-003	4.1000e-003	225.0000
Elementary School	0.734152	7.9200e-003	0.0720	0.0605	4.3000e-004	5.4700e-003	5.4700e-003	5.4700e-003	5.4700e-003	5.4700e-003	5.4700e-003	86.3708	86.3708	1.6600e-003	1.6600e-003	1.5800e-003	86.8965
Government Office Building	0.507	5.4700e-003	0.0497	0.0418	3.0000e-004	3.7800e-003	3.7800e-003	3.7800e-003	3.7800e-003	3.7800e-003	3.7800e-003	59.6471	59.6471	1.1400e-003	1.1400e-003	1.0900e-003	60.0101
Hotel	42.476	0.4581	4.1643	3.4980	0.0250	0.3165	0.3165	0.3165	0.3165	0.3165	0.3165	14,997.1733	4,997.173	0.0958	0.0958	0.0916	15,027.5852
Single Family Housing	125.632	1.3549	11.5778	4.9267	0.0739	0.9361	0.9361	0.9361	0.9361	0.9361	0.9361	114,780.213	14,780.21	0.2833	0.2833	0.2710	14,870.163
Strip Mall	0.231233	2.4900e-003	0.0227	0.0190	1.4000e-004	1.7200e-003	1.7200e-003	1.7200e-003	1.7200e-003	1.7200e-003	1.7200e-003	27.2039	27.2039	5.2000e-004	5.2000e-004	5.0000e-004	27.3694
Total		1.8493	16.0617	8.6206	0.1009	1.2777	1.2777	1.2777	1.2777	1.2777	1.2777	20,174.247	20,174.24	0.3867	0.3699	0.3699	20,297.024

6.0 Area Detail

6.1 Mitigation Measures Area

- Use Electric Lawnmower
- Use Electric Leafblower
- Use Electric Chainsaw

- Use Low VOC Paint - Residential Interior
- Use Low VOC Paint - Residential Exterior
- Use Low VOC Paint - Non-Residential Interior
- Use Low VOC Paint - Non-Residential Exterior
- Use Low VOC Cleaning Supplies

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															
Unmitigated	157.4210	1.8410	160.0308	8.4500e-003	3.4859	3.4859	3.4859	3.4585	3.4585	3.4585	0.0000	41,328.0869	41,328.0869	1.0628	0.7524	41,583.6495
Mitigated	128.1070	1.8296	158.8794	8.3600e-003	3.4791	3.4791	3.4791	3.4517	3.4517	3.4517	0.0000	41,325.4910	41,325.4910	1.0588	0.7524	41,560.9708

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	39.1349				0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Consumer Products	109.7198				0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Hearth	3.7620	1.700e-004	0.2052	0.0000	2.5992	2.5992	2.5992	2.5718	2.5718	2.5718	0.0000	41,040.0000	41,040.0000	0.7866	0.7524	41,289.7626
Landscaping	4.8043	1.8408	159.8256	8.4500e-003	0.8867	0.8867	0.8867	0.8867	0.8867	0.8867		288.0869	288.0869	0.2762		293.8869
Total	157.4210	1.8410	160.0308	8.4500e-003	3.4859	3.4859	3.4859	3.4585	3.4585	3.4585	0.0000	41,328.0869	41,328.0869	1.0628	0.7524	41,583.6495

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	18.0919				0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Consumer Products	101.5165				0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Hearth	3.7620	1.7000e-004	0.2052	0.0000	2.5992	2.5992	2.5992	2.5718	2.5718	2.5718	0.0000	41,040.0000	141,040.0000	0.7866	0.7524	141,289.7626
Landscaping	4.7366	1.8294	158.8742	8.3600e-003	0.8799	0.8799	0.8799	0.8799	0.8799	0.8799		285.4910	285.4910	0.2722		291.2082
Total	128.1070	1.8296	158.8794	8.3600e-003	3.4791	3.4791	3.4791	3.4517	3.4517	3.4517	0.0000	41,325.4910	41,325.4910	1.0588	0.7524	41,580.9708

7.0 Water Detail

7.1 Mitigation Measures Water

- Install Low Flow Bathroom Faucet
- Install Low Flow Kitchen Faucet
- Install Low Flow Toilet
- Install Low Flow Shower
- Use Water Efficient Irrigation System

8.0 Waste Detail

8.1 Mitigation Measures Waste

- Institute Recycling and Composting Services

9.0 Operational Offroad

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

10.0 Vegetation

Otay Ranch Village 13 San Diego Air Basin, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Government Office Building	10.00	1000sqft	2.10	10,000.00	0
Elementary School	600.00	Student	10.00	50,162.02	0
City Park	29.70	Acre	29.70	1,293,732.00	0
Hotel	200.00	Room	17.40	290,400.00	0
Condo/Townhouse	57.00	Dwelling Unit	13.10	57,000.00	163
Single Family Housing	1,881.00	Dwelling Unit	540.20	3,385,800.00	5380
Strip Mall	40.00	1000sqft	1.00	40,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2025

Utility Company

CO2 Intensity (lb/MW/hr)	0	CH4 Intensity (lb/MW/hr)	0	N2O Intensity (lb/MW/hr)	0
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1.3 User Entered Comments & Non-Default Data

Area Coating - Rule 67.0 coatings

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	150
tblAreaMitigation	UseLowVOCPaintNonresidentialInterior	250	100
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	250	150

tblAreaMitigation	UseLowVOCPaintResidentialInteriorVali	250	100
tblConstructionPhase	NumDays	770.00	0.00
tblConstructionPhase	NumDays	10,850.00	0.00
tblConstructionPhase	NumDays	700.00	0.00
tblConstructionPhase	NumDays	1,085.00	0.00
tblConstructionPhase	NumDays	770.00	0.00
tblConstructionPhase	NumDays	420.00	0.00
tblConstructionPhase	PhaseEndDate	12/31/2014	12/31/2010
tblConstructionPhase	PhaseStartDate	1/1/2011	1/2/2011
tblConstructionPhase	PhaseStartDate	1/1/2011	1/2/2011
tblConstructionPhase	PhaseStartDate	1/1/2015	1/2/2011
tblConstructionPhase	PhaseStartDate	1/1/2011	1/2/2011
tblConstructionPhase	PhaseStartDate	1/1/2011	1/2/2011
tblConstructionPhase	PhaseStartDate	1/1/2011	1/2/2011
tblFireReplaces	NumberGas	31.35	57.00
tblFireReplaces	NumberGas	1,034.55	1,881.00
tblFireReplaces	NumberWood	19.95	0.00
tblFireReplaces	NumberWood	658.35	0.00
tblLandUse	LotAcreage	0.23	2.10
tblLandUse	LotAcreage	1.15	10.00
tblLandUse	LotAcreage	6.67	17.40
tblLandUse	LotAcreage	3.56	13.10
tblLandUse	LotAcreage	610.71	540.20
tblLandUse	LotAcreage	0.92	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00

tblOffRoadEquipment	UsageHours	7.00	4.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	7.00
tblOffRoadEquipment	UsageHours	8.00	7.00
tblOffRoadEquipment	UsageHours	8.00	1.00
tblOffRoadEquipment	UsageHours	8.00	1.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblProjectCharacteristics	OperationalYear	2014	2025
tblTripsAndVMT	WorkerTripNumber	18.00	10.00
tblTripsAndVMT	WorkerTripNumber	13.00	5.00
tblTripsAndVMT	WorkerTripNumber	23.00	10.00
tblTripsAndVMT	WorkerTripNumber	1,421.00	0.00
tblTripsAndVMT	WorkerTripNumber	23.00	18.00
tblTripsAndVMT	WorkerTripNumber	284.00	0.00
tblVehicleTrips	ST_TR	1.59	5.00
tblVehicleTrips	ST_TR	7.16	8.00
tblVehicleTrips	ST_TR	0.00	52.70
tblVehicleTrips	ST_TR	8.19	8.00
tblVehicleTrips	ST_TR	10.08	10.00
tblVehicleTrips	ST_TR	42.04	120.00
tblVehicleTrips	SU_TR	1.59	5.00
tblVehicleTrips	SU_TR	6.07	8.00
tblVehicleTrips	SU_TR	0.00	52.70
tblVehicleTrips	SU_TR	5.95	8.00
tblVehicleTrips	SU_TR	8.77	10.00
tblVehicleTrips	SU_TR	20.43	120.00
tblVehicleTrips	WD_TR	1.59	5.00
tblVehicleTrips	WD_TR	6.59	8.00
tblVehicleTrips	WD_TR	1.29	1.50

tbVehicleTrips	WD_TR	68.93	52.70
tbVehicleTrips	WD_TR	8.17	8.00
tbVehicleTrips	WD_TR	9.57	10.00
tbVehicleTrips	WD_TR	44.32	120.00
tbWoodstoves	NumberCatalytic	2.85	0.00
tbWoodstoves	NumberCatalytic	94.05	0.00
tbWoodstoves	NumberNoncatalytic	2.85	0.00
tbWoodstoves	NumberNoncatalytic	94.05	0.00

2.0 Emissions Summary

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

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
Area	157.4210	1.8410	160.0308	8.4500e-003	3.4859	3.4859	3.4859	3.4585	3.4585	3.4585	0.0000	41,328.08	141,328.0861	1.0628	0.7524	141,583.649
Energy	2.1003	18.2428	9.7984	0.1146	1.4511	1.4511	1.4511	1.4511	1.4511	1.4511	69	22,912.50	22,912.5051	0.4392	0.4201	123,051.947
Mobile	68.7548	117.2359	638.7800	2.0577	145.2458	2.3181	147.5639	38.7693	2.1406	40.9099	149,135.3	57	149,135.31	5.1227	1.4201	149,242.89
Total	228.2761	137.3197	808.6091	2.1807	145.2458	7.2551	152.5008	38.7693	7.0502	45.8195	0.0000	213,375.9	213,375.91	6.6247	1.1725	213,878.49
												107	07			24

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	128.1070	1.8296	158.8794	8.3600e-003	3.4791	3.4791	3.4791	3.4517	3.4517	3.4517	0.0000	41,325.49	41,325.49	1.0588	0.7524	141,580.970
Energy	1.8493	16.0617	8.6206	0.1009	1.2777	1.2777	1.2777	1.2777	1.2777	1.2777	0.0000	20,174.24	20,174.24	0.3867	0.3699	20,297.024
Mobile	66.5199	107.0443	594.2286	1.8407	129.4140	2.0943	131.5083	34.5435	1.9341	36.4775	0.0000	133,394.6	133,394.63	4.6196	1.1223	133,491.64
Total	196.4762	124.9356	761.7286	1.9500	129.4140	6.8511	136.2651	34.5435	6.6635	41.2069	0.0000	194,894.3	194,894.37	6.0652	1.1223	195,369.64
												717	17			10

	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	13.93	9.02	5.80	10.58	10.90	5.57	10.65	10.90	5.49	10.07	0.00	8.66	8.66	8.45	4.28	8.65

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

- Increase Density
- Increase Diversity
- Improve Walkability Design
- Increase Transit Accessibility
- Improve Pedestrian Network
- Provide Traffic Calming Measures

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																
Unmitigated	68,7548	117,2359	638,7800	2,0577	145,2458	2,3181	147,5639	38,7693	2,1406	40,9099	149,135,3	149,135,31	5,1227			149,242,89
Mitigated	66,5199	107,0443	594,2286	1,8407	129,4140	2,0943	131,5083	34,5435	1,9341	36,4775	133,394,6	133,394,63	4,6196			133,491,64
											181	81				54
											329	29				53

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated		Mitigated	
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT	Annual VMT	Annual VMT
City Park	148.50	148.50	148.50	317,026	282,470		
Condo/Townhouse	456.00	456.00	456.00	1,302,018	1,160,098		
Elementary School	900.00	0.00	0.00	1,417,461	1,262,958		
Government Office Building	527.00	527.00	527.00	903,742	805,234		
Hotel	1,600.00	1,600.00	1,600.00	3,039,889	2,708,541		
Single Family Housing	18,810.00	18,810.00	18,810.00	53,708,256	47,854,056		
Strip Mall	4,800.00	4,800.00	4,800.00	7,392,159	6,586,413		
Total	27,241.50	26,341.50	26,341.50	68,080,551	60,659,771		

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-	H-S or C-C	H-O or C-NW	H-W or C-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by	
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6													
Condo/Townhouse	10.80	7.30	7.50	41.60	18.80	39.60	86	11	3													
Elementary School	9.50	7.30	7.30	65.00	30.00	5.00	63	25	12													
Government Office Building	9.50	7.30	7.30	33.00	62.00	5.00	50	34	16													
Hotel	9.50	7.30	7.30	19.40	61.60	19.00	58	38	4													
Single Family Housing	10.80	7.30	7.50	41.60	18.80	39.60	86	11	3													
Strip Mall	9.50	7.30	7.30	16.60	64.40	19.00	45	40	15													

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.511923	0.073395	0.191568	0.130918	0.036235	0.005199	0.012665	0.023708	0.001889	0.002027	0.006511	0.000534	0.003431

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Install Energy Efficient Appliances

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															
Natural Gas Mitigated	1.8493	16.0617	8.6206	0.1009	1.2777	1.2777	1.2777	1.2777	1.2777	1.2777	20,174.24	20,174.24	20,174.24	0.3867	0.3699	20,297.024
Natural Gas Unmitigated	2.1003	18.2428	9.7984	0.1146	1.4511	1.4511	1.4511	1.4511	1.4511	1.4511	22,912.50	22,912.50	22,912.50	0.4392	0.4201	23,051.947
											57	7				4

5.2 Energy by Land Use - Natural Gas

Unmitigated

Land Use	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day																
City Park	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
Condo/Townhouse	2153.67	0.0232	0.1985	0.0845	1.2700e-003	0.0161	0.0161	0.0161	0.0161	0.0161	0.0161	253.3730	253.3730	253.3730	4.8600e-003	4.6500e-003	254.9150
Elementary School	852.067	9.1900e-003	0.0835	0.0702	5.0000e-004	6.3500e-003	6.3500e-003	6.3500e-003	6.3500e-003	6.3500e-003	6.3500e-003	100.2432	100.2432	100.2432	1.9200e-003	1.8400e-003	100.8533
Government Office Building	576.164	6.2100e-003	0.0565	0.0475	3.4000e-004	4.2900e-003	4.2900e-003	4.2900e-003	4.2900e-003	4.2900e-003	4.2900e-003	67.7841	67.7841	67.7841	1.3000e-003	1.2400e-003	68.1966

Hotel	48413.3	0.5221	4.7464	3.9870	0.0285	0.3607	0.3607	0.3607	0.3607	5,695.6777	5,695.6777	0.1092	0.1044	15,730.3406
Single Family Housing	142510	1.5369	13.1333	5.5886	0.0838	1.0618	1.0618	1.0618	1.0618	16,765.903	16,765.903	0.3214	0.3074	16,867.937
Strip Mall	250.959	2.7100e-003	0.0246	0.0207	1.5000e-004	1.8700e-003	1.8700e-003	1.8700e-003	1.8700e-003	29.5246	29.5246	5.7000e-004	5.4000e-004	29.7043
Total		2.1003	18.2428	9.7984	0.1146	1.4511	1.4511	1.4511	1.4511	22,912.505	22,912.505	0.4392	0.4201	23,051.947

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
City Park	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
Condo/Townhouse	1.90093	0.0205	0.1752	0.0746	1.1200e-003	0.0142	0.0142	0.0142	0.0142	0.0142	0.0142	223.6389	223.6389	4,290.00e-003	4.2900e-003	4.1000e-003	225.0000
Elementary School	0.734152	7.9200e-003	0.0720	0.0605	4.3000e-004	5.4700e-003	5.4700e-003	5.4700e-003	5.4700e-003	5.4700e-003	5.4700e-003	86.3708	86.3708	1.6600e-003	1.6600e-003	1.5800e-003	86.8965
Government Office Building	0.507	5.4700e-003	0.0497	0.0418	3.0000e-004	3.7800e-003	3.7800e-003	3.7800e-003	3.7800e-003	3.7800e-003	3.7800e-003	59.6471	59.6471	1.1400e-003	1.1400e-003	1.0900e-003	60.0101
Hotel	42.476	0.4581	4.1643	3.4980	0.0250	0.3165	0.3165	0.3165	0.3165	0.3165	0.3165	14,997.1733	14,997.1733	0.0958	0.0958	0.0916	15,027.5852
Single Family Housing	125.632	1.3549	11.5778	4.9267	0.0739	0.9361	0.9361	0.9361	0.9361	0.9361	0.9361	114,780.213	114,780.213	0.2833	0.2833	0.2710	114,870.163
Strip Mall	0.231233	2.4900e-003	0.0227	0.0190	1.4000e-004	1.7200e-003	1.7200e-003	1.7200e-003	1.7200e-003	1.7200e-003	1.7200e-003	27.2039	27.2039	5.2000e-004	5.2000e-004	5.0000e-004	27.3694
Total		1.8493	16.0617	8.6206	0.1009	1.2777	1.2777	1.2777	1.2777	1.2777	1.2777	20,174.247	20,174.247	0.3699	0.3667	0.3699	20,297.024

6.0 Area Detail

6.1 Mitigation Measures Area

- Use Electric Lawnmower
- Use Electric Leafblower
- Use Electric Chainsaw

- Use Low VOC Paint - Residential Interior
- Use Low VOC Paint - Residential Exterior
- Use Low VOC Paint - Non-Residential Interior
- Use Low VOC Paint - Non-Residential Exterior
- Use Low VOC Cleaning Supplies

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															
Unmitigated	157.4210	1.8410	160.0308	8.4500e-003	3.4859	3.4859	3.4859	3.4585	3.4585	3.4585	0.0000	41,328.0869	41,328.0869	1.0628	0.7524	41,583.6495
Mitigated	128.1070	1.8296	158.8794	8.3600e-003	3.4791	3.4791	3.4791	3.4517	3.4517	3.4517	0.0000	41,325.4910	41,325.4910	1.0588	0.7524	41,560.9708

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	39.1349				0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Consumer Products	109.7198				0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Hearth	3.7620	1.700e-004	0.2052	0.0000	2.5992	2.5992	2.5992	2.5718	2.5718	2.5718	0.0000	41,040.0000	41,040.0000	0.7866	0.7524	41,289.7626
Landscaping	4.8043	1.8408	159.8256	8.4500e-003	0.8867	0.8867	0.8867	0.8867	0.8867	0.8867		288.0869	288.0869	0.2762		293.8869
Total	157.4210	1.8410	160.0308	8.4500e-003	3.4859	3.4859	3.4859	3.4585	3.4585	3.4585	0.0000	41,328.0869	41,328.0869	1.0628	0.7524	41,583.6495

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	18.0919				0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Consumer Products	101.5165				0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Hearth	3.7620	1.7000e-004	0.2052	0.0000	2.5992	2.5992	2.5992	2.5718	2.5718	2.5718	0.0000	41,040.0000	141,040.0000	0.7866	0.7524	141,289.7626
Landscaping	4.7366	1.8294	158.8742	8.3600e-003	0.8799	0.8799	0.8799	0.8799	0.8799	0.8799		285.4910	285.4910	0.2722		291.2082
Total	128.1070	1.8296	158.8794	8.3600e-003	3.4791	3.4791	3.4791	3.4517	3.4517	3.4517	0.0000	41,325.4910	41,325.4910	1.0588	0.7524	41,580.9708

7.0 Water Detail

7.1 Mitigation Measures Water

- Install Low Flow Bathroom Faucet
- Install Low Flow Kitchen Faucet
- Install Low Flow Toilet
- Install Low Flow Shower
- Use Water Efficient Irrigation System

8.0 Waste Detail

8.1 Mitigation Measures Waste

- Institute Recycling and Composting Services

9.0 Operational Offroad

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

10.0 Vegetation

APPENDIX B

Risk Screening Calculations

Table B-1
Diesel Particulate Matter Emissions Calculations
Construction Health Risk Assessment

Year	Emissions, tpy	Emissions, grams/sec
2015	0.7618	0.03076432
2016	0.7113	0.02872494
2017	0.6507	0.02627769
2018	0.5535	0.02235239
2019	0.4939	0.01994552
2020	0.4478	0.01808383
2021	0.3854	0.01556389
2022	0.3328	0.0134397
2023	0.2984	0.0120505
2024	0.2612	0.01054823
2025	0.1236	0.00499143
AVERAGE		0.01843113

07/31/14

10:12:59

*** SCREEN3 MODEL RUN ***

*** VERSION DATED 96043 ***

Otay Ranch Resort Village Construction HRA

SIMPLE TERRAIN INPUTS:

SOURCE TYPE = VOLUME
EMISSION RATE (G/S) = .184310E-01
SOURCE HEIGHT (M) = 5.0000
INIT. LATERAL DIMEN (M) = 100.0000
INIT. VERTICAL DIMEN (M) = 4.6500
RECEPTOR HEIGHT (M) = .0000
URBAN/RURAL OPTION = URBAN

THE REGULATORY (DEFAULT) MIXING HEIGHT OPTION WAS SELECTED.

THE REGULATORY (DEFAULT) ANEMOMETER HEIGHT OF 10.0 METERS WAS ENTERED.

BUOY. FLUX = .000 M**4/S**3; MOM. FLUX = .000 M**4/S**2.

*** FULL METEOROLOGY ***

*** SCREEN AUTOMATED DISTANCES ***

*** TERRAIN HEIGHT OF 0. M ABOVE STACK BASE USED FOR FOLLOWING DISTANCES ***

DIST	CONC	U10M	USTK	MIX HT	PLUME	SIGMA	SIGMA		
(M)	(UG/M**3)	STAB (M/S)	(M/S)	(M)	HT (M)	Y (M)	Z (M)	DWASH	
100.	.0000	0	.0	.0	.0	.00	.00	.00	
200.	.0000	0	.0	.0	.0	.00	.00	.00	
300.	2.013	5	1.0	1.0	10000.0	5.00	122.52	23.25	NO
400.	1.571	5	1.0	1.0	10000.0	5.00	129.69	28.34	NO
500.	1.283	5	1.0	1.0	10000.0	5.00	136.69	33.06	NO
600.	1.081	5	1.0	1.0	10000.0	5.00	143.55	37.46	NO
700.	.9320	5	1.0	1.0	10000.0	5.00	150.26	41.59	NO
800.	.8173	5	1.0	1.0	10000.0	5.00	156.84	45.49	NO
900.	.7266	5	1.0	1.0	10000.0	5.00	163.29	49.19	NO
1000.	.6531	5	1.0	1.0	10000.0	5.00	169.62	52.72	NO

MAXIMUM 1-HR CONCENTRATION AT OR BEYOND 100. M:

216.	2.613	5	1.0	1.0	10000.0	5.00	116.45	18.67	NO
------	-------	---	-----	-----	---------	------	--------	-------	----

DWASH= MEANS NO CALC MADE (CONC = 0.0)

DWASH=NO MEANS NO BUILDING DOWNWASH USED
 DWASH=HS MEANS HUBER-SNYDER DOWNWASH USED
 DWASH=SS MEANS SCHULMAN-SCIRE DOWNWASH USED
 DWASH=NA MEANS DOWNWASH NOT APPLICABLE, X<3*LB

*** SCREEN DISCRETE DISTANCES ***

*** TERRAIN HEIGHT OF 0. M ABOVE STACK BASE USED FOR FOLLOWING
 DISTANCES ***

DIST	CONC	U10M	USTK	MIX HT	PLUME	SIGMA	SIGMA	
(M)	(UG/M**3)	STAB (M/S)	(M/S)	(M)	HT (M)	Y (M)	Z (M)	DWASH

518.	1.242	5	1.0	1.0	10000.0	5.00	137.94	33.87	NO
------	-------	---	-----	-----	---------	------	--------	-------	----

DWASH= MEANS NO CALC MADE (CONC = 0.0)
 DWASH=NO MEANS NO BUILDING DOWNWASH USED
 DWASH=HS MEANS HUBER-SNYDER DOWNWASH USED
 DWASH=SS MEANS SCHULMAN-SCIRE DOWNWASH USED
 DWASH=NA MEANS DOWNWASH NOT APPLICABLE, X<3*LB

* SUMMARY OF TERRAIN HEIGHTS ENTERED FOR *

* SIMPLE ELEVATED TERRAIN PROCEDURE *

TERRAIN DISTANCE RANGE (M)

HT (M) MINIMUM MAXIMUM

----- ----- -----

0. 100. 1000.

0. 518. --

*** SUMMARY OF SCREEN MODEL RESULTS ***

CALCULATION MAX CONC DIST TO TERRAIN

PROCEDURE (UG/M**3) MAX (M) HT (M)

----- ----- ----- -----

SIMPLE TERRAIN 2.613 216. 0.

** REMEMBER TO INCLUDE BACKGROUND CONCENTRATIONS **
