

# Appendix D

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Air Quality/Greenhouse Gas Emissions Modeling



San Luis Ranch Project - 2017 Start - San Luis Obispo County APCD Air District, Annual

**San Luis Ranch Project - 2017 Start**  
**San Luis Obispo County APCD Air District, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	1.23	Acre	1.23	53,361.00	0
Parking Lot	1.00	Acre	1.00	43,560.00	0
Parking Lot	1.30	Acre	1.30	56,628.00	0
Single Family Housing	86.00	Dwelling Unit	8.00	154,800.00	246
Regional Shopping Center	50.00	1000sqft	1.15	50,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	3.2	<b>Precipitation Freq (Days)</b>	44
<b>Climate Zone</b>	4			<b>Operational Year</b>	2019
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	641.35	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

**1.3 User Entered Comments & Non-Default Data**

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Project Characteristics -

Land Use - Land use values from buildout and phasing in Specific Plan Section 7.7. Includes portions of Phases 1, 2, and 6, and improvements to Froom Ext and Madonna Rd

Construction Phase - No demolition in phases 1, 2, and 6. AC expected to overlap with half of building construction as painting would occur as buildings are finished.

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Grading - Total import proportionally distributed by phase acreage.

Vehicle Trips - Trip generation rate based on Omni-Means 2016 Traffic Impact Study.

Mobile Land Use Mitigation - Trip reductions from project's density, diversity, and access to alternative transportation accounted for in trip generation rates.

Energy Mitigation - Per Specific Plan, appliances will be energy efficient.

Water Mitigation -

Architectural Coating -

Woodstoves -

Construction Off-road Equipment Mitigation -

Area Mitigation -

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Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	0
tblConstructionPhase	NumDays	20.00	150.00
tblGrading	MaterialImported	0.00	44,640.00
tblLandUse	BuildingSpaceSquareFeet	53,578.80	53,361.00
tblLandUse	LandUseSquareFeet	53,578.80	53,361.00
tblLandUse	LotAcreage	27.92	8.00
tblProjectCharacteristics	OperationalYear	2018	2019
tblVehicleTrips	ST_TR	49.97	10.38
tblVehicleTrips	ST_TR	9.91	5.29
tblVehicleTrips	SU_TR	25.24	5.24
tblVehicleTrips	SU_TR	8.62	4.61
tblVehicleTrips	WD_TR	42.70	8.87
tblVehicleTrips	WD_TR	9.52	5.09

## 2.0 Emissions Summary

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Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-2-2017	4-1-2017	2.8545	2.8545
2	4-2-2017	7-1-2017	1.1887	1.1887
3	7-2-2017	10-1-2017	1.2018	1.2018
4	10-2-2017	1-1-2018	2.6267	2.6267
5	1-2-2018	4-1-2018	2.4309	2.4309
6	4-2-2018	7-1-2018	0.8030	0.8030
		Highest	2.8545	2.8545

**2.2 Overall Operational**  
Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.1492	0.0136	1.1774	6.0000e-005		6.4500e-003	6.4500e-003		6.4500e-003	6.4500e-003	0.0000	1.9141	1.9141	1.8800e-003	0.0000	1.9611
Energy	0.0173	0.1483	0.0655	9.4000e-004		0.0120	0.0120		0.0120	0.0120	0.0000	586.5434	586.5434	0.0221	7.0300e-003	589.1884
Mobile	0.3213	1.2896	3.4596	7.8700e-003	0.6478	0.0118	0.6596	0.1736	0.0111	0.1847	0.0000	718.0401	718.0401	0.0347	0.0000	718.9075
Waste						0.0000	0.0000		0.0000	0.0000	31.1307	0.0000	31.1307	1.8398	0.0000	77.1250
Water						0.0000	0.0000		0.0000	0.0000	2.9526	20.5581	23.5108	0.3042	7.3500e-003	33.3069
<b>Total</b>	<b>1.4877</b>	<b>1.4516</b>	<b>4.7025</b>	<b>8.8700e-003</b>	<b>0.6478</b>	<b>0.0302</b>	<b>0.6780</b>	<b>0.1736</b>	<b>0.0295</b>	<b>0.2031</b>	<b>34.0833</b>	<b>1,327.0557</b>	<b>1,361.1390</b>	<b>2.2026</b>	<b>0.0144</b>	<b>1,420.4888</b>

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**2.2 Overall Operational**

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.1492	0.0136	1.1774	6.0000e-005		6.4500e-003	6.4500e-003		6.4500e-003	6.4500e-003	0.0000	1.9141	1.9141	1.8800e-003	0.0000	1.9611
Energy	0.0173	0.1483	0.0655	9.4000e-004		0.0120	0.0120		0.0120	0.0120	0.0000	582.3375	582.3375	0.0219	6.9900e-003	584.9661
Mobile	0.3213	1.2896	3.4596	7.8700e-003	0.6478	0.0118	0.6596	0.1736	0.0111	0.1847	0.0000	718.0401	718.0401	0.0347	0.0000	718.9075
Waste						0.0000	0.0000		0.0000	0.0000	31.1307	0.0000	31.1307	1.8398	0.0000	77.1250
Water						0.0000	0.0000		0.0000	0.0000	2.9526	20.5581	23.5108	0.3042	7.3500e-003	33.3069
<b>Total</b>	<b>1.4877</b>	<b>1.4516</b>	<b>4.7025</b>	<b>8.8700e-003</b>	<b>0.6478</b>	<b>0.0302</b>	<b>0.6780</b>	<b>0.1736</b>	<b>0.0295</b>	<b>0.2031</b>	<b>34.0833</b>	<b>1,322.8498</b>	<b>1,356.9332</b>	<b>2.2024</b>	<b>0.0143</b>	<b>1,416.2665</b>

	ROG	NOx	CO	SO2	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	0.32	0.31	0.01	0.28	0.30

**3.0 Construction Detail**

**Construction Phase**

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Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/2/2017	1/13/2017	5	10	
2	Grading	Grading	1/16/2017	2/24/2017	5	30	
3	Building Construction	Building Construction	2/27/2017	4/20/2018	5	300	
4	Architectural Coating	Architectural Coating	10/2/2017	4/27/2018	5	150	
5	Paving	Paving	4/23/2018	5/18/2018	5	20	

**Acres of Grading (Site Preparation Phase): 0**

**Acres of Grading (Grading Phase): 75**

**Acres of Paving: 3.53**

**Residential Indoor: 313,470; Residential Outdoor: 104,490; Non-Residential Indoor: 75,000; Non-Residential Outdoor: 25,000; Striped Parking Area: 9,213 (Architectural Coating – sqft)**

**OffRoad Equipment**



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Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	5,580.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	111.00	43.00	0.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	22.00	0.00	0.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

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Clean Paved Roads

**3.2 Site Preparation - 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	tons/yr										MT/yr					
Fugitive Dust					0.0903	0.0000	0.0903	0.0497	0.0000	0.0497	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0248	0.2614	0.1173	1.9000e-004		0.0144	0.0144		0.0132	0.0132	0.0000	17.6672	17.6672	5.4100e-003	0.0000	17.8025
<b>Total</b>	<b>0.0248</b>	<b>0.2614</b>	<b>0.1173</b>	<b>1.9000e-004</b>	<b>0.0903</b>	<b>0.0144</b>	<b>0.1047</b>	<b>0.0497</b>	<b>0.0132</b>	<b>0.0629</b>	<b>0.0000</b>	<b>17.6672</b>	<b>17.6672</b>	<b>5.4100e-003</b>	<b>0.0000</b>	<b>17.8025</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.5000e-004	5.4000e-004	4.6600e-003	1.0000e-005	8.7000e-004	1.0000e-005	8.7000e-004	2.3000e-004	1.0000e-005	2.4000e-004	0.0000	0.7921	0.7921	4.0000e-005	0.0000	0.7930
<b>Total</b>	<b>5.5000e-004</b>	<b>5.4000e-004</b>	<b>4.6600e-003</b>	<b>1.0000e-005</b>	<b>8.7000e-004</b>	<b>1.0000e-005</b>	<b>8.7000e-004</b>	<b>2.3000e-004</b>	<b>1.0000e-005</b>	<b>2.4000e-004</b>	<b>0.0000</b>	<b>0.7921</b>	<b>0.7921</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>0.7930</b>

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**3.2 Site Preparation - 2017**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0903	0.0000	0.0903	0.0497	0.0000	0.0497	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0248	0.2614	0.1173	1.9000e-004		0.0144	0.0144		0.0132	0.0132	0.0000	17.6672	17.6672	5.4100e-003	0.0000	17.8025
<b>Total</b>	<b>0.0248</b>	<b>0.2614</b>	<b>0.1173</b>	<b>1.9000e-004</b>	<b>0.0903</b>	<b>0.0144</b>	<b>0.1047</b>	<b>0.0497</b>	<b>0.0132</b>	<b>0.0629</b>	<b>0.0000</b>	<b>17.6672</b>	<b>17.6672</b>	<b>5.4100e-003</b>	<b>0.0000</b>	<b>17.8025</b>

**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	5.5000e-004	5.4000e-004	4.6600e-003	1.0000e-005	8.7000e-004	1.0000e-005	8.7000e-004	2.3000e-004	1.0000e-005	2.4000e-004	0.0000	0.7921	0.7921	4.0000e-005	0.0000	0.7930
<b>Total</b>	<b>5.5000e-004</b>	<b>5.4000e-004</b>	<b>4.6600e-003</b>	<b>1.0000e-005</b>	<b>8.7000e-004</b>	<b>1.0000e-005</b>	<b>8.7000e-004</b>	<b>2.3000e-004</b>	<b>1.0000e-005</b>	<b>2.4000e-004</b>	<b>0.0000</b>	<b>0.7921</b>	<b>0.7921</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>0.7930</b>

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**3.3 Grading - 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	tons/yr										MT/yr					
Fugitive Dust					0.1342	0.0000	0.1342	0.0546	0.0000	0.0546	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0862	1.0191	0.5817	9.3000e-004		0.0461	0.0461		0.0424	0.0424	0.0000	86.3398	86.3398	0.0265	0.0000	87.0011
<b>Total</b>	<b>0.0862</b>	<b>1.0191</b>	<b>0.5817</b>	<b>9.3000e-004</b>	<b>0.1342</b>	<b>0.0461</b>	<b>0.1803</b>	<b>0.0546</b>	<b>0.0424</b>	<b>0.0970</b>	<b>0.0000</b>	<b>86.3398</b>	<b>86.3398</b>	<b>0.0265</b>	<b>0.0000</b>	<b>87.0011</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0398	1.1340	0.2632	2.2600e-003	0.0475	0.0108	0.0583	0.0130	0.0103	0.0233	0.0000	219.9381	219.9381	0.0124	0.0000	220.2484
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	1.8300e-003	1.7900e-003	0.0156	3.0000e-005	2.8900e-003	2.0000e-005	2.9100e-003	7.7000e-004	2.0000e-005	7.9000e-004	0.0000	2.6404	2.6404	1.2000e-004	0.0000	2.6435
<b>Total</b>	<b>0.0416</b>	<b>1.1358</b>	<b>0.2787</b>	<b>2.2900e-003</b>	<b>0.0504</b>	<b>0.0108</b>	<b>0.0612</b>	<b>0.0138</b>	<b>0.0103</b>	<b>0.0241</b>	<b>0.0000</b>	<b>222.5785</b>	<b>222.5785</b>	<b>0.0125</b>	<b>0.0000</b>	<b>222.8919</b>

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**3.3 Grading - 2017**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1342	0.0000	0.1342	0.0546	0.0000	0.0546	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0862	1.0191	0.5817	9.3000e-004		0.0461	0.0461		0.0424	0.0424	0.0000	86.3397	86.3397	0.0265	0.0000	87.0010
<b>Total</b>	<b>0.0862</b>	<b>1.0191</b>	<b>0.5817</b>	<b>9.3000e-004</b>	<b>0.1342</b>	<b>0.0461</b>	<b>0.1803</b>	<b>0.0546</b>	<b>0.0424</b>	<b>0.0970</b>	<b>0.0000</b>	<b>86.3397</b>	<b>86.3397</b>	<b>0.0265</b>	<b>0.0000</b>	<b>87.0010</b>

**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	0.0398	1.1340	0.2632	2.2600e-003	0.0475	0.0108	0.0583	0.0130	0.0103	0.0233	0.0000	219.9381	219.9381	0.0124	0.0000	220.2484
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	1.8300e-003	1.7900e-003	0.0156	3.0000e-005	2.8900e-003	2.0000e-005	2.9100e-003	7.7000e-004	2.0000e-005	7.9000e-004	0.0000	2.6404	2.6404	1.2000e-004	0.0000	2.6435
<b>Total</b>	<b>0.0416</b>	<b>1.1358</b>	<b>0.2787</b>	<b>2.2900e-003</b>	<b>0.0504</b>	<b>0.0108</b>	<b>0.0612</b>	<b>0.0138</b>	<b>0.0103</b>	<b>0.0241</b>	<b>0.0000</b>	<b>222.5785</b>	<b>222.5785</b>	<b>0.0125</b>	<b>0.0000</b>	<b>222.8919</b>

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**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	tons/yr										MT/yr					
Off-Road	0.3426	2.9210	2.0001	2.9600e-003		0.1967	0.1967		0.1847	0.1847	0.0000	264.5421	264.5421	0.0652	0.0000	266.1715
<b>Total</b>	<b>0.3426</b>	<b>2.9210</b>	<b>2.0001</b>	<b>2.9600e-003</b>		<b>0.1967</b>	<b>0.1967</b>		<b>0.1847</b>	<b>0.1847</b>	<b>0.0000</b>	<b>264.5421</b>	<b>264.5421</b>	<b>0.0652</b>	<b>0.0000</b>	<b>266.1715</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0292	0.6001	0.2142	9.5000e-004	0.0215	6.5100e-003	0.0280	6.2000e-003	6.2200e-003	0.0124	0.0000	91.2452	91.2452	6.3700e-003	0.0000	91.4044
Worker	0.0747	0.0727	0.6327	1.1900e-003	0.1176	8.7000e-004	0.1184	0.0312	8.0000e-004	0.0320	0.0000	107.4652	107.4652	4.9600e-003	0.0000	107.5892
<b>Total</b>	<b>0.1039</b>	<b>0.6727</b>	<b>0.8469</b>	<b>2.1400e-003</b>	<b>0.1390</b>	<b>7.3800e-003</b>	<b>0.1464</b>	<b>0.0374</b>	<b>7.0200e-003</b>	<b>0.0445</b>	<b>0.0000</b>	<b>198.7104</b>	<b>198.7104</b>	<b>0.0113</b>	<b>0.0000</b>	<b>198.9936</b>

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**3.4 Building Construction - 2017**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.3426	2.9210	2.0001	2.9600e-003		0.1967	0.1967		0.1847	0.1847	0.0000	264.5418	264.5418	0.0652	0.0000	266.1712
<b>Total</b>	<b>0.3426</b>	<b>2.9210</b>	<b>2.0001</b>	<b>2.9600e-003</b>		<b>0.1967</b>	<b>0.1967</b>		<b>0.1847</b>	<b>0.1847</b>	<b>0.0000</b>	<b>264.5418</b>	<b>264.5418</b>	<b>0.0652</b>	<b>0.0000</b>	<b>266.1712</b>

**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	0.0292	0.6001	0.2142	9.5000e-004	0.0215	6.5100e-003	0.0280	6.2000e-003	6.2200e-003	0.0124	0.0000	91.2452	91.2452	6.3700e-003	0.0000	91.4044
Worker	0.0747	0.0727	0.6327	1.1900e-003	0.1176	8.7000e-004	0.1184	0.0312	8.0000e-004	0.0320	0.0000	107.4652	107.4652	4.9600e-003	0.0000	107.5892
<b>Total</b>	<b>0.1039</b>	<b>0.6727</b>	<b>0.8469</b>	<b>2.1400e-003</b>	<b>0.1390</b>	<b>7.3800e-003</b>	<b>0.1464</b>	<b>0.0374</b>	<b>7.0200e-003</b>	<b>0.0445</b>	<b>0.0000</b>	<b>198.7104</b>	<b>198.7104</b>	<b>0.0113</b>	<b>0.0000</b>	<b>198.9936</b>

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**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	tons/yr										MT/yr					
Off-Road	0.1072	0.9356	0.7032	1.0800e-003		0.0600	0.0600		0.0564	0.0564	0.0000	95.1069	95.1069	0.0233	0.0000	95.6894
<b>Total</b>	<b>0.1072</b>	<b>0.9356</b>	<b>0.7032</b>	<b>1.0800e-003</b>		<b>0.0600</b>	<b>0.0600</b>		<b>0.0564</b>	<b>0.0564</b>	<b>0.0000</b>	<b>95.1069</b>	<b>95.1069</b>	<b>0.0233</b>	<b>0.0000</b>	<b>95.6894</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.2500e-003	0.2064	0.0697	3.5000e-004	7.8100e-003	1.9100e-003	9.7200e-003	2.2600e-003	1.8300e-003	4.0900e-003	0.0000	33.2251	33.2251	2.2100e-003	0.0000	33.2802
Worker	0.0238	0.0229	0.1980	4.2000e-004	0.0427	3.0000e-004	0.0430	0.0114	2.8000e-004	0.0116	0.0000	38.0196	38.0196	1.5700e-003	0.0000	38.0588
<b>Total</b>	<b>0.0330</b>	<b>0.2293</b>	<b>0.2678</b>	<b>7.7000e-004</b>	<b>0.0506</b>	<b>2.2100e-003</b>	<b>0.0528</b>	<b>0.0136</b>	<b>2.1100e-003</b>	<b>0.0157</b>	<b>0.0000</b>	<b>71.2447</b>	<b>71.2447</b>	<b>3.7800e-003</b>	<b>0.0000</b>	<b>71.3390</b>



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**3.4 Building Construction - 2018**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1072	0.9356	0.7032	1.0800e-003		0.0600	0.0600		0.0564	0.0564	0.0000	95.1068	95.1068	0.0233	0.0000	95.6893
<b>Total</b>	<b>0.1072</b>	<b>0.9356</b>	<b>0.7032</b>	<b>1.0800e-003</b>		<b>0.0600</b>	<b>0.0600</b>		<b>0.0564</b>	<b>0.0564</b>	<b>0.0000</b>	<b>95.1068</b>	<b>95.1068</b>	<b>0.0233</b>	<b>0.0000</b>	<b>95.6893</b>

**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	9.2500e-003	0.2064	0.0697	3.5000e-004	7.8100e-003	1.9100e-003	9.7200e-003	2.2600e-003	1.8300e-003	4.0900e-003	0.0000	33.2251	33.2251	2.2100e-003	0.0000	33.2802
Worker	0.0238	0.0229	0.1980	4.2000e-004	0.0427	3.0000e-004	0.0430	0.0114	2.8000e-004	0.0116	0.0000	38.0196	38.0196	1.5700e-003	0.0000	38.0588
<b>Total</b>	<b>0.0330</b>	<b>0.2293</b>	<b>0.2678</b>	<b>7.7000e-004</b>	<b>0.0506</b>	<b>2.2100e-003</b>	<b>0.0528</b>	<b>0.0136</b>	<b>2.1100e-003</b>	<b>0.0157</b>	<b>0.0000</b>	<b>71.2447</b>	<b>71.2447</b>	<b>3.7800e-003</b>	<b>0.0000</b>	<b>71.3390</b>

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**3.5 Architectural Coating - 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	tons/yr										MT/yr					
Archit. Coating	1.3143					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0108	0.0710	0.0607	1.0000e-004		5.6300e-003	5.6300e-003		5.6300e-003	5.6300e-003	0.0000	8.2981	8.2981	8.8000e-004	0.0000	8.3200
<b>Total</b>	<b>1.3251</b>	<b>0.0710</b>	<b>0.0607</b>	<b>1.0000e-004</b>		<b>5.6300e-003</b>	<b>5.6300e-003</b>		<b>5.6300e-003</b>	<b>5.6300e-003</b>	<b>0.0000</b>	<b>8.2981</b>	<b>8.2981</b>	<b>8.8000e-004</b>	<b>0.0000</b>	<b>8.3200</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.3700e-003	4.2600e-003	0.0371	7.0000e-005	6.8800e-003	5.0000e-005	6.9300e-003	1.8300e-003	5.0000e-005	1.8800e-003	0.0000	6.2930	6.2930	2.9000e-004	0.0000	6.3003
<b>Total</b>	<b>4.3700e-003</b>	<b>4.2600e-003</b>	<b>0.0371</b>	<b>7.0000e-005</b>	<b>6.8800e-003</b>	<b>5.0000e-005</b>	<b>6.9300e-003</b>	<b>1.8300e-003</b>	<b>5.0000e-005</b>	<b>1.8800e-003</b>	<b>0.0000</b>	<b>6.2930</b>	<b>6.2930</b>	<b>2.9000e-004</b>	<b>0.0000</b>	<b>6.3003</b>

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**3.5 Architectural Coating - 2017**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.3143					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0108	0.0710	0.0607	1.0000e-004		5.6300e-003	5.6300e-003		5.6300e-003	5.6300e-003	0.0000	8.2981	8.2981	8.8000e-004	0.0000	8.3200
<b>Total</b>	<b>1.3251</b>	<b>0.0710</b>	<b>0.0607</b>	<b>1.0000e-004</b>		<b>5.6300e-003</b>	<b>5.6300e-003</b>		<b>5.6300e-003</b>	<b>5.6300e-003</b>	<b>0.0000</b>	<b>8.2981</b>	<b>8.2981</b>	<b>8.8000e-004</b>	<b>0.0000</b>	<b>8.3200</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.3700e-003	4.2600e-003	0.0371	7.0000e-005	6.8800e-003	5.0000e-005	6.9300e-003	1.8300e-003	5.0000e-005	1.8800e-003	0.0000	6.2930	6.2930	2.9000e-004	0.0000	6.3003
<b>Total</b>	<b>4.3700e-003</b>	<b>4.2600e-003</b>	<b>0.0371</b>	<b>7.0000e-005</b>	<b>6.8800e-003</b>	<b>5.0000e-005</b>	<b>6.9300e-003</b>	<b>1.8300e-003</b>	<b>5.0000e-005</b>	<b>1.8800e-003</b>	<b>0.0000</b>	<b>6.2930</b>	<b>6.2930</b>	<b>2.9000e-004</b>	<b>0.0000</b>	<b>6.3003</b>

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**3.5 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	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.7187					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0127	0.0852	0.0788	1.3000e-004		6.4000e-003	6.4000e-003		6.4000e-003	6.4000e-003	0.0000	10.8514	10.8514	1.0300e-003	0.0000	10.8771
<b>Total</b>	<b>1.7314</b>	<b>0.0852</b>	<b>0.0788</b>	<b>1.3000e-004</b>		<b>6.4000e-003</b>	<b>6.4000e-003</b>		<b>6.4000e-003</b>	<b>6.4000e-003</b>	<b>0.0000</b>	<b>10.8514</b>	<b>10.8514</b>	<b>1.0300e-003</b>	<b>0.0000</b>	<b>10.8771</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.0000e-003	4.8200e-003	0.0417	9.0000e-005	9.0000e-003	6.0000e-005	9.0600e-003	2.3900e-003	6.0000e-005	2.4500e-003	0.0000	8.0064	8.0064	3.3000e-004	0.0000	8.0146
<b>Total</b>	<b>5.0000e-003</b>	<b>4.8200e-003</b>	<b>0.0417</b>	<b>9.0000e-005</b>	<b>9.0000e-003</b>	<b>6.0000e-005</b>	<b>9.0600e-003</b>	<b>2.3900e-003</b>	<b>6.0000e-005</b>	<b>2.4500e-003</b>	<b>0.0000</b>	<b>8.0064</b>	<b>8.0064</b>	<b>3.3000e-004</b>	<b>0.0000</b>	<b>8.0146</b>

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**3.5 Architectural Coating - 2018**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.7187					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0127	0.0852	0.0788	1.3000e-004		6.4000e-003	6.4000e-003		6.4000e-003	6.4000e-003	0.0000	10.8513	10.8513	1.0300e-003	0.0000	10.8771
<b>Total</b>	<b>1.7314</b>	<b>0.0852</b>	<b>0.0788</b>	<b>1.3000e-004</b>		<b>6.4000e-003</b>	<b>6.4000e-003</b>		<b>6.4000e-003</b>	<b>6.4000e-003</b>	<b>0.0000</b>	<b>10.8513</b>	<b>10.8513</b>	<b>1.0300e-003</b>	<b>0.0000</b>	<b>10.8771</b>

**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	5.0000e-003	4.8200e-003	0.0417	9.0000e-005	9.0000e-003	6.0000e-005	9.0600e-003	2.3900e-003	6.0000e-005	2.4500e-003	0.0000	8.0064	8.0064	3.3000e-004	0.0000	8.0146
<b>Total</b>	<b>5.0000e-003</b>	<b>4.8200e-003</b>	<b>0.0417</b>	<b>9.0000e-005</b>	<b>9.0000e-003</b>	<b>6.0000e-005</b>	<b>9.0600e-003</b>	<b>2.3900e-003</b>	<b>6.0000e-005</b>	<b>2.4500e-003</b>	<b>0.0000</b>	<b>8.0064</b>	<b>8.0064</b>	<b>3.3000e-004</b>	<b>0.0000</b>	<b>8.0146</b>

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**3.6 Paving - 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	tons/yr										MT/yr					
Off-Road	0.0164	0.1752	0.1480	2.3000e-004		9.5600e-003	9.5600e-003		8.8000e-003	8.8000e-003	0.0000	20.8116	20.8116	6.4800e-003	0.0000	20.9736
Paving	4.6200e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0211</b>	<b>0.1752</b>	<b>0.1480</b>	<b>2.3000e-004</b>		<b>9.5600e-003</b>	<b>9.5600e-003</b>		<b>8.8000e-003</b>	<b>8.8000e-003</b>	<b>0.0000</b>	<b>20.8116</b>	<b>20.8116</b>	<b>6.4800e-003</b>	<b>0.0000</b>	<b>20.9736</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.0000e-004	7.7000e-004	6.6900e-003	1.0000e-005	1.4400e-003	1.0000e-005	1.4500e-003	3.8000e-004	1.0000e-005	3.9000e-004	0.0000	1.2845	1.2845	5.0000e-005	0.0000	1.2858
<b>Total</b>	<b>8.0000e-004</b>	<b>7.7000e-004</b>	<b>6.6900e-003</b>	<b>1.0000e-005</b>	<b>1.4400e-003</b>	<b>1.0000e-005</b>	<b>1.4500e-003</b>	<b>3.8000e-004</b>	<b>1.0000e-005</b>	<b>3.9000e-004</b>	<b>0.0000</b>	<b>1.2845</b>	<b>1.2845</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>1.2858</b>

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**3.6 Paving - 2018**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0164	0.1752	0.1480	2.3000e-004		9.5600e-003	9.5600e-003		8.8000e-003	8.8000e-003	0.0000	20.8116	20.8116	6.4800e-003	0.0000	20.9736
Paving	4.6200e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0211</b>	<b>0.1752</b>	<b>0.1480</b>	<b>2.3000e-004</b>		<b>9.5600e-003</b>	<b>9.5600e-003</b>		<b>8.8000e-003</b>	<b>8.8000e-003</b>	<b>0.0000</b>	<b>20.8116</b>	<b>20.8116</b>	<b>6.4800e-003</b>	<b>0.0000</b>	<b>20.9736</b>

**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	8.0000e-004	7.7000e-004	6.6900e-003	1.0000e-005	1.4400e-003	1.0000e-005	1.4500e-003	3.8000e-004	1.0000e-005	3.9000e-004	0.0000	1.2845	1.2845	5.0000e-005	0.0000	1.2858
<b>Total</b>	<b>8.0000e-004</b>	<b>7.7000e-004</b>	<b>6.6900e-003</b>	<b>1.0000e-005</b>	<b>1.4400e-003</b>	<b>1.0000e-005</b>	<b>1.4500e-003</b>	<b>3.8000e-004</b>	<b>1.0000e-005</b>	<b>3.9000e-004</b>	<b>0.0000</b>	<b>1.2845</b>	<b>1.2845</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>1.2858</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.3213	1.2896	3.4596	7.8700e-003	0.6478	0.0118	0.6596	0.1736	0.0111	0.1847	0.0000	718.0401	718.0401	0.0347	0.0000	718.9075
Unmitigated	0.3213	1.2896	3.4596	7.8700e-003	0.6478	0.0118	0.6596	0.1736	0.0111	0.1847	0.0000	718.0401	718.0401	0.0347	0.0000	718.9075

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Regional Shopping Center	443.50	519.00	262.00	618,505	618,505
Single Family Housing	437.74	454.94	396.46	1,103,798	1,103,798
<b>Total</b>	<b>881.24</b>	<b>973.94</b>	<b>658.46</b>	<b>1,722,303</b>	<b>1,722,303</b>

**4.3 Trip Type Information**



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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
Parking Lot	13.00	5.00	5.00	0.00	0.00	0.00	0	0	0
Parking Lot	13.00	5.00	5.00	0.00	0.00	0.00	0	0	0
Parking Lot	13.00	5.00	5.00	0.00	0.00	0.00	0	0	0
Regional Shopping Center	13.00	5.00	5.00	16.30	64.70	19.00	54	35	11
Single Family Housing	13.00	5.00	5.00	35.80	21.00	43.20	86	11	3

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Parking Lot	0.549382	0.034064	0.198767	0.132360	0.033447	0.007872	0.013134	0.018943	0.002404	0.001320	0.005630	0.000825	0.001852
Parking Lot	0.549382	0.034064	0.198767	0.132360	0.033447	0.007872	0.013134	0.018943	0.002404	0.001320	0.005630	0.000825	0.001852
Parking Lot	0.549382	0.034064	0.198767	0.132360	0.033447	0.007872	0.013134	0.018943	0.002404	0.001320	0.005630	0.000825	0.001852
Single Family Housing	0.549382	0.034064	0.198767	0.132360	0.033447	0.007872	0.013134	0.018943	0.002404	0.001320	0.005630	0.000825	0.001852
Regional Shopping Center	0.549382	0.034064	0.198767	0.132360	0.033447	0.007872	0.013134	0.018943	0.002404	0.001320	0.005630	0.000825	0.001852

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

Install Energy Efficient Appliances

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	410.9905	410.9905	0.0186	3.8400e-003	412.6009
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	415.1963	415.1963	0.0188	3.8800e-003	416.8232
NaturalGas Mitigated	0.0173	0.1483	0.0655	9.4000e-004		0.0120	0.0120		0.0120	0.0120	0.0000	171.3470	171.3470	3.2800e-003	3.1400e-003	172.3653
NaturalGas Unmitigated	0.0173	0.1483	0.0655	9.4000e-004		0.0120	0.0120		0.0120	0.0120	0.0000	171.3470	171.3470	3.2800e-003	3.1400e-003	172.3653

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	119000	6.4000e-004	5.8300e-003	4.9000e-003	4.0000e-005		4.4000e-004	4.4000e-004		4.4000e-004	4.4000e-004	0.0000	6.3503	6.3503	1.2000e-004	1.2000e-004	6.3880
Single Family Housing	3.09192e+006	0.0167	0.1425	0.0606	9.1000e-004		0.0115	0.0115		0.0115	0.0115	0.0000	164.9967	164.9967	3.1600e-003	3.0200e-003	165.9772
<b>Total</b>		<b>0.0173</b>	<b>0.1483</b>	<b>0.0655</b>	<b>9.5000e-004</b>		<b>0.0120</b>	<b>0.0120</b>		<b>0.0120</b>	<b>0.0120</b>	<b>0.0000</b>	<b>171.3470</b>	<b>171.3470</b>	<b>3.2800e-003</b>	<b>3.1400e-003</b>	<b>172.3653</b>

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**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	tons/yr										MT/yr					
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	119000	6.4000e-004	5.8300e-003	4.9000e-003	4.0000e-005		4.4000e-004	4.4000e-004		4.4000e-004	4.4000e-004	0.0000	6.3503	6.3503	1.2000e-004	1.2000e-004	6.3880
Single Family Housing	3.09192e+006	0.0167	0.1425	0.0606	9.1000e-004		0.0115	0.0115		0.0115	0.0115	0.0000	164.9967	164.9967	3.1600e-003	3.0200e-003	165.9772
<b>Total</b>		<b>0.0173</b>	<b>0.1483</b>	<b>0.0655</b>	<b>9.5000e-004</b>		<b>0.0120</b>	<b>0.0120</b>		<b>0.0120</b>	<b>0.0120</b>	<b>0.0000</b>	<b>171.3470</b>	<b>171.3470</b>	<b>3.2800e-003</b>	<b>3.1400e-003</b>	<b>172.3653</b>

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**5.3 Energy by Land Use - Electricity****Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Parking Lot	38332.8	11.1515	5.0000e-004	1.0000e-004	11.1952
Parking Lot	46957.7	13.6605	6.2000e-004	1.3000e-004	13.7141
Parking Lot	49832.6	14.4969	6.6000e-004	1.4000e-004	14.5537
Regional Shopping Center	547500	159.2740	7.2000e-003	1.4900e-003	159.8981
Single Family Housing	744603	216.6134	9.7900e-003	2.0300e-003	217.4622
<b>Total</b>		<b>415.1963</b>	<b>0.0188</b>	<b>3.8900e-003</b>	<b>416.8232</b>

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**5.3 Energy by Land Use - Electricity****Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Parking Lot	38332.8	11.1515	5.0000e-004	1.0000e-004	11.1952
Parking Lot	46957.7	13.6605	6.2000e-004	1.3000e-004	13.7141
Parking Lot	49832.6	14.4969	6.6000e-004	1.4000e-004	14.5537
Regional Shopping Center	547500	159.2740	7.2000e-003	1.4900e-003	159.8981
Single Family Housing	730145	212.4076	9.6000e-003	1.9900e-003	213.2399
<b>Total</b>		<b>410.9905</b>	<b>0.0186</b>	<b>3.8500e-003</b>	<b>412.6009</b>

**6.0 Area Detail****6.1 Mitigation Measures Area**

San Luis Ranch Project - 2017 Start - San Luis Obispo County APCD Air District, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1.1492	0.0136	1.1774	6.0000e-005		6.4500e-003	6.4500e-003		6.4500e-003	6.4500e-003	0.0000	1.9141	1.9141	1.8800e-003	0.0000	1.9611
Unmitigated	1.1492	0.0136	1.1774	6.0000e-005		6.4500e-003	6.4500e-003		6.4500e-003	6.4500e-003	0.0000	1.9141	1.9141	1.8800e-003	0.0000	1.9611

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.3033					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.8098					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0361	0.0136	1.1774	6.0000e-005		6.4500e-003	6.4500e-003		6.4500e-003	6.4500e-003	0.0000	1.9141	1.9141	1.8800e-003	0.0000	1.9611
<b>Total</b>	<b>1.1492</b>	<b>0.0136</b>	<b>1.1774</b>	<b>6.0000e-005</b>		<b>6.4500e-003</b>	<b>6.4500e-003</b>		<b>6.4500e-003</b>	<b>6.4500e-003</b>	<b>0.0000</b>	<b>1.9141</b>	<b>1.9141</b>	<b>1.8800e-003</b>	<b>0.0000</b>	<b>1.9611</b>

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**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.3033					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.8098					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0361	0.0136	1.1774	6.0000e-005		6.4500e-003	6.4500e-003		6.4500e-003	6.4500e-003	0.0000	1.9141	1.9141	1.8800e-003	0.0000	1.9611
<b>Total</b>	<b>1.1492</b>	<b>0.0136</b>	<b>1.1774</b>	<b>6.0000e-005</b>		<b>6.4500e-003</b>	<b>6.4500e-003</b>		<b>6.4500e-003</b>	<b>6.4500e-003</b>	<b>0.0000</b>	<b>1.9141</b>	<b>1.9141</b>	<b>1.8800e-003</b>	<b>0.0000</b>	<b>1.9611</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	23.5108	0.3042	7.3500e-003	33.3069
Unmitigated	23.5108	0.3042	7.3500e-003	33.3069

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	3.70363 / 2.26996	9.3162	0.1211	2.9300e-003	13.2144
Single Family Housing	5.60325 / 3.53248	14.1946	0.1831	4.4300e-003	20.0925
<b>Total</b>		<b>23.5108</b>	<b>0.3042</b>	<b>7.3600e-003</b>	<b>33.3069</b>



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**7.2 Water by Land Use****Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	3.70363 / 2.26996	9.3162	0.1211	2.9300e-003	13.2144
Single Family Housing	5.60325 / 3.53248	14.1946	0.1831	4.4300e-003	20.0925
<b>Total</b>		<b>23.5108</b>	<b>0.3042</b>	<b>7.3600e-003</b>	<b>33.3069</b>

**8.0 Waste Detail****8.1 Mitigation Measures Waste**

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**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	31.1307	1.8398	0.0000	77.1250
Unmitigated	31.1307	1.8398	0.0000	77.1250

**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	52.5	10.6570	0.6298	0.0000	26.4023
Single Family Housing	100.86	20.4737	1.2100	0.0000	50.7227
<b>Total</b>		<b>31.1307</b>	<b>1.8398</b>	<b>0.0000</b>	<b>77.1250</b>

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**8.2 Waste by Land Use**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	52.5	10.6570	0.6298	0.0000	26.4023
Single Family Housing	100.86	20.4737	1.2100	0.0000	50.7227
<b>Total</b>		<b>31.1307</b>	<b>1.8398</b>	<b>0.0000</b>	<b>77.1250</b>

**9.0 Operational Offroad**

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

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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## **11.0 Vegetation**

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San Luis Ranch Project - 2017 Start - San Luis Obispo County APCD Air District, Summer

**San Luis Ranch Project - 2017 Start**  
**San Luis Obispo County APCD Air District, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	1.23	Acre	1.23	53,361.00	0
Parking Lot	1.00	Acre	1.00	43,560.00	0
Parking Lot	1.30	Acre	1.30	56,628.00	0
Single Family Housing	86.00	Dwelling Unit	8.00	154,800.00	246
Regional Shopping Center	50.00	1000sqft	1.15	50,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	3.2	<b>Precipitation Freq (Days)</b>	44
<b>Climate Zone</b>	4			<b>Operational Year</b>	2019
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	641.35	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

**1.3 User Entered Comments & Non-Default Data**

San Luis Ranch Project - 2017 Start - San Luis Obispo County APCD Air District, Summer

Project Characteristics -

Land Use - Land use values from buildout and phasing in Specific Plan Section 7.7. Includes portions of Phases 1, 2, and 6, and improvements to Froom Ext and Madonna Rd

Construction Phase - No demolition in phases 1, 2, and 6. AC expected to overlap with half of building construction as painting would occur as buildings are finished.

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Grading - Total import proportionally distributed by phase acreage.

Vehicle Trips - Trip generation rate based on Omni-Means 2016 Traffic Impact Study.

Mobile Land Use Mitigation - Trip reductions from project's density, diversity, and access to alternative transportation accounted for in trip generation rates.

Energy Mitigation - Per Specific Plan, appliances will be energy efficient.

Water Mitigation -

Architectural Coating -

Woodstoves -

Construction Off-road Equipment Mitigation -

Area Mitigation -

## San Luis Ranch Project - 2017 Start - San Luis Obispo County APCD Air District, Summer

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	0
tblConstructionPhase	NumDays	20.00	150.00
tblGrading	MaterialImported	0.00	44,640.00
tblLandUse	BuildingSpaceSquareFeet	53,578.80	53,361.00
tblLandUse	LandUseSquareFeet	53,578.80	53,361.00
tblLandUse	LotAcreage	27.92	8.00
tblProjectCharacteristics	OperationalYear	2018	2019
tblVehicleTrips	ST_TR	49.97	10.38
tblVehicleTrips	ST_TR	9.91	5.29
tblVehicleTrips	SU_TR	25.24	5.24
tblVehicleTrips	SU_TR	8.62	4.61
tblVehicleTrips	WD_TR	42.70	8.87
tblVehicleTrips	WD_TR	9.52	5.09

## 2.0 Emissions Summary

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San Luis Ranch Project - 2017 Start - San Luis Obispo County APCD Air District, Summer

**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	6.3178	0.0826	7.1358	3.8000e-004		0.0391	0.0391		0.0391	0.0391	0.0000	12.7872	12.7872	0.0126	0.0000	13.1015
Energy	0.0949	0.8126	0.3591	5.1700e-003		0.0656	0.0656		0.0656	0.0656		1,034.9466	1,034.9466	0.0198	0.0190	1,041.0968
Mobile	2.0776	7.5945	20.8086	0.0495	4.0423	0.0715	4.1139	1.0808	0.0676	1.1484		4,977.7921	4,977.7921	0.2324		4,983.6018
<b>Total</b>	<b>8.4902</b>	<b>8.4898</b>	<b>28.3034</b>	<b>0.0550</b>	<b>4.0423</b>	<b>0.1762</b>	<b>4.2185</b>	<b>1.0808</b>	<b>0.1722</b>	<b>1.2530</b>	<b>0.0000</b>	<b>6,025.5259</b>	<b>6,025.5259</b>	<b>0.2648</b>	<b>0.0190</b>	<b>6,037.8001</b>

**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	6.3178	0.0826	7.1358	3.8000e-004		0.0391	0.0391		0.0391	0.0391	0.0000	12.7872	12.7872	0.0126	0.0000	13.1015
Energy	0.0949	0.8126	0.3591	5.1700e-003		0.0656	0.0656		0.0656	0.0656		1,034.9466	1,034.9466	0.0198	0.0190	1,041.0968
Mobile	2.0776	7.5945	20.8086	0.0495	4.0423	0.0715	4.1139	1.0808	0.0676	1.1484		4,977.7921	4,977.7921	0.2324		4,983.6018
<b>Total</b>	<b>8.4902</b>	<b>8.4898</b>	<b>28.3034</b>	<b>0.0550</b>	<b>4.0423</b>	<b>0.1762</b>	<b>4.2185</b>	<b>1.0808</b>	<b>0.1722</b>	<b>1.2530</b>	<b>0.0000</b>	<b>6,025.5259</b>	<b>6,025.5259</b>	<b>0.2648</b>	<b>0.0190</b>	<b>6,037.8001</b>

## San Luis Ranch Project - 2017 Start - San Luis Obispo County APCD Air District, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

### 3.0 Construction Detail

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#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/2/2017	1/13/2017	5	10	
2	Grading	Grading	1/16/2017	2/24/2017	5	30	
3	Building Construction	Building Construction	2/27/2017	4/20/2018	5	300	
4	Architectural Coating	Architectural Coating	10/2/2017	4/27/2018	5	150	
5	Paving	Paving	4/23/2018	5/18/2018	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 75

Acres of Paving: 3.53

Residential Indoor: 313,470; Residential Outdoor: 104,490; Non-Residential Indoor: 75,000; Non-Residential Outdoor: 25,000; Striped Parking Area: 9,213 (Architectural Coating – sqft)

#### OffRoad Equipment

San Luis Ranch Project - 2017 Start - San Luis Obispo County APCD Air District, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	5,580.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	111.00	43.00	0.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	22.00	0.00	0.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

San Luis Ranch Project - 2017 Start - San Luis Obispo County APCD Air District, Summer

Clean Paved Roads

**3.2 Site Preparation - 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										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.9608	52.2754	23.4554	0.0380		2.8786	2.8786		2.6483	2.6483		3,894.9500	3,894.9500	1.1934		3,924.7852
<b>Total</b>	<b>4.9608</b>	<b>52.2754</b>	<b>23.4554</b>	<b>0.0380</b>	<b>18.0663</b>	<b>2.8786</b>	<b>20.9448</b>	<b>9.9307</b>	<b>2.6483</b>	<b>12.5790</b>		<b>3,894.9500</b>	<b>3,894.9500</b>	<b>1.1934</b>		<b>3,924.7852</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1074	0.0962	0.9501	1.8300e-003	0.1780	1.2800e-003	0.1792	0.0472	1.1900e-003	0.0484		181.6904	181.6904	8.2200e-003		181.8959
<b>Total</b>	<b>0.1074</b>	<b>0.0962</b>	<b>0.9501</b>	<b>1.8300e-003</b>	<b>0.1780</b>	<b>1.2800e-003</b>	<b>0.1792</b>	<b>0.0472</b>	<b>1.1900e-003</b>	<b>0.0484</b>		<b>181.6904</b>	<b>181.6904</b>	<b>8.2200e-003</b>		<b>181.8959</b>

San Luis Ranch Project - 2017 Start - San Luis Obispo County APCD Air District, Summer

**3.2 Site Preparation - 2017**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.9608	52.2754	23.4554	0.0380		2.8786	2.8786		2.6483	2.6483	0.0000	3,894.9500	3,894.9500	1.1934		3,924.7852
<b>Total</b>	<b>4.9608</b>	<b>52.2754</b>	<b>23.4554</b>	<b>0.0380</b>	<b>18.0663</b>	<b>2.8786</b>	<b>20.9448</b>	<b>9.9307</b>	<b>2.6483</b>	<b>12.5790</b>	<b>0.0000</b>	<b>3,894.9500</b>	<b>3,894.9500</b>	<b>1.1934</b>		<b>3,924.7852</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1074	0.0962	0.9501	1.8300e-003	0.1780	1.2800e-003	0.1792	0.0472	1.1900e-003	0.0484		181.6904	181.6904	8.2200e-003		181.8959
<b>Total</b>	<b>0.1074</b>	<b>0.0962</b>	<b>0.9501</b>	<b>1.8300e-003</b>	<b>0.1780</b>	<b>1.2800e-003</b>	<b>0.1792</b>	<b>0.0472</b>	<b>1.1900e-003</b>	<b>0.0484</b>		<b>181.6904</b>	<b>181.6904</b>	<b>8.2200e-003</b>		<b>181.8959</b>

San Luis Ranch Project - 2017 Start - San Luis Obispo County APCD Air District, Summer

**3.3 Grading - 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										lb/day					
Fugitive Dust					8.9472	0.0000	8.9472	3.6380	0.0000	3.6380			0.0000			0.0000
Off-Road	5.7483	67.9396	38.7826	0.0620		3.0727	3.0727		2.8269	2.8269		6,344.8863	6,344.8863	1.9441		6,393.4879
<b>Total</b>	<b>5.7483</b>	<b>67.9396</b>	<b>38.7826</b>	<b>0.0620</b>	<b>8.9472</b>	<b>3.0727</b>	<b>12.0199</b>	<b>3.6380</b>	<b>2.8269</b>	<b>6.4649</b>		<b>6,344.8863</b>	<b>6,344.8863</b>	<b>1.9441</b>		<b>6,393.4879</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	2.6259	73.9973	17.0575	0.1516	3.2418	0.7132	3.9550	0.8878	0.6824	1.5701		16,250.6472	16,250.6472	0.8973		16,273.0791
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	0.1193	0.1069	1.0556	2.0300e-003	0.1977	1.4200e-003	0.1992	0.0524	1.3200e-003	0.0538		201.8782	201.8782	9.1300e-003		202.1066
<b>Total</b>	<b>2.7453</b>	<b>74.1042</b>	<b>18.1131</b>	<b>0.1537</b>	<b>3.4395</b>	<b>0.7147</b>	<b>4.1542</b>	<b>0.9402</b>	<b>0.6837</b>	<b>1.6239</b>		<b>16,452.5254</b>	<b>16,452.5254</b>	<b>0.9064</b>		<b>16,475.1856</b>

San Luis Ranch Project - 2017 Start - San Luis Obispo County APCD Air District, Summer

**3.3 Grading - 2017**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.9472	0.0000	8.9472	3.6380	0.0000	3.6380			0.0000			0.0000
Off-Road	5.7483	67.9396	38.7826	0.0620		3.0727	3.0727		2.8269	2.8269	0.0000	6,344.8863	6,344.8863	1.9441		6,393.4878
<b>Total</b>	<b>5.7483</b>	<b>67.9396</b>	<b>38.7826</b>	<b>0.0620</b>	<b>8.9472</b>	<b>3.0727</b>	<b>12.0199</b>	<b>3.6380</b>	<b>2.8269</b>	<b>6.4649</b>	<b>0.0000</b>	<b>6,344.8863</b>	<b>6,344.8863</b>	<b>1.9441</b>		<b>6,393.4878</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	2.6259	73.9973	17.0575	0.1516	3.2418	0.7132	3.9550	0.8878	0.6824	1.5701		16,250.6472	16,250.6472	0.8973		16,273.0791
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	0.1193	0.1069	1.0556	2.0300e-003	0.1977	1.4200e-003	0.1992	0.0524	1.3200e-003	0.0538		201.8782	201.8782	9.1300e-003		202.1066
<b>Total</b>	<b>2.7453</b>	<b>74.1042</b>	<b>18.1131</b>	<b>0.1537</b>	<b>3.4395</b>	<b>0.7147</b>	<b>4.1542</b>	<b>0.9402</b>	<b>0.6837</b>	<b>1.6239</b>		<b>16,452.5254</b>	<b>16,452.5254</b>	<b>0.9064</b>		<b>16,475.1856</b>

San Luis Ranch Project - 2017 Start - San Luis Obispo County APCD Air District, Summer

**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										lb/day					
Off-Road	3.1149	26.5546	18.1825	0.0269		1.7879	1.7879		1.6791	1.6791		2,650.9797	2,650.9797	0.6531		2,667.3078
<b>Total</b>	<b>3.1149</b>	<b>26.5546</b>	<b>18.1825</b>	<b>0.0269</b>		<b>1.7879</b>	<b>1.7879</b>		<b>1.6791</b>	<b>1.6791</b>		<b>2,650.9797</b>	<b>2,650.9797</b>	<b>0.6531</b>		<b>2,667.3078</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2599	5.3897	1.8358	8.7300e-003	0.1995	0.0586	0.2581	0.0575	0.0560	0.1135		924.9468	924.9468	0.0618		926.4905
Worker	0.6622	0.5934	5.8587	0.0113	1.0974	7.9000e-003	1.1053	0.2910	7.3200e-003	0.2984		1,120.4241	1,120.4241	0.0507		1,121.6913
<b>Total</b>	<b>0.9222</b>	<b>5.9831</b>	<b>7.6945</b>	<b>0.0200</b>	<b>1.2969</b>	<b>0.0665</b>	<b>1.3633</b>	<b>0.3485</b>	<b>0.0634</b>	<b>0.4118</b>		<b>2,045.3710</b>	<b>2,045.3710</b>	<b>0.1124</b>		<b>2,048.1819</b>



San Luis Ranch Project - 2017 Start - San Luis Obispo County APCD Air District, Summer

**3.4 Building Construction - 2017**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.1149	26.5546	18.1825	0.0269		1.7879	1.7879		1.6791	1.6791	0.0000	2,650.9797	2,650.9797	0.6531		2,667.3078
<b>Total</b>	<b>3.1149</b>	<b>26.5546</b>	<b>18.1825</b>	<b>0.0269</b>		<b>1.7879</b>	<b>1.7879</b>		<b>1.6791</b>	<b>1.6791</b>	<b>0.0000</b>	<b>2,650.9797</b>	<b>2,650.9797</b>	<b>0.6531</b>		<b>2,667.3078</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2599	5.3897	1.8358	8.7300e-003	0.1995	0.0586	0.2581	0.0575	0.0560	0.1135		924.9468	924.9468	0.0618		926.4905
Worker	0.6622	0.5934	5.8587	0.0113	1.0974	7.9000e-003	1.1053	0.2910	7.3200e-003	0.2984		1,120.4241	1,120.4241	0.0507		1,121.6913
<b>Total</b>	<b>0.9222</b>	<b>5.9831</b>	<b>7.6945</b>	<b>0.0200</b>	<b>1.2969</b>	<b>0.0665</b>	<b>1.3633</b>	<b>0.3485</b>	<b>0.0634</b>	<b>0.4118</b>		<b>2,045.3710</b>	<b>2,045.3710</b>	<b>0.1124</b>		<b>2,048.1819</b>

San Luis Ranch Project - 2017 Start - San Luis Obispo County APCD Air District, Summer

**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										lb/day					
Off-Road	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099		2,620.9351	2,620.9351	0.6421		2,636.9883
<b>Total</b>	<b>2.6795</b>	<b>23.3900</b>	<b>17.5804</b>	<b>0.0269</b>		<b>1.4999</b>	<b>1.4999</b>		<b>1.4099</b>	<b>1.4099</b>		<b>2,620.9351</b>	<b>2,620.9351</b>	<b>0.6421</b>		<b>2,636.9883</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2262	5.1028	1.6406	8.7300e-003	0.1995	0.0474	0.2469	0.0575	0.0453	0.1028		926.6986	926.6986	0.0588		928.1688
Worker	0.5808	0.5139	5.0685	0.0110	1.0974	7.5000e-003	1.1049	0.2910	6.9400e-003	0.2980		1,090.1903	1,090.1903	0.0441		1,091.2938
<b>Total</b>	<b>0.8069</b>	<b>5.6166</b>	<b>6.7090</b>	<b>0.0197</b>	<b>1.2969</b>	<b>0.0549</b>	<b>1.3517</b>	<b>0.3485</b>	<b>0.0522</b>	<b>0.4007</b>		<b>2,016.8889</b>	<b>2,016.8889</b>	<b>0.1030</b>		<b>2,019.4626</b>

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**3.4 Building Construction - 2018**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099	0.0000	2,620.935 1	2,620.935 1	0.6421		2,636.988 3
<b>Total</b>	<b>2.6795</b>	<b>23.3900</b>	<b>17.5804</b>	<b>0.0269</b>		<b>1.4999</b>	<b>1.4999</b>		<b>1.4099</b>	<b>1.4099</b>	<b>0.0000</b>	<b>2,620.935 1</b>	<b>2,620.935 1</b>	<b>0.6421</b>		<b>2,636.988 3</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2262	5.1028	1.6406	8.7300e-003	0.1995	0.0474	0.2469	0.0575	0.0453	0.1028		926.6986	926.6986	0.0588		928.1688
Worker	0.5808	0.5139	5.0685	0.0110	1.0974	7.5000e-003	1.1049	0.2910	6.9400e-003	0.2980		1,090.190 3	1,090.190 3	0.0441		1,091.293 8
<b>Total</b>	<b>0.8069</b>	<b>5.6166</b>	<b>6.7090</b>	<b>0.0197</b>	<b>1.2969</b>	<b>0.0549</b>	<b>1.3517</b>	<b>0.3485</b>	<b>0.0522</b>	<b>0.4007</b>		<b>2,016.888 9</b>	<b>2,016.888 9</b>	<b>0.1030</b>		<b>2,019.462 6</b>

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**3.5 Architectural Coating - 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										lb/day					
Archit. Coating	40.4394					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3323	2.1850	1.8681	2.9700e-003		0.1733	0.1733		0.1733	0.1733		281.4481	281.4481	0.0297		282.1909
<b>Total</b>	<b>40.7717</b>	<b>2.1850</b>	<b>1.8681</b>	<b>2.9700e-003</b>		<b>0.1733</b>	<b>0.1733</b>		<b>0.1733</b>	<b>0.1733</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0297</b>		<b>282.1909</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1313	0.1176	1.1612	2.2400e-003	0.2175	1.5700e-003	0.2191	0.0577	1.4500e-003	0.0591		222.0661	222.0661	0.0101		222.3172
<b>Total</b>	<b>0.1313</b>	<b>0.1176</b>	<b>1.1612</b>	<b>2.2400e-003</b>	<b>0.2175</b>	<b>1.5700e-003</b>	<b>0.2191</b>	<b>0.0577</b>	<b>1.4500e-003</b>	<b>0.0591</b>		<b>222.0661</b>	<b>222.0661</b>	<b>0.0101</b>		<b>222.3172</b>

San Luis Ranch Project - 2017 Start - San Luis Obispo County APCD Air District, Summer

**3.5 Architectural Coating - 2017**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	40.4394					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3323	2.1850	1.8681	2.9700e-003		0.1733	0.1733		0.1733	0.1733	0.0000	281.4481	281.4481	0.0297		282.1909
<b>Total</b>	<b>40.7717</b>	<b>2.1850</b>	<b>1.8681</b>	<b>2.9700e-003</b>		<b>0.1733</b>	<b>0.1733</b>		<b>0.1733</b>	<b>0.1733</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0297</b>		<b>282.1909</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1313	0.1176	1.1612	2.2400e-003	0.2175	1.5700e-003	0.2191	0.0577	1.4500e-003	0.0591		222.0661	222.0661	0.0101		222.3172
<b>Total</b>	<b>0.1313</b>	<b>0.1176</b>	<b>1.1612</b>	<b>2.2400e-003</b>	<b>0.2175</b>	<b>1.5700e-003</b>	<b>0.2191</b>	<b>0.0577</b>	<b>1.4500e-003</b>	<b>0.0591</b>		<b>222.0661</b>	<b>222.0661</b>	<b>0.0101</b>		<b>222.3172</b>

San Luis Ranch Project - 2017 Start - San Luis Obispo County APCD Air District, Summer

**3.5 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	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	40.4394					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2986	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506		281.4485	281.4485	0.0267		282.1171
<b>Total</b>	<b>40.7381</b>	<b>2.0058</b>	<b>1.8542</b>	<b>2.9700e-003</b>		<b>0.1506</b>	<b>0.1506</b>		<b>0.1506</b>	<b>0.1506</b>		<b>281.4485</b>	<b>281.4485</b>	<b>0.0267</b>		<b>282.1171</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1151	0.1018	1.0046	2.1700e-003	0.2175	1.4900e-003	0.2190	0.0577	1.3700e-003	0.0591		216.0738	216.0738	8.7500e-003		216.2925
<b>Total</b>	<b>0.1151</b>	<b>0.1018</b>	<b>1.0046</b>	<b>2.1700e-003</b>	<b>0.2175</b>	<b>1.4900e-003</b>	<b>0.2190</b>	<b>0.0577</b>	<b>1.3700e-003</b>	<b>0.0591</b>		<b>216.0738</b>	<b>216.0738</b>	<b>8.7500e-003</b>		<b>216.2925</b>

San Luis Ranch Project - 2017 Start - San Luis Obispo County APCD Air District, Summer

**3.5 Architectural Coating - 2018**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	40.4394					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2986	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506	0.0000	281.4485	281.4485	0.0267		282.1171
<b>Total</b>	<b>40.7381</b>	<b>2.0058</b>	<b>1.8542</b>	<b>2.9700e-003</b>		<b>0.1506</b>	<b>0.1506</b>		<b>0.1506</b>	<b>0.1506</b>	<b>0.0000</b>	<b>281.4485</b>	<b>281.4485</b>	<b>0.0267</b>		<b>282.1171</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1151	0.1018	1.0046	2.1700e-003	0.2175	1.4900e-003	0.2190	0.0577	1.3700e-003	0.0591		216.0738	216.0738	8.7500e-003		216.2925
<b>Total</b>	<b>0.1151</b>	<b>0.1018</b>	<b>1.0046</b>	<b>2.1700e-003</b>	<b>0.2175</b>	<b>1.4900e-003</b>	<b>0.2190</b>	<b>0.0577</b>	<b>1.3700e-003</b>	<b>0.0591</b>		<b>216.0738</b>	<b>216.0738</b>	<b>8.7500e-003</b>		<b>216.2925</b>

San Luis Ranch Project - 2017 Start - San Luis Obispo County APCD Air District, Summer

**3.6 Paving - 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										lb/day					
Off-Road	1.6437	17.5209	14.7964	0.0228		0.9561	0.9561		0.8797	0.8797		2,294.0887	2,294.0887	0.7142		2,311.9432
Paving	0.4624					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>2.1061</b>	<b>17.5209</b>	<b>14.7964</b>	<b>0.0228</b>		<b>0.9561</b>	<b>0.9561</b>		<b>0.8797</b>	<b>0.8797</b>		<b>2,294.0887</b>	<b>2,294.0887</b>	<b>0.7142</b>		<b>2,311.9432</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0785	0.0694	0.6849	1.4800e-003	0.1483	1.0100e-003	0.1493	0.0393	9.4000e-004	0.0403		147.3230	147.3230	5.9600e-003		147.4721
<b>Total</b>	<b>0.0785</b>	<b>0.0694</b>	<b>0.6849</b>	<b>1.4800e-003</b>	<b>0.1483</b>	<b>1.0100e-003</b>	<b>0.1493</b>	<b>0.0393</b>	<b>9.4000e-004</b>	<b>0.0403</b>		<b>147.3230</b>	<b>147.3230</b>	<b>5.9600e-003</b>		<b>147.4721</b>



San Luis Ranch Project - 2017 Start - San Luis Obispo County APCD Air District, Summer

**3.6 Paving - 2018**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.6437	17.5209	14.7964	0.0228		0.9561	0.9561		0.8797	0.8797	0.0000	2,294.0887	2,294.0887	0.7142		2,311.9432
Paving	0.4624					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>2.1061</b>	<b>17.5209</b>	<b>14.7964</b>	<b>0.0228</b>		<b>0.9561</b>	<b>0.9561</b>		<b>0.8797</b>	<b>0.8797</b>	<b>0.0000</b>	<b>2,294.0887</b>	<b>2,294.0887</b>	<b>0.7142</b>		<b>2,311.9432</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0785	0.0694	0.6849	1.4800e-003	0.1483	1.0100e-003	0.1493	0.0393	9.4000e-004	0.0403		147.3230	147.3230	5.9600e-003		147.4721
<b>Total</b>	<b>0.0785</b>	<b>0.0694</b>	<b>0.6849</b>	<b>1.4800e-003</b>	<b>0.1483</b>	<b>1.0100e-003</b>	<b>0.1493</b>	<b>0.0393</b>	<b>9.4000e-004</b>	<b>0.0403</b>		<b>147.3230</b>	<b>147.3230</b>	<b>5.9600e-003</b>		<b>147.4721</b>

**4.0 Operational Detail - Mobile**

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San Luis Ranch Project - 2017 Start - San Luis Obispo County APCD Air District, Summer

**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	2.0776	7.5945	20.8086	0.0495	4.0423	0.0715	4.1139	1.0808	0.0676	1.1484		4,977.7921	4,977.7921	0.2324		4,983.6018
Unmitigated	2.0776	7.5945	20.8086	0.0495	4.0423	0.0715	4.1139	1.0808	0.0676	1.1484		4,977.7921	4,977.7921	0.2324		4,983.6018

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Regional Shopping Center	443.50	519.00	262.00	618,505	618,505
Single Family Housing	437.74	454.94	396.46	1,103,798	1,103,798
Total	881.24	973.94	658.46	1,722,303	1,722,303

**4.3 Trip Type Information**

San Luis Ranch Project - 2017 Start - San Luis Obispo County APCD Air District, Summer

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
Parking Lot	13.00	5.00	5.00	0.00	0.00	0.00	0	0	0
Parking Lot	13.00	5.00	5.00	0.00	0.00	0.00	0	0	0
Parking Lot	13.00	5.00	5.00	0.00	0.00	0.00	0	0	0
Regional Shopping Center	13.00	5.00	5.00	16.30	64.70	19.00	54	35	11
Single Family Housing	13.00	5.00	5.00	35.80	21.00	43.20	86	11	3

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Parking Lot	0.549382	0.034064	0.198767	0.132360	0.033447	0.007872	0.013134	0.018943	0.002404	0.001320	0.005630	0.000825	0.001852
Parking Lot	0.549382	0.034064	0.198767	0.132360	0.033447	0.007872	0.013134	0.018943	0.002404	0.001320	0.005630	0.000825	0.001852
Parking Lot	0.549382	0.034064	0.198767	0.132360	0.033447	0.007872	0.013134	0.018943	0.002404	0.001320	0.005630	0.000825	0.001852
Single Family Housing	0.549382	0.034064	0.198767	0.132360	0.033447	0.007872	0.013134	0.018943	0.002404	0.001320	0.005630	0.000825	0.001852
Regional Shopping Center	0.549382	0.034064	0.198767	0.132360	0.033447	0.007872	0.013134	0.018943	0.002404	0.001320	0.005630	0.000825	0.001852

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

Install Energy Efficient Appliances

San Luis Ranch Project - 2017 Start - San Luis Obispo County APCD Air District, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0949	0.8126	0.3591	5.1700e-003		0.0656	0.0656		0.0656	0.0656		1,034.9466	1,034.9466	0.0198	0.0190	1,041.0968
NaturalGas Unmitigated	0.0949	0.8126	0.3591	5.1700e-003		0.0656	0.0656		0.0656	0.0656		1,034.9466	1,034.9466	0.0198	0.0190	1,041.0968

**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					
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	326.027	3.5200e-003	0.0320	0.0269	1.9000e-004		2.4300e-003	2.4300e-003		2.4300e-003	2.4300e-003		38.3562	38.3562	7.4000e-004	7.0000e-004	38.5841
Single Family Housing	8471.02	0.0914	0.7807	0.3322	4.9800e-003		0.0631	0.0631		0.0631	0.0631		996.5905	996.5905	0.0191	0.0183	1,002.5127
<b>Total</b>		<b>0.0949</b>	<b>0.8126</b>	<b>0.3591</b>	<b>5.1700e-003</b>		<b>0.0656</b>	<b>0.0656</b>		<b>0.0656</b>	<b>0.0656</b>		<b>1,034.9466</b>	<b>1,034.9466</b>	<b>0.0198</b>	<b>0.0190</b>	<b>1,041.0968</b>

San Luis Ranch Project - 2017 Start - San Luis Obispo County APCD Air District, Summer

**5.2 Energy by Land Use - Natural Gas**

**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	kBTU/yr	lb/day										lb/day					
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	0.326027	3.5200e-003	0.0320	0.0269	1.9000e-004		2.4300e-003	2.4300e-003		2.4300e-003	2.4300e-003		38.3562	38.3562	7.4000e-004	7.0000e-004	38.5841
Single Family Housing	8.47102	0.0914	0.7807	0.3322	4.9800e-003		0.0631	0.0631		0.0631	0.0631		996.5905	996.5905	0.0191	0.0183	1,002.5127
<b>Total</b>		<b>0.0949</b>	<b>0.8126</b>	<b>0.3591</b>	<b>5.1700e-003</b>		<b>0.0656</b>	<b>0.0656</b>		<b>0.0656</b>	<b>0.0656</b>		<b>1,034.9466</b>	<b>1,034.9466</b>	<b>0.0198</b>	<b>0.0190</b>	<b>1,041.0968</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

San Luis Ranch Project - 2017 Start - San Luis Obispo County APCD Air District, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	6.3178	0.0826	7.1358	3.8000e-004		0.0391	0.0391		0.0391	0.0391	0.0000	12.7872	12.7872	0.0126	0.0000	13.1015
Unmitigated	6.3178	0.0826	7.1358	3.8000e-004		0.0391	0.0391		0.0391	0.0391	0.0000	12.7872	12.7872	0.0126	0.0000	13.1015

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	1.6619					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	4.4371					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.2188	0.0826	7.1358	3.8000e-004		0.0391	0.0391		0.0391	0.0391		12.7872	12.7872	0.0126		13.1015
<b>Total</b>	<b>6.3178</b>	<b>0.0826</b>	<b>7.1358</b>	<b>3.8000e-004</b>		<b>0.0391</b>	<b>0.0391</b>		<b>0.0391</b>	<b>0.0391</b>	<b>0.0000</b>	<b>12.7872</b>	<b>12.7872</b>	<b>0.0126</b>	<b>0.0000</b>	<b>13.1015</b>

San Luis Ranch Project - 2017 Start - San Luis Obispo County APCD Air District, Summer

**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	1.6619					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	4.4371					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.2188	0.0826	7.1358	3.8000e-004		0.0391	0.0391		0.0391	0.0391		12.7872	12.7872	0.0126		13.1015
<b>Total</b>	<b>6.3178</b>	<b>0.0826</b>	<b>7.1358</b>	<b>3.8000e-004</b>		<b>0.0391</b>	<b>0.0391</b>		<b>0.0391</b>	<b>0.0391</b>	<b>0.0000</b>	<b>12.7872</b>	<b>12.7872</b>	<b>0.0126</b>	<b>0.0000</b>	<b>13.1015</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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

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San Luis Ranch Project - 2017 Start - San Luis Obispo County APCD Air District, Summer

**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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**11.0 Vegetation**

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San Luis Ranch Project - 2017 Start - San Luis Obispo County APCD Air District, Winter

**San Luis Ranch Project - 2017 Start**  
**San Luis Obispo County APCD Air District, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	1.23	Acre	1.23	53,361.00	0
Parking Lot	1.00	Acre	1.00	43,560.00	0
Parking Lot	1.30	Acre	1.30	56,628.00	0
Single Family Housing	86.00	Dwelling Unit	8.00	154,800.00	246
Regional Shopping Center	50.00	1000sqft	1.15	50,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	3.2	<b>Precipitation Freq (Days)</b>	44
<b>Climate Zone</b>	4			<b>Operational Year</b>	2019
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	641.35	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

**1.3 User Entered Comments & Non-Default Data**

San Luis Ranch Project - 2017 Start - San Luis Obispo County APCD Air District, Winter

Project Characteristics -

Land Use - Land use values from buildout and phasing in Specific Plan Section 7.7. Includes portions of Phases 1, 2, and 6, and improvements to Froom Ext and Madonna Rd

Construction Phase - No demolition in phases 1, 2, and 6. AC expected to overlap with half of building construction as painting would occur as buildings are finished.

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Grading - Total import proportionally distributed by phase acreage.

Vehicle Trips - Trip generation rate based on Omni-Means 2016 Traffic Impact Study.

Mobile Land Use Mitigation - Trip reductions from project's density, diversity, and access to alternative transportation accounted for in trip generation rates.

Energy Mitigation - Per Specific Plan, appliances will be energy efficient.

Water Mitigation -

Architectural Coating -

Woodstoves -

Construction Off-road Equipment Mitigation -

Area Mitigation -

## San Luis Ranch Project - 2017 Start - San Luis Obispo County APCD Air District, Winter

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	0
tblConstructionPhase	NumDays	20.00	150.00
tblGrading	MaterialImported	0.00	44,640.00
tblLandUse	BuildingSpaceSquareFeet	53,578.80	53,361.00
tblLandUse	LandUseSquareFeet	53,578.80	53,361.00
tblLandUse	LotAcreage	27.92	8.00
tblProjectCharacteristics	OperationalYear	2018	2019
tblVehicleTrips	ST_TR	49.97	10.38
tblVehicleTrips	ST_TR	9.91	5.29
tblVehicleTrips	SU_TR	25.24	5.24
tblVehicleTrips	SU_TR	8.62	4.61
tblVehicleTrips	WD_TR	42.70	8.87
tblVehicleTrips	WD_TR	9.52	5.09

## 2.0 Emissions Summary

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San Luis Ranch Project - 2017 Start - San Luis Obispo County APCD Air District, Winter

**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	6.3178	0.0826	7.1358	3.8000e-004		0.0391	0.0391		0.0391	0.0391	0.0000	12.7872	12.7872	0.0126	0.0000	13.1015
Energy	0.0949	0.8126	0.3591	5.1700e-003		0.0656	0.0656		0.0656	0.0656		1,034.9466	1,034.9466	0.0198	0.0190	1,041.0968
Mobile	2.0317	7.8849	21.7107	0.0475	4.0423	0.0724	4.1148	1.0808	0.0684	1.1492		4,782.0197	4,782.0197	0.2373		4,787.9522
<b>Total</b>	<b>8.4443</b>	<b>8.7802</b>	<b>29.2055</b>	<b>0.0531</b>	<b>4.0423</b>	<b>0.1771</b>	<b>4.2194</b>	<b>1.0808</b>	<b>0.1731</b>	<b>1.2539</b>	<b>0.0000</b>	<b>5,829.7535</b>	<b>5,829.7535</b>	<b>0.2697</b>	<b>0.0190</b>	<b>5,842.1505</b>

**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	6.3178	0.0826	7.1358	3.8000e-004		0.0391	0.0391		0.0391	0.0391	0.0000	12.7872	12.7872	0.0126	0.0000	13.1015
Energy	0.0949	0.8126	0.3591	5.1700e-003		0.0656	0.0656		0.0656	0.0656		1,034.9466	1,034.9466	0.0198	0.0190	1,041.0968
Mobile	2.0317	7.8849	21.7107	0.0475	4.0423	0.0724	4.1148	1.0808	0.0684	1.1492		4,782.0197	4,782.0197	0.2373		4,787.9522
<b>Total</b>	<b>8.4443</b>	<b>8.7802</b>	<b>29.2055</b>	<b>0.0531</b>	<b>4.0423</b>	<b>0.1771</b>	<b>4.2194</b>	<b>1.0808</b>	<b>0.1731</b>	<b>1.2539</b>	<b>0.0000</b>	<b>5,829.7535</b>	<b>5,829.7535</b>	<b>0.2697</b>	<b>0.0190</b>	<b>5,842.1505</b>

## San Luis Ranch Project - 2017 Start - San Luis Obispo County APCD Air District, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

### 3.0 Construction Detail

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#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/2/2017	1/13/2017	5	10	
2	Grading	Grading	1/16/2017	2/24/2017	5	30	
3	Building Construction	Building Construction	2/27/2017	4/20/2018	5	300	
4	Architectural Coating	Architectural Coating	10/2/2017	4/27/2018	5	150	
5	Paving	Paving	4/23/2018	5/18/2018	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 75

Acres of Paving: 3.53

Residential Indoor: 313,470; Residential Outdoor: 104,490; Non-Residential Indoor: 75,000; Non-Residential Outdoor: 25,000; Striped Parking Area: 9,213 (Architectural Coating – sqft)

#### OffRoad Equipment

San Luis Ranch Project - 2017 Start - San Luis Obispo County APCD Air District, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	5,580.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	111.00	43.00	0.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	22.00	0.00	0.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

San Luis Ranch Project - 2017 Start - San Luis Obispo County APCD Air District, Winter

Clean Paved Roads

**3.2 Site Preparation - 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										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.9608	52.2754	23.4554	0.0380		2.8786	2.8786		2.6483	2.6483		3,894.950 0	3,894.950 0	1.1934		3,924.785 2
<b>Total</b>	<b>4.9608</b>	<b>52.2754</b>	<b>23.4554</b>	<b>0.0380</b>	<b>18.0663</b>	<b>2.8786</b>	<b>20.9448</b>	<b>9.9307</b>	<b>2.6483</b>	<b>12.5790</b>		<b>3,894.950 0</b>	<b>3,894.950 0</b>	<b>1.1934</b>		<b>3,924.785 2</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1220	0.1091	0.9425	1.7400e-003	0.1780	1.2800e-003	0.1792	0.0472	1.1900e-003	0.0484		173.2291	173.2291	8.0700e-003		173.4309
<b>Total</b>	<b>0.1220</b>	<b>0.1091</b>	<b>0.9425</b>	<b>1.7400e-003</b>	<b>0.1780</b>	<b>1.2800e-003</b>	<b>0.1792</b>	<b>0.0472</b>	<b>1.1900e-003</b>	<b>0.0484</b>		<b>173.2291</b>	<b>173.2291</b>	<b>8.0700e-003</b>		<b>173.4309</b>



San Luis Ranch Project - 2017 Start - San Luis Obispo County APCD Air District, Winter

**3.2 Site Preparation - 2017**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.9608	52.2754	23.4554	0.0380		2.8786	2.8786		2.6483	2.6483	0.0000	3,894.9500	3,894.9500	1.1934		3,924.7852
<b>Total</b>	<b>4.9608</b>	<b>52.2754</b>	<b>23.4554</b>	<b>0.0380</b>	<b>18.0663</b>	<b>2.8786</b>	<b>20.9448</b>	<b>9.9307</b>	<b>2.6483</b>	<b>12.5790</b>	<b>0.0000</b>	<b>3,894.9500</b>	<b>3,894.9500</b>	<b>1.1934</b>		<b>3,924.7852</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1220	0.1091	0.9425	1.7400e-003	0.1780	1.2800e-003	0.1792	0.0472	1.1900e-003	0.0484		173.2291	173.2291	8.0700e-003		173.4309
<b>Total</b>	<b>0.1220</b>	<b>0.1091</b>	<b>0.9425</b>	<b>1.7400e-003</b>	<b>0.1780</b>	<b>1.2800e-003</b>	<b>0.1792</b>	<b>0.0472</b>	<b>1.1900e-003</b>	<b>0.0484</b>		<b>173.2291</b>	<b>173.2291</b>	<b>8.0700e-003</b>		<b>173.4309</b>

San Luis Ranch Project - 2017 Start - San Luis Obispo County APCD Air District, Winter

**3.3 Grading - 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										lb/day					
Fugitive Dust					8.9472	0.0000	8.9472	3.6380	0.0000	3.6380			0.0000			0.0000
Off-Road	5.7483	67.9396	38.7826	0.0620		3.0727	3.0727		2.8269	2.8269		6,344.8863	6,344.8863	1.9441		6,393.4879
<b>Total</b>	<b>5.7483</b>	<b>67.9396</b>	<b>38.7826</b>	<b>0.0620</b>	<b>8.9472</b>	<b>3.0727</b>	<b>12.0199</b>	<b>3.6380</b>	<b>2.8269</b>	<b>6.4649</b>		<b>6,344.8863</b>	<b>6,344.8863</b>	<b>1.9441</b>		<b>6,393.4879</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	2.6880	74.7048	18.1277	0.1497	3.2418	0.7237	3.9655	0.8878	0.6924	1.5802		16,041.2137	16,041.2137	0.9288		16,064.4338
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	0.1356	0.1213	1.0473	1.9400e-003	0.1977	1.4200e-003	0.1992	0.0524	1.3200e-003	0.0538		192.4768	192.4768	8.9700e-003		192.7010
<b>Total</b>	<b>2.8236</b>	<b>74.8261</b>	<b>19.1750</b>	<b>0.1516</b>	<b>3.4395</b>	<b>0.7251</b>	<b>4.1647</b>	<b>0.9402</b>	<b>0.6937</b>	<b>1.6339</b>		<b>16,233.6905</b>	<b>16,233.6905</b>	<b>0.9378</b>		<b>16,257.1348</b>

San Luis Ranch Project - 2017 Start - San Luis Obispo County APCD Air District, Winter

**3.3 Grading - 2017**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.9472	0.0000	8.9472	3.6380	0.0000	3.6380			0.0000			0.0000
Off-Road	5.7483	67.9396	38.7826	0.0620		3.0727	3.0727		2.8269	2.8269	0.0000	6,344.8863	6,344.8863	1.9441		6,393.4878
<b>Total</b>	<b>5.7483</b>	<b>67.9396</b>	<b>38.7826</b>	<b>0.0620</b>	<b>8.9472</b>	<b>3.0727</b>	<b>12.0199</b>	<b>3.6380</b>	<b>2.8269</b>	<b>6.4649</b>	<b>0.0000</b>	<b>6,344.8863</b>	<b>6,344.8863</b>	<b>1.9441</b>		<b>6,393.4878</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	2.6880	74.7048	18.1277	0.1497	3.2418	0.7237	3.9655	0.8878	0.6924	1.5802		16,041.2137	16,041.2137	0.9288		16,064.4338
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	0.1356	0.1213	1.0473	1.9400e-003	0.1977	1.4200e-003	0.1992	0.0524	1.3200e-003	0.0538		192.4768	192.4768	8.9700e-003		192.7010
<b>Total</b>	<b>2.8236</b>	<b>74.8261</b>	<b>19.1750</b>	<b>0.1516</b>	<b>3.4395</b>	<b>0.7251</b>	<b>4.1647</b>	<b>0.9402</b>	<b>0.6937</b>	<b>1.6339</b>		<b>16,233.6905</b>	<b>16,233.6905</b>	<b>0.9378</b>		<b>16,257.1348</b>

San Luis Ranch Project - 2017 Start - San Luis Obispo County APCD Air District, Winter

**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										lb/day					
Off-Road	3.1149	26.5546	18.1825	0.0269		1.7879	1.7879		1.6791	1.6791		2,650.9797	2,650.9797	0.6531		2,667.3078
<b>Total</b>	<b>3.1149</b>	<b>26.5546</b>	<b>18.1825</b>	<b>0.0269</b>		<b>1.7879</b>	<b>1.7879</b>		<b>1.6791</b>	<b>1.6791</b>		<b>2,650.9797</b>	<b>2,650.9797</b>	<b>0.6531</b>		<b>2,667.3078</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2732	5.3830	2.0493	8.5000e-003	0.1995	0.0599	0.2594	0.0575	0.0574	0.1148		899.7995	899.7995	0.0660		901.4487
Worker	0.7525	0.6730	5.8123	0.0108	1.0974	7.9000e-003	1.1053	0.2910	7.3200e-003	0.2984		1,068.2461	1,068.2461	0.0498		1,069.4903
<b>Total</b>	<b>1.0257</b>	<b>6.0560</b>	<b>7.8616</b>	<b>0.0193</b>	<b>1.2969</b>	<b>0.0678</b>	<b>1.3647</b>	<b>0.3485</b>	<b>0.0647</b>	<b>0.4132</b>		<b>1,968.0456</b>	<b>1,968.0456</b>	<b>0.1157</b>		<b>1,970.9390</b>

San Luis Ranch Project - 2017 Start - San Luis Obispo County APCD Air District, Winter

**3.4 Building Construction - 2017**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.1149	26.5546	18.1825	0.0269		1.7879	1.7879		1.6791	1.6791	0.0000	2,650.9797	2,650.9797	0.6531		2,667.3078
<b>Total</b>	<b>3.1149</b>	<b>26.5546</b>	<b>18.1825</b>	<b>0.0269</b>		<b>1.7879</b>	<b>1.7879</b>		<b>1.6791</b>	<b>1.6791</b>	<b>0.0000</b>	<b>2,650.9797</b>	<b>2,650.9797</b>	<b>0.6531</b>		<b>2,667.3078</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2732	5.3830	2.0493	8.5000e-003	0.1995	0.0599	0.2594	0.0575	0.0574	0.1148		899.7995	899.7995	0.0660		901.4487
Worker	0.7525	0.6730	5.8123	0.0108	1.0974	7.9000e-003	1.1053	0.2910	7.3200e-003	0.2984		1,068.2461	1,068.2461	0.0498		1,069.4903
<b>Total</b>	<b>1.0257</b>	<b>6.0560</b>	<b>7.8616</b>	<b>0.0193</b>	<b>1.2969</b>	<b>0.0678</b>	<b>1.3647</b>	<b>0.3485</b>	<b>0.0647</b>	<b>0.4132</b>		<b>1,968.0456</b>	<b>1,968.0456</b>	<b>0.1157</b>		<b>1,970.9390</b>

San Luis Ranch Project - 2017 Start - San Luis Obispo County APCD Air District, Winter

**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										lb/day					
Off-Road	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099		2,620.9351	2,620.9351	0.6421		2,636.9883
<b>Total</b>	<b>2.6795</b>	<b>23.3900</b>	<b>17.5804</b>	<b>0.0269</b>		<b>1.4999</b>	<b>1.4999</b>		<b>1.4099</b>	<b>1.4099</b>		<b>2,620.9351</b>	<b>2,620.9351</b>	<b>0.6421</b>		<b>2,636.9883</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2379	5.0900	1.8373	8.4900e-003	0.1995	0.0486	0.2481	0.0575	0.0465	0.1039		900.3348	900.3348	0.0629		901.9066
Worker	0.6598	0.5831	4.9891	0.0105	1.0974	7.5000e-003	1.1049	0.2910	6.9400e-003	0.2980		1,039.2835	1,039.2835	0.0431		1,040.3619
<b>Total</b>	<b>0.8976</b>	<b>5.6731</b>	<b>6.8264</b>	<b>0.0190</b>	<b>1.2969</b>	<b>0.0561</b>	<b>1.3529</b>	<b>0.3485</b>	<b>0.0534</b>	<b>0.4019</b>		<b>1,939.6183</b>	<b>1,939.6183</b>	<b>0.1060</b>		<b>1,942.2685</b>

San Luis Ranch Project - 2017 Start - San Luis Obispo County APCD Air District, Winter

**3.4 Building Construction - 2018**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099	0.0000	2,620.935 1	2,620.935 1	0.6421		2,636.988 3
<b>Total</b>	<b>2.6795</b>	<b>23.3900</b>	<b>17.5804</b>	<b>0.0269</b>		<b>1.4999</b>	<b>1.4999</b>		<b>1.4099</b>	<b>1.4099</b>	<b>0.0000</b>	<b>2,620.935 1</b>	<b>2,620.935 1</b>	<b>0.6421</b>		<b>2,636.988 3</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2379	5.0900	1.8373	8.4900e-003	0.1995	0.0486	0.2481	0.0575	0.0465	0.1039		900.3348	900.3348	0.0629		901.9066
Worker	0.6598	0.5831	4.9891	0.0105	1.0974	7.5000e-003	1.1049	0.2910	6.9400e-003	0.2980		1,039.283 5	1,039.283 5	0.0431		1,040.361 9
<b>Total</b>	<b>0.8976</b>	<b>5.6731</b>	<b>6.8264</b>	<b>0.0190</b>	<b>1.2969</b>	<b>0.0561</b>	<b>1.3529</b>	<b>0.3485</b>	<b>0.0534</b>	<b>0.4019</b>		<b>1,939.618 3</b>	<b>1,939.618 3</b>	<b>0.1060</b>		<b>1,942.268 5</b>

San Luis Ranch Project - 2017 Start - San Luis Obispo County APCD Air District, Winter

**3.5 Architectural Coating - 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										lb/day					
Archit. Coating	40.4394					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3323	2.1850	1.8681	2.9700e-003		0.1733	0.1733		0.1733	0.1733		281.4481	281.4481	0.0297		282.1909
<b>Total</b>	<b>40.7717</b>	<b>2.1850</b>	<b>1.8681</b>	<b>2.9700e-003</b>		<b>0.1733</b>	<b>0.1733</b>		<b>0.1733</b>	<b>0.1733</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0297</b>		<b>282.1909</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1492	0.1334	1.1520	2.1300e-003	0.2175	1.5700e-003	0.2191	0.0577	1.4500e-003	0.0591		211.7245	211.7245	9.8600e-003		211.9710
<b>Total</b>	<b>0.1492</b>	<b>0.1334</b>	<b>1.1520</b>	<b>2.1300e-003</b>	<b>0.2175</b>	<b>1.5700e-003</b>	<b>0.2191</b>	<b>0.0577</b>	<b>1.4500e-003</b>	<b>0.0591</b>		<b>211.7245</b>	<b>211.7245</b>	<b>9.8600e-003</b>		<b>211.9710</b>



San Luis Ranch Project - 2017 Start - San Luis Obispo County APCD Air District, Winter

**3.5 Architectural Coating - 2017**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	40.4394					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3323	2.1850	1.8681	2.9700e-003		0.1733	0.1733		0.1733	0.1733	0.0000	281.4481	281.4481	0.0297		282.1909
<b>Total</b>	<b>40.7717</b>	<b>2.1850</b>	<b>1.8681</b>	<b>2.9700e-003</b>		<b>0.1733</b>	<b>0.1733</b>		<b>0.1733</b>	<b>0.1733</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0297</b>		<b>282.1909</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1492	0.1334	1.1520	2.1300e-003	0.2175	1.5700e-003	0.2191	0.0577	1.4500e-003	0.0591		211.7245	211.7245	9.8600e-003		211.9710
<b>Total</b>	<b>0.1492</b>	<b>0.1334</b>	<b>1.1520</b>	<b>2.1300e-003</b>	<b>0.2175</b>	<b>1.5700e-003</b>	<b>0.2191</b>	<b>0.0577</b>	<b>1.4500e-003</b>	<b>0.0591</b>		<b>211.7245</b>	<b>211.7245</b>	<b>9.8600e-003</b>		<b>211.9710</b>

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**3.5 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	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	40.4394					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2986	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506		281.4485	281.4485	0.0267		282.1171
<b>Total</b>	<b>40.7381</b>	<b>2.0058</b>	<b>1.8542</b>	<b>2.9700e-003</b>		<b>0.1506</b>	<b>0.1506</b>		<b>0.1506</b>	<b>0.1506</b>		<b>281.4485</b>	<b>281.4485</b>	<b>0.0267</b>		<b>282.1171</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1308	0.1156	0.9888	2.0700e-003	0.2175	1.4900e-003	0.2190	0.0577	1.3700e-003	0.0591		205.9841	205.9841	8.5500e-003		206.1979
<b>Total</b>	<b>0.1308</b>	<b>0.1156</b>	<b>0.9888</b>	<b>2.0700e-003</b>	<b>0.2175</b>	<b>1.4900e-003</b>	<b>0.2190</b>	<b>0.0577</b>	<b>1.3700e-003</b>	<b>0.0591</b>		<b>205.9841</b>	<b>205.9841</b>	<b>8.5500e-003</b>		<b>206.1979</b>

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**3.5 Architectural Coating - 2018**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	40.4394					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2986	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506	0.0000	281.4485	281.4485	0.0267		282.1171
<b>Total</b>	<b>40.7381</b>	<b>2.0058</b>	<b>1.8542</b>	<b>2.9700e-003</b>		<b>0.1506</b>	<b>0.1506</b>		<b>0.1506</b>	<b>0.1506</b>	<b>0.0000</b>	<b>281.4485</b>	<b>281.4485</b>	<b>0.0267</b>		<b>282.1171</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1308	0.1156	0.9888	2.0700e-003	0.2175	1.4900e-003	0.2190	0.0577	1.3700e-003	0.0591		205.9841	205.9841	8.5500e-003		206.1979
<b>Total</b>	<b>0.1308</b>	<b>0.1156</b>	<b>0.9888</b>	<b>2.0700e-003</b>	<b>0.2175</b>	<b>1.4900e-003</b>	<b>0.2190</b>	<b>0.0577</b>	<b>1.3700e-003</b>	<b>0.0591</b>		<b>205.9841</b>	<b>205.9841</b>	<b>8.5500e-003</b>		<b>206.1979</b>

San Luis Ranch Project - 2017 Start - San Luis Obispo County APCD Air District, Winter

**3.6 Paving - 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										lb/day					
Off-Road	1.6437	17.5209	14.7964	0.0228		0.9561	0.9561		0.8797	0.8797		2,294.0887	2,294.0887	0.7142		2,311.9432
Paving	0.4624					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>2.1061</b>	<b>17.5209</b>	<b>14.7964</b>	<b>0.0228</b>		<b>0.9561</b>	<b>0.9561</b>		<b>0.8797</b>	<b>0.8797</b>		<b>2,294.0887</b>	<b>2,294.0887</b>	<b>0.7142</b>		<b>2,311.9432</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0892	0.0788	0.6742	1.4100e-003	0.1483	1.0100e-003	0.1493	0.0393	9.4000e-004	0.0403		140.4437	140.4437	5.8300e-003		140.5895
<b>Total</b>	<b>0.0892</b>	<b>0.0788</b>	<b>0.6742</b>	<b>1.4100e-003</b>	<b>0.1483</b>	<b>1.0100e-003</b>	<b>0.1493</b>	<b>0.0393</b>	<b>9.4000e-004</b>	<b>0.0403</b>		<b>140.4437</b>	<b>140.4437</b>	<b>5.8300e-003</b>		<b>140.5895</b>

San Luis Ranch Project - 2017 Start - San Luis Obispo County APCD Air District, Winter

**3.6 Paving - 2018**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.6437	17.5209	14.7964	0.0228		0.9561	0.9561		0.8797	0.8797	0.0000	2,294.0887	2,294.0887	0.7142		2,311.9432
Paving	0.4624					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>2.1061</b>	<b>17.5209</b>	<b>14.7964</b>	<b>0.0228</b>		<b>0.9561</b>	<b>0.9561</b>		<b>0.8797</b>	<b>0.8797</b>	<b>0.0000</b>	<b>2,294.0887</b>	<b>2,294.0887</b>	<b>0.7142</b>		<b>2,311.9432</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0892	0.0788	0.6742	1.4100e-003	0.1483	1.0100e-003	0.1493	0.0393	9.4000e-004	0.0403		140.4437	140.4437	5.8300e-003		140.5895
<b>Total</b>	<b>0.0892</b>	<b>0.0788</b>	<b>0.6742</b>	<b>1.4100e-003</b>	<b>0.1483</b>	<b>1.0100e-003</b>	<b>0.1493</b>	<b>0.0393</b>	<b>9.4000e-004</b>	<b>0.0403</b>		<b>140.4437</b>	<b>140.4437</b>	<b>5.8300e-003</b>		<b>140.5895</b>

**4.0 Operational Detail - Mobile**

San Luis Ranch Project - 2017 Start - San Luis Obispo County APCD Air District, Winter

**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	2.0317	7.8849	21.7107	0.0475	4.0423	0.0724	4.1148	1.0808	0.0684	1.1492		4,782.0197	4,782.0197	0.2373		4,787.9522
Unmitigated	2.0317	7.8849	21.7107	0.0475	4.0423	0.0724	4.1148	1.0808	0.0684	1.1492		4,782.0197	4,782.0197	0.2373		4,787.9522

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Regional Shopping Center	443.50	519.00	262.00	618,505	618,505
Single Family Housing	437.74	454.94	396.46	1,103,798	1,103,798
Total	881.24	973.94	658.46	1,722,303	1,722,303

**4.3 Trip Type Information**

San Luis Ranch Project - 2017 Start - San Luis Obispo County APCD Air District, Winter

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
Parking Lot	13.00	5.00	5.00	0.00	0.00	0.00	0	0	0
Parking Lot	13.00	5.00	5.00	0.00	0.00	0.00	0	0	0
Parking Lot	13.00	5.00	5.00	0.00	0.00	0.00	0	0	0
Regional Shopping Center	13.00	5.00	5.00	16.30	64.70	19.00	54	35	11
Single Family Housing	13.00	5.00	5.00	35.80	21.00	43.20	86	11	3

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Parking Lot	0.549382	0.034064	0.198767	0.132360	0.033447	0.007872	0.013134	0.018943	0.002404	0.001320	0.005630	0.000825	0.001852
Parking Lot	0.549382	0.034064	0.198767	0.132360	0.033447	0.007872	0.013134	0.018943	0.002404	0.001320	0.005630	0.000825	0.001852
Parking Lot	0.549382	0.034064	0.198767	0.132360	0.033447	0.007872	0.013134	0.018943	0.002404	0.001320	0.005630	0.000825	0.001852
Single Family Housing	0.549382	0.034064	0.198767	0.132360	0.033447	0.007872	0.013134	0.018943	0.002404	0.001320	0.005630	0.000825	0.001852
Regional Shopping Center	0.549382	0.034064	0.198767	0.132360	0.033447	0.007872	0.013134	0.018943	0.002404	0.001320	0.005630	0.000825	0.001852

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

Install Energy Efficient Appliances

San Luis Ranch Project - 2017 Start - San Luis Obispo County APCD Air District, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0949	0.8126	0.3591	5.1700e-003		0.0656	0.0656		0.0656	0.0656		1,034.9466	1,034.9466	0.0198	0.0190	1,041.0968
NaturalGas Unmitigated	0.0949	0.8126	0.3591	5.1700e-003		0.0656	0.0656		0.0656	0.0656		1,034.9466	1,034.9466	0.0198	0.0190	1,041.0968

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					
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	326.027	3.5200e-003	0.0320	0.0269	1.9000e-004		2.4300e-003	2.4300e-003		2.4300e-003	2.4300e-003		38.3562	38.3562	7.4000e-004	7.0000e-004	38.5841
Single Family Housing	8471.02	0.0914	0.7807	0.3322	4.9800e-003		0.0631	0.0631		0.0631	0.0631		996.5905	996.5905	0.0191	0.0183	1,002.5127
<b>Total</b>		<b>0.0949</b>	<b>0.8126</b>	<b>0.3591</b>	<b>5.1700e-003</b>		<b>0.0656</b>	<b>0.0656</b>		<b>0.0656</b>	<b>0.0656</b>		<b>1,034.9466</b>	<b>1,034.9466</b>	<b>0.0198</b>	<b>0.0190</b>	<b>1,041.0968</b>



San Luis Ranch Project - 2017 Start - San Luis Obispo County APCD Air District, Winter

**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					
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	0.326027	3.5200e-003	0.0320	0.0269	1.9000e-004		2.4300e-003	2.4300e-003		2.4300e-003	2.4300e-003		38.3562	38.3562	7.4000e-004	7.0000e-004	38.5841
Single Family Housing	8.47102	0.0914	0.7807	0.3322	4.9800e-003		0.0631	0.0631		0.0631	0.0631		996.5905	996.5905	0.0191	0.0183	1,002.5127
<b>Total</b>		<b>0.0949</b>	<b>0.8126</b>	<b>0.3591</b>	<b>5.1700e-003</b>		<b>0.0656</b>	<b>0.0656</b>		<b>0.0656</b>	<b>0.0656</b>		<b>1,034.9466</b>	<b>1,034.9466</b>	<b>0.0198</b>	<b>0.0190</b>	<b>1,041.0968</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

San Luis Ranch Project - 2017 Start - San Luis Obispo County APCD Air District, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	6.3178	0.0826	7.1358	3.8000e-004		0.0391	0.0391		0.0391	0.0391	0.0000	12.7872	12.7872	0.0126	0.0000	13.1015
Unmitigated	6.3178	0.0826	7.1358	3.8000e-004		0.0391	0.0391		0.0391	0.0391	0.0000	12.7872	12.7872	0.0126	0.0000	13.1015

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	1.6619					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	4.4371					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.2188	0.0826	7.1358	3.8000e-004		0.0391	0.0391		0.0391	0.0391		12.7872	12.7872	0.0126		13.1015
<b>Total</b>	<b>6.3178</b>	<b>0.0826</b>	<b>7.1358</b>	<b>3.8000e-004</b>		<b>0.0391</b>	<b>0.0391</b>		<b>0.0391</b>	<b>0.0391</b>	<b>0.0000</b>	<b>12.7872</b>	<b>12.7872</b>	<b>0.0126</b>	<b>0.0000</b>	<b>13.1015</b>

San Luis Ranch Project - 2017 Start - San Luis Obispo County APCD Air District, Winter

**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	1.6619					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	4.4371					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.2188	0.0826	7.1358	3.8000e-004		0.0391	0.0391		0.0391	0.0391		12.7872	12.7872	0.0126		13.1015
<b>Total</b>	<b>6.3178</b>	<b>0.0826</b>	<b>7.1358</b>	<b>3.8000e-004</b>		<b>0.0391</b>	<b>0.0391</b>		<b>0.0391</b>	<b>0.0391</b>	<b>0.0000</b>	<b>12.7872</b>	<b>12.7872</b>	<b>0.0126</b>	<b>0.0000</b>	<b>13.1015</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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

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San Luis Ranch Project - 2017 Start - San Luis Obispo County APCD Air District, Winter

**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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**11.0 Vegetation**

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San Luis Ranch Project - 2017 Start - San Luis Obispo County APCD Air District, Summary Report

**San Luis Ranch Project - 2017 Start**  
**San Luis Obispo County APCD, Summary Report**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	1.23	Acre	1.23	53,361.00	0
Parking Lot	1.00	Acre	1.00	43,560.00	0
Parking Lot	1.30	Acre	1.30	56,628.00	0
Single Family Housing	86.00	Dwelling Unit	8.00	154,800.00	246
Regional Shopping Center	50.00	1000sqft	1.15	50,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	3.2	<b>Precipitation Freq (Days)</b>	44
<b>Climate Zone</b>	4			<b>Operational Year</b>	2019
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	641.35	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

**1.3 User Entered Comments**

Only CalEEMod defaults were used.

San Luis Ranch Project - 2017 Start - San Luis Obispo County APCD Air District, Summary Report

Project Characteristics -

Land Use - Land use values from buildout and phasing in Specific Plan Section 7.7. Includes portions of Phases 1, 2, and 6, and improvements to Froom Ext and Madonna Rd

Construction Phase - No demolition in phases 1, 2, and 6. AC expected to overlap with half of building construction as painting would occur as buildings are finished.

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Grading - Total import proportionally distributed by phase acreage.

Vehicle Trips - Trip generation rate based on Omni-Means 2016 Traffic Impact Study.

Mobile Land Use Mitigation - Trip reductions from project's density, diversity, and access to alternative transportation accounted for in trip generation rates.

Energy Mitigation - Per Specific Plan, appliances will be energy efficient.

Water Mitigation -

Architectural Coating -

Woodstoves -

Construction Off-road Equipment Mitigation -

Area Mitigation -

## **2.0 Peak Daily Emissions**

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### **Peak Daily Construction Emissions**

#### **Peak Daily Construction Emissions**







San Luis Ranch Project - 2018 Start - San Luis Obispo County APCD Air District, Annual

**San Luis Ranch Project - 2018 Start**  
**San Luis Obispo County APCD Air District, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	25.00	1000sqft	0.63	25,000.00	0
Parking Lot	2.10	Acre	2.10	91,476.00	0
Parking Lot	1.23	Acre	1.23	53,361.00	0
Hotel	200.00	Room	3.50	290,400.00	0
Single Family Housing	196.00	Dwelling Unit	15.00	352,800.00	561
Regional Shopping Center	50.00	1000sqft	1.15	50,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	3.2	<b>Precipitation Freq (Days)</b>	44
<b>Climate Zone</b>	4			<b>Operational Year</b>	2020
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MW hr)</b>	641.35	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

**1.3 User Entered Comments & Non-Default Data**

San Luis Ranch Project - 2018 Start - San Luis Obispo County APCD Air District, Annual

Project Characteristics -

Land Use - Land use values from buildout and phasing in Specific Plan Section 7.7. Includes portions of Phases 1, 2, 4, 5, and 6.

Construction Phase - No demolition in phases 1, 2, 4, 5 and 6. AC expected to overlap with half of building construction as painting would occur as buildings are finished.

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Grading - Total import proportionally distributed by phase acreage.

Vehicle Trips - Trip generation rate based on Omni-Means 2016 Traffic Impact Study.

Mobile Land Use Mitigation - Trip reductions from project's density, diversity, and access to alternative transportation accounted for in trip generation rates.

Energy Mitigation - Per Specific Plan, appliances will be energy efficient.

Water Mitigation -

Demolition -

Construction Off-road Equipment Mitigation -

Area Mitigation -

## San Luis Ranch Project - 2018 Start - San Luis Obispo County APCD Air District, Annual

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	0
tblConstructionPhase	NumDays	20.00	185.00
tblGrading	MaterialImported	0.00	91,760.00
tblLandUse	BuildingSpaceSquareFeet	53,578.80	53,361.00
tblLandUse	LandUseSquareFeet	53,578.80	53,361.00
tblLandUse	LotAcreage	0.57	0.63
tblLandUse	LotAcreage	6.67	3.50
tblLandUse	LotAcreage	63.64	15.00
tblProjectCharacteristics	OperationalYear	2018	2020
tblVehicleTrips	ST_TR	2.46	2.68
tblVehicleTrips	ST_TR	8.19	4.86
tblVehicleTrips	ST_TR	49.97	10.38
tblVehicleTrips	ST_TR	9.91	5.29
tblVehicleTrips	SU_TR	1.05	1.14
tblVehicleTrips	SU_TR	5.95	3.53
tblVehicleTrips	SU_TR	25.24	5.24
tblVehicleTrips	SU_TR	8.62	4.61
tblVehicleTrips	WD_TR	11.03	12.00
tblVehicleTrips	WD_TR	8.17	4.85
tblVehicleTrips	WD_TR	42.70	8.87
tblVehicleTrips	WD_TR	9.52	5.09

## 2.0 Emissions Summary

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San Luis Ranch Project - 2018 Start - San Luis Obispo County APCD Air District, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-1-2018	3-31-2018	3.6164	3.6164
2	4-1-2018	6-30-2018	1.3589	1.3589
3	7-1-2018	9-30-2018	2.4600	2.4600
4	10-1-2018	12-31-2018	4.9570	4.9570
5	1-1-2019	3-31-2019	4.7227	4.7227
6	4-1-2019	6-30-2019	2.2506	2.2506
		Highest	4.9570	4.9570

**2.2 Overall Operational**  
**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	3.8746	0.0310	2.6817	1.4000e-004		0.0147	0.0147		0.0147	0.0147	0.0000	4.3674	4.3674	4.2700e-003	0.0000	4.4743
Energy	0.1106	0.9843	0.6922	6.0300e-003		0.0764	0.0764		0.0764	0.0764	0.0000	2,573.8997	2,573.8997	0.0879	0.0339	2,586.1997
Mobile	0.8673	3.4948	9.3349	0.0228	1.9378	0.0289	1.9667	0.5191	0.0273	0.5463	0.0000	2,086.4176	2,086.4176	0.0942	0.0000	2,088.7734
Waste						0.0000	0.0000		0.0000	0.0000	84.2940	0.0000	84.2940	4.9816	0.0000	208.8349
Water						0.0000	0.0000		0.0000	0.0000	8.2456	54.7676	63.0131	0.8494	0.0205	90.3594
<b>Total</b>	<b>4.8525</b>	<b>4.5102</b>	<b>12.7088</b>	<b>0.0290</b>	<b>1.9378</b>	<b>0.1200</b>	<b>2.0578</b>	<b>0.5191</b>	<b>0.1184</b>	<b>0.6374</b>	<b>92.5396</b>	<b>4,719.4522</b>	<b>4,811.9918</b>	<b>6.0174</b>	<b>0.0544</b>	<b>4,978.6416</b>

San Luis Ranch Project - 2018 Start - San Luis Obispo County APCD Air District, Annual

**2.2 Overall Operational**

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	3.8746	0.0310	2.6817	1.4000e-004		0.0147	0.0147		0.0147	0.0147	0.0000	4.3674	4.3674	4.2700e-003	0.0000	4.4743
Energy	0.1106	0.9843	0.6922	6.0300e-003		0.0764	0.0764		0.0764	0.0764	0.0000	2,564.314 2	2,564.314 2	0.0875	0.0338	2,576.576 7
Mobile	0.8673	3.4948	9.3349	0.0228	1.9378	0.0289	1.9667	0.5191	0.0273	0.5463	0.0000	2,086.417 6	2,086.417 6	0.0942	0.0000	2,088.773 4
Waste						0.0000	0.0000		0.0000	0.0000	84.2940	0.0000	84.2940	4.9816	0.0000	208.8349
Water						0.0000	0.0000		0.0000	0.0000	8.2456	54.7676	63.0131	0.8494	0.0205	90.3594
<b>Total</b>	<b>4.8525</b>	<b>4.5102</b>	<b>12.7088</b>	<b>0.0290</b>	<b>1.9378</b>	<b>0.1200</b>	<b>2.0578</b>	<b>0.5191</b>	<b>0.1184</b>	<b>0.6374</b>	<b>92.5396</b>	<b>4,709.866 7</b>	<b>4,802.406 4</b>	<b>6.0170</b>	<b>0.0543</b>	<b>4,969.018 6</b>

	ROG	NOx	CO	SO2	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	0.20	0.20	0.01	0.17	0.19

**3.0 Construction Detail**

**Construction Phase**

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Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/1/2018	1/12/2018	5	10	
2	Grading	Grading	1/13/2018	2/23/2018	5	35	
3	Building Construction	Building Construction	2/24/2018	4/19/2019	5	370	
4	Architectural Coating	Architectural Coating	9/3/2018	5/17/2019	5	185	
5	Paving	Paving	4/20/2019	5/17/2019	5	20	

**Acres of Grading (Site Preparation Phase): 0**

**Acres of Grading (Grading Phase): 87.5**

**Acres of Paving: 3.33**

**Residential Indoor: 714,420; Residential Outdoor: 238,140; Non-Residential Indoor: 548,100; Non-Residential Outdoor: 182,700; Striped Parking Area: 8,690 (Architectural Coating – sqft)**

**OffRoad Equipment**

San Luis Ranch Project - 2018 Start - San Luis Obispo County APCD Air District, Annual

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	11,470.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	277.00	105.00	0.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	55.00	0.00	0.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**



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Clean Paved Roads

**3.2 Site Preparation - 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	tons/yr										MT/yr					
Fugitive Dust					0.0903	0.0000	0.0903	0.0497	0.0000	0.0497	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0228	0.2410	0.1124	1.9000e-004		0.0129	0.0129		0.0119	0.0119	0.0000	17.3800	17.3800	5.4100e-003	0.0000	17.5152
<b>Total</b>	<b>0.0228</b>	<b>0.2410</b>	<b>0.1124</b>	<b>1.9000e-004</b>	<b>0.0903</b>	<b>0.0129</b>	<b>0.1032</b>	<b>0.0497</b>	<b>0.0119</b>	<b>0.0615</b>	<b>0.0000</b>	<b>17.3800</b>	<b>17.3800</b>	<b>5.4100e-003</b>	<b>0.0000</b>	<b>17.5152</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.8000e-004	4.6000e-004	4.0100e-003	1.0000e-005	8.7000e-004	1.0000e-005	8.7000e-004	2.3000e-004	1.0000e-005	2.4000e-004	0.0000	0.7707	0.7707	3.0000e-005	0.0000	0.7715
<b>Total</b>	<b>4.8000e-004</b>	<b>4.6000e-004</b>	<b>4.0100e-003</b>	<b>1.0000e-005</b>	<b>8.7000e-004</b>	<b>1.0000e-005</b>	<b>8.7000e-004</b>	<b>2.3000e-004</b>	<b>1.0000e-005</b>	<b>2.4000e-004</b>	<b>0.0000</b>	<b>0.7707</b>	<b>0.7707</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.7715</b>

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**3.2 Site Preparation - 2018**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0903	0.0000	0.0903	0.0497	0.0000	0.0497	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0228	0.2410	0.1124	1.9000e-004		0.0129	0.0129		0.0119	0.0119	0.0000	17.3799	17.3799	5.4100e-003	0.0000	17.5152
<b>Total</b>	<b>0.0228</b>	<b>0.2410</b>	<b>0.1124</b>	<b>1.9000e-004</b>	<b>0.0903</b>	<b>0.0129</b>	<b>0.1032</b>	<b>0.0497</b>	<b>0.0119</b>	<b>0.0615</b>	<b>0.0000</b>	<b>17.3799</b>	<b>17.3799</b>	<b>5.4100e-003</b>	<b>0.0000</b>	<b>17.5152</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.8000e-004	4.6000e-004	4.0100e-003	1.0000e-005	8.7000e-004	1.0000e-005	8.7000e-004	2.3000e-004	1.0000e-005	2.4000e-004	0.0000	0.7707	0.7707	3.0000e-005	0.0000	0.7715
<b>Total</b>	<b>4.8000e-004</b>	<b>4.6000e-004</b>	<b>4.0100e-003</b>	<b>1.0000e-005</b>	<b>8.7000e-004</b>	<b>1.0000e-005</b>	<b>8.7000e-004</b>	<b>2.3000e-004</b>	<b>1.0000e-005</b>	<b>2.4000e-004</b>	<b>0.0000</b>	<b>0.7707</b>	<b>0.7707</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.7715</b>

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**3.3 Grading - 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	tons/yr										MT/yr					
Fugitive Dust					0.1373	0.0000	0.1373	0.0550	0.0000	0.0550	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0764	0.8928	0.5263	9.3000e-004		0.0395	0.0395		0.0364	0.0364	0.0000	84.9728	84.9728	0.0265	0.0000	85.6341
<b>Total</b>	<b>0.0764</b>	<b>0.8928</b>	<b>0.5263</b>	<b>9.3000e-004</b>	<b>0.1373</b>	<b>0.0395</b>	<b>0.1769</b>	<b>0.0550</b>	<b>0.0364</b>	<b>0.0914</b>	<b>0.0000</b>	<b>84.9728</b>	<b>84.9728</b>	<b>0.0265</b>	<b>0.0000</b>	<b>85.6341</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0582	1.8377	0.4158	3.9500e-003	0.0943	0.0134	0.1076	0.0256	0.0128	0.0384	0.0000	384.8026	384.8026	0.0216	0.0000	385.3436
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	1.6100e-003	1.5500e-003	0.0134	3.0000e-005	2.8900e-003	2.0000e-005	2.9100e-003	7.7000e-004	2.0000e-005	7.9000e-004	0.0000	2.5689	2.5689	1.1000e-004	0.0000	2.5715
<b>Total</b>	<b>0.0598</b>	<b>1.8393</b>	<b>0.4292</b>	<b>3.9800e-003</b>	<b>0.0972</b>	<b>0.0134</b>	<b>0.1105</b>	<b>0.0263</b>	<b>0.0128</b>	<b>0.0391</b>	<b>0.0000</b>	<b>387.3714</b>	<b>387.3714</b>	<b>0.0218</b>	<b>0.0000</b>	<b>387.9151</b>

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**3.3 Grading - 2018**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1373	0.0000	0.1373	0.0550	0.0000	0.0550	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0764	0.8928	0.5263	9.3000e-004		0.0395	0.0395		0.0364	0.0364	0.0000	84.9727	84.9727	0.0265	0.0000	85.6340
<b>Total</b>	<b>0.0764</b>	<b>0.8928</b>	<b>0.5263</b>	<b>9.3000e-004</b>	<b>0.1373</b>	<b>0.0395</b>	<b>0.1769</b>	<b>0.0550</b>	<b>0.0364</b>	<b>0.0914</b>	<b>0.0000</b>	<b>84.9727</b>	<b>84.9727</b>	<b>0.0265</b>	<b>0.0000</b>	<b>85.6340</b>

**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	0.0582	1.8377	0.4158	3.9500e-003	0.0943	0.0134	0.1076	0.0256	0.0128	0.0384	0.0000	384.8026	384.8026	0.0216	0.0000	385.3436
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	1.6100e-003	1.5500e-003	0.0134	3.0000e-005	2.8900e-003	2.0000e-005	2.9100e-003	7.7000e-004	2.0000e-005	7.9000e-004	0.0000	2.5689	2.5689	1.1000e-004	0.0000	2.5715
<b>Total</b>	<b>0.0598</b>	<b>1.8393</b>	<b>0.4292</b>	<b>3.9800e-003</b>	<b>0.0972</b>	<b>0.0134</b>	<b>0.1105</b>	<b>0.0263</b>	<b>0.0128</b>	<b>0.0391</b>	<b>0.0000</b>	<b>387.3714</b>	<b>387.3714</b>	<b>0.0218</b>	<b>0.0000</b>	<b>387.9151</b>

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**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	tons/yr										MT/yr					
Off-Road	0.2961	2.5846	1.9426	2.9700e-003		0.1657	0.1657		0.1558	0.1558	0.0000	262.7328	262.7328	0.0644	0.0000	264.3420
<b>Total</b>	<b>0.2961</b>	<b>2.5846</b>	<b>1.9426</b>	<b>2.9700e-003</b>		<b>0.1657</b>	<b>0.1657</b>		<b>0.1558</b>	<b>0.1558</b>	<b>0.0000</b>	<b>262.7328</b>	<b>262.7328</b>	<b>0.0644</b>	<b>0.0000</b>	<b>264.3420</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0624	1.3921	0.4705	2.3300e-003	0.0527	0.0129	0.0656	0.0152	0.0124	0.0276	0.0000	224.1246	224.1246	0.0149	0.0000	224.4965
Worker	0.1638	0.1578	1.3651	2.9100e-003	0.2947	2.0700e-003	0.2967	0.0783	1.9100e-003	0.0802	0.0000	262.0999	262.0999	0.0108	0.0000	262.3697
<b>Total</b>	<b>0.2262</b>	<b>1.5498</b>	<b>1.8355</b>	<b>5.2400e-003</b>	<b>0.3474</b>	<b>0.0150</b>	<b>0.3623</b>	<b>0.0935</b>	<b>0.0143</b>	<b>0.1078</b>	<b>0.0000</b>	<b>486.2245</b>	<b>486.2245</b>	<b>0.0257</b>	<b>0.0000</b>	<b>486.8662</b>

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**3.4 Building Construction - 2018**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2961	2.5846	1.9426	2.9700e-003		0.1657	0.1657		0.1558	0.1558	0.0000	262.7325	262.7325	0.0644	0.0000	264.3417
<b>Total</b>	<b>0.2961</b>	<b>2.5846</b>	<b>1.9426</b>	<b>2.9700e-003</b>		<b>0.1657</b>	<b>0.1657</b>		<b>0.1558</b>	<b>0.1558</b>	<b>0.0000</b>	<b>262.7325</b>	<b>262.7325</b>	<b>0.0644</b>	<b>0.0000</b>	<b>264.3417</b>

**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	0.0624	1.3921	0.4705	2.3300e-003	0.0527	0.0129	0.0656	0.0152	0.0124	0.0276	0.0000	224.1246	224.1246	0.0149	0.0000	224.4965
Worker	0.1638	0.1578	1.3651	2.9100e-003	0.2947	2.0700e-003	0.2967	0.0783	1.9100e-003	0.0802	0.0000	262.0999	262.0999	0.0108	0.0000	262.3697
<b>Total</b>	<b>0.2262</b>	<b>1.5498</b>	<b>1.8355</b>	<b>5.2400e-003</b>	<b>0.3474</b>	<b>0.0150</b>	<b>0.3623</b>	<b>0.0935</b>	<b>0.0143</b>	<b>0.1078</b>	<b>0.0000</b>	<b>486.2245</b>	<b>486.2245</b>	<b>0.0257</b>	<b>0.0000</b>	<b>486.8662</b>

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**3.4 Building Construction - 2019**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0933	0.8326	0.6780	1.0600e-003		0.0510	0.0510		0.0479	0.0479	0.0000	92.8662	92.8662	0.0226	0.0000	93.4317
<b>Total</b>	<b>0.0933</b>	<b>0.8326</b>	<b>0.6780</b>	<b>1.0600e-003</b>		<b>0.0510</b>	<b>0.0510</b>		<b>0.0479</b>	<b>0.0479</b>	<b>0.0000</b>	<b>92.8662</b>	<b>92.8662</b>	<b>0.0226</b>	<b>0.0000</b>	<b>93.4317</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0194	0.4731	0.1484	8.3000e-004	0.0188	3.7900e-003	0.0226	5.4400e-003	3.6200e-003	9.0600e-003	0.0000	79.9025	79.9025	5.1300e-003	0.0000	80.0308
Worker	0.0526	0.0494	0.4276	1.0100e-003	0.1053	7.2000e-004	0.1061	0.0280	6.6000e-004	0.0287	0.0000	90.9377	90.9377	3.3900e-003	0.0000	91.0224
<b>Total</b>	<b>0.0720</b>	<b>0.5224</b>	<b>0.5761</b>	<b>1.8400e-003</b>	<b>0.1242</b>	<b>4.5100e-003</b>	<b>0.1287</b>	<b>0.0334</b>	<b>4.2800e-003</b>	<b>0.0377</b>	<b>0.0000</b>	<b>170.8402</b>	<b>170.8402</b>	<b>8.5200e-003</b>	<b>0.0000</b>	<b>171.0532</b>

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**3.4 Building Construction - 2019**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0933	0.8326	0.6780	1.0600e-003		0.0510	0.0510		0.0479	0.0479	0.0000	92.8661	92.8661	0.0226	0.0000	93.4316
<b>Total</b>	<b>0.0933</b>	<b>0.8326</b>	<b>0.6780</b>	<b>1.0600e-003</b>		<b>0.0510</b>	<b>0.0510</b>		<b>0.0479</b>	<b>0.0479</b>	<b>0.0000</b>	<b>92.8661</b>	<b>92.8661</b>	<b>0.0226</b>	<b>0.0000</b>	<b>93.4316</b>

**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	0.0194	0.4731	0.1484	8.3000e-004	0.0188	3.7900e-003	0.0226	5.4400e-003	3.6200e-003	9.0600e-003	0.0000	79.9025	79.9025	5.1300e-003	0.0000	80.0308
Worker	0.0526	0.0494	0.4276	1.0100e-003	0.1053	7.2000e-004	0.1061	0.0280	6.6000e-004	0.0287	0.0000	90.9377	90.9377	3.3900e-003	0.0000	91.0224
<b>Total</b>	<b>0.0720</b>	<b>0.5224</b>	<b>0.5761</b>	<b>1.8400e-003</b>	<b>0.1242</b>	<b>4.5100e-003</b>	<b>0.1287</b>	<b>0.0334</b>	<b>4.2800e-003</b>	<b>0.0377</b>	<b>0.0000</b>	<b>170.8402</b>	<b>170.8402</b>	<b>8.5200e-003</b>	<b>0.0000</b>	<b>171.0532</b>



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**3.5 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	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	4.5479					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0128	0.0863	0.0797	1.3000e-004		6.4700e-003	6.4700e-003		6.4700e-003	6.4700e-003	0.0000	10.9790	10.9790	1.0400e-003	0.0000	11.0051
<b>Total</b>	<b>4.5607</b>	<b>0.0863</b>	<b>0.0797</b>	<b>1.3000e-004</b>		<b>6.4700e-003</b>	<b>6.4700e-003</b>		<b>6.4700e-003</b>	<b>6.4700e-003</b>	<b>0.0000</b>	<b>10.9790</b>	<b>10.9790</b>	<b>1.0400e-003</b>	<b>0.0000</b>	<b>11.0051</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0127	0.0122	0.1055	2.2000e-004	0.0228	1.6000e-004	0.0229	6.0500e-003	1.5000e-004	6.2000e-003	0.0000	20.2514	20.2514	8.3000e-004	0.0000	20.2723
<b>Total</b>	<b>0.0127</b>	<b>0.0122</b>	<b>0.1055</b>	<b>2.2000e-004</b>	<b>0.0228</b>	<b>1.6000e-004</b>	<b>0.0229</b>	<b>6.0500e-003</b>	<b>1.5000e-004</b>	<b>6.2000e-003</b>	<b>0.0000</b>	<b>20.2514</b>	<b>20.2514</b>	<b>8.3000e-004</b>	<b>0.0000</b>	<b>20.2723</b>

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**3.5 Architectural Coating - 2018**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	4.5479					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0128	0.0863	0.0797	1.3000e-004		6.4700e-003	6.4700e-003		6.4700e-003	6.4700e-003	0.0000	10.9790	10.9790	1.0400e-003	0.0000	11.0051
<b>Total</b>	<b>4.5607</b>	<b>0.0863</b>	<b>0.0797</b>	<b>1.3000e-004</b>		<b>6.4700e-003</b>	<b>6.4700e-003</b>		<b>6.4700e-003</b>	<b>6.4700e-003</b>	<b>0.0000</b>	<b>10.9790</b>	<b>10.9790</b>	<b>1.0400e-003</b>	<b>0.0000</b>	<b>11.0051</b>

**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	0.0127	0.0122	0.1055	2.2000e-004	0.0228	1.6000e-004	0.0229	6.0500e-003	1.5000e-004	6.2000e-003	0.0000	20.2514	20.2514	8.3000e-004	0.0000	20.2723
<b>Total</b>	<b>0.0127</b>	<b>0.0122</b>	<b>0.1055</b>	<b>2.2000e-004</b>	<b>0.0228</b>	<b>1.6000e-004</b>	<b>0.0229</b>	<b>6.0500e-003</b>	<b>1.5000e-004</b>	<b>6.2000e-003</b>	<b>0.0000</b>	<b>20.2514</b>	<b>20.2514</b>	<b>8.3000e-004</b>	<b>0.0000</b>	<b>20.2723</b>

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**3.5 Architectural Coating - 2019**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	5.2353					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0132	0.0909	0.0912	1.5000e-004		6.3700e-003	6.3700e-003		6.3700e-003	6.3700e-003	0.0000	12.6386	12.6386	1.0700e-003	0.0000	12.6653
<b>Total</b>	<b>5.2485</b>	<b>0.0909</b>	<b>0.0912</b>	<b>1.5000e-004</b>		<b>6.3700e-003</b>	<b>6.3700e-003</b>		<b>6.3700e-003</b>	<b>6.3700e-003</b>	<b>0.0000</b>	<b>12.6386</b>	<b>12.6386</b>	<b>1.0700e-003</b>	<b>0.0000</b>	<b>12.6653</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0131	0.0123	0.1064	2.5000e-004	0.0262	1.8000e-004	0.0264	6.9700e-003	1.6000e-004	7.1300e-003	0.0000	22.6274	22.6274	8.4000e-004	0.0000	22.6485
<b>Total</b>	<b>0.0131</b>	<b>0.0123</b>	<b>0.1064</b>	<b>2.5000e-004</b>	<b>0.0262</b>	<b>1.8000e-004</b>	<b>0.0264</b>	<b>6.9700e-003</b>	<b>1.6000e-004</b>	<b>7.1300e-003</b>	<b>0.0000</b>	<b>22.6274</b>	<b>22.6274</b>	<b>8.4000e-004</b>	<b>0.0000</b>	<b>22.6485</b>

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**3.5 Architectural Coating - 2019**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	5.2353					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0132	0.0909	0.0912	1.5000e-004		6.3700e-003	6.3700e-003		6.3700e-003	6.3700e-003	0.0000	12.6386	12.6386	1.0700e-003	0.0000	12.6653
<b>Total</b>	<b>5.2485</b>	<b>0.0909</b>	<b>0.0912</b>	<b>1.5000e-004</b>		<b>6.3700e-003</b>	<b>6.3700e-003</b>		<b>6.3700e-003</b>	<b>6.3700e-003</b>	<b>0.0000</b>	<b>12.6386</b>	<b>12.6386</b>	<b>1.0700e-003</b>	<b>0.0000</b>	<b>12.6653</b>

**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	0.0131	0.0123	0.1064	2.5000e-004	0.0262	1.8000e-004	0.0264	6.9700e-003	1.6000e-004	7.1300e-003	0.0000	22.6274	22.6274	8.4000e-004	0.0000	22.6485
<b>Total</b>	<b>0.0131</b>	<b>0.0123</b>	<b>0.1064</b>	<b>2.5000e-004</b>	<b>0.0262</b>	<b>1.8000e-004</b>	<b>0.0264</b>	<b>6.9700e-003</b>	<b>1.6000e-004</b>	<b>7.1300e-003</b>	<b>0.0000</b>	<b>22.6274</b>	<b>22.6274</b>	<b>8.4000e-004</b>	<b>0.0000</b>	<b>22.6485</b>

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**3.6 Paving - 2019**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0145	0.1524	0.1467	2.3000e-004		8.2500e-003	8.2500e-003		7.5900e-003	7.5900e-003	0.0000	20.4752	20.4752	6.4800e-003	0.0000	20.6371
Paving	4.3600e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0189</b>	<b>0.1524</b>	<b>0.1467</b>	<b>2.3000e-004</b>		<b>8.2500e-003</b>	<b>8.2500e-003</b>		<b>7.5900e-003</b>	<b>7.5900e-003</b>	<b>0.0000</b>	<b>20.4752</b>	<b>20.4752</b>	<b>6.4800e-003</b>	<b>0.0000</b>	<b>20.6371</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.2000e-004	6.8000e-004	5.8600e-003	1.0000e-005	1.4400e-003	1.0000e-005	1.4500e-003	3.8000e-004	1.0000e-005	3.9000e-004	0.0000	1.2467	1.2467	5.0000e-005	0.0000	1.2479
<b>Total</b>	<b>7.2000e-004</b>	<b>6.8000e-004</b>	<b>5.8600e-003</b>	<b>1.0000e-005</b>	<b>1.4400e-003</b>	<b>1.0000e-005</b>	<b>1.4500e-003</b>	<b>3.8000e-004</b>	<b>1.0000e-005</b>	<b>3.9000e-004</b>	<b>0.0000</b>	<b>1.2467</b>	<b>1.2467</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>1.2479</b>

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**3.6 Paving - 2019**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0145	0.1524	0.1467	2.3000e-004		8.2500e-003	8.2500e-003		7.5900e-003	7.5900e-003	0.0000	20.4752	20.4752	6.4800e-003	0.0000	20.6371
Paving	4.3600e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0189</b>	<b>0.1524</b>	<b>0.1467</b>	<b>2.3000e-004</b>		<b>8.2500e-003</b>	<b>8.2500e-003</b>		<b>7.5900e-003</b>	<b>7.5900e-003</b>	<b>0.0000</b>	<b>20.4752</b>	<b>20.4752</b>	<b>6.4800e-003</b>	<b>0.0000</b>	<b>20.6371</b>

**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	7.2000e-004	6.8000e-004	5.8600e-003	1.0000e-005	1.4400e-003	1.0000e-005	1.4500e-003	3.8000e-004	1.0000e-005	3.9000e-004	0.0000	1.2467	1.2467	5.0000e-005	0.0000	1.2479
<b>Total</b>	<b>7.2000e-004</b>	<b>6.8000e-004</b>	<b>5.8600e-003</b>	<b>1.0000e-005</b>	<b>1.4400e-003</b>	<b>1.0000e-005</b>	<b>1.4500e-003</b>	<b>3.8000e-004</b>	<b>1.0000e-005</b>	<b>3.9000e-004</b>	<b>0.0000</b>	<b>1.2467</b>	<b>1.2467</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>1.2479</b>

**4.0 Operational Detail - Mobile**

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San Luis Ranch Project - 2018 Start - San Luis Obispo County APCD Air District, Annual

**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.8673	3.4948	9.3349	0.0228	1.9378	0.0289	1.9667	0.5191	0.0273	0.5463	0.0000	2,086.4176	2,086.4176	0.0942	0.0000	2,088.7734
Unmitigated	0.8673	3.4948	9.3349	0.0228	1.9378	0.0289	1.9667	0.5191	0.0273	0.5463	0.0000	2,086.4176	2,086.4176	0.0942	0.0000	2,088.7734

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	300.00	67.00	28.50	518,513	518,513
Hotel	970.00	972.00	706.00	1,502,636	1,502,636
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Regional Shopping Center	443.50	519.00	262.00	618,505	618,505
Single Family Housing	997.64	1,036.84	903.56	2,515,633	2,515,633
Total	2,711.14	2,594.84	1,900.06	5,155,287	5,155,287

**4.3 Trip Type Information**

San Luis Ranch Project - 2018 Start - San Luis Obispo County APCD Air District, Annual

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
General Office Building	13.00	5.00	5.00	33.00	48.00	19.00	77	19	4
Hotel	13.00	5.00	5.00	19.40	61.60	19.00	58	38	4
Parking Lot	13.00	5.00	5.00	0.00	0.00	0.00	0	0	0
Parking Lot	13.00	5.00	5.00	0.00	0.00	0.00	0	0	0
Regional Shopping Center	13.00	5.00	5.00	16.30	64.70	19.00	54	35	11
Single Family Housing	13.00	5.00	5.00	35.80	21.00	43.20	86	11	3

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	0.559162	0.032279	0.198583	0.128083	0.030808	0.007362	0.013004	0.019140	0.002385	0.001267	0.005421	0.000811	0.001695
Parking Lot	0.559162	0.032279	0.198583	0.128083	0.030808	0.007362	0.013004	0.019140	0.002385	0.001267	0.005421	0.000811	0.001695
Parking Lot	0.559162	0.032279	0.198583	0.128083	0.030808	0.007362	0.013004	0.019140	0.002385	0.001267	0.005421	0.000811	0.001695
Hotel	0.559162	0.032279	0.198583	0.128083	0.030808	0.007362	0.013004	0.019140	0.002385	0.001267	0.005421	0.000811	0.001695
Single Family Housing	0.559162	0.032279	0.198583	0.128083	0.030808	0.007362	0.013004	0.019140	0.002385	0.001267	0.005421	0.000811	0.001695
Regional Shopping Center	0.559162	0.032279	0.198583	0.128083	0.030808	0.007362	0.013004	0.019140	0.002385	0.001267	0.005421	0.000811	0.001695

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

Install Energy Efficient Appliances



San Luis Ranch Project - 2018 Start - San Luis Obispo County APCD Air District, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	1,470.2142	1,470.2142	0.0665	0.0138	1,475.9750
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	1,479.7997	1,479.7997	0.0669	0.0138	1,485.5980
NaturalGas Mitigated	0.1106	0.9843	0.6922	6.0300e-003		0.0764	0.0764		0.0764	0.0764	0.0000	1,094.1000	1,094.1000	0.0210	0.0201	1,100.6017
NaturalGas Unmitigated	0.1106	0.9843	0.6922	6.0300e-003		0.0764	0.0764		0.0764	0.0764	0.0000	1,094.1000	1,094.1000	0.0210	0.0201	1,100.6017

San Luis Ranch Project - 2018 Start - San Luis Obispo County APCD Air District, Annual

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Office Building	411250	2.2200e-003	0.0202	0.0169	1.2000e-004		1.5300e-003	1.5300e-003		1.5300e-003	1.5300e-003	0.0000	21.9459	21.9459	4.2000e-004	4.0000e-004	22.0763
Hotel	1.29257e+007	0.0697	0.6336	0.5322	3.8000e-003		0.0482	0.0482		0.0482	0.0482	0.0000	689.7648	689.7648	0.0132	0.0127	693.8637
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	119000	6.4000e-004	5.8300e-003	4.9000e-003	4.0000e-005		4.4000e-004	4.4000e-004		4.4000e-004	4.4000e-004	0.0000	6.3503	6.3503	1.2000e-004	1.2000e-004	6.3880
Single Family Housing	7.04671e+006	0.0380	0.3247	0.1382	2.0700e-003		0.0263	0.0263		0.0263	0.0263	0.0000	376.0391	376.0391	7.2100e-003	6.8900e-003	378.2737
<b>Total</b>		<b>0.1106</b>	<b>0.9843</b>	<b>0.6922</b>	<b>6.0300e-003</b>		<b>0.0764</b>	<b>0.0764</b>		<b>0.0764</b>	<b>0.0764</b>	<b>0.0000</b>	<b>1,094.1000</b>	<b>1,094.1000</b>	<b>0.0210</b>	<b>0.0201</b>	<b>1,100.6017</b>

San Luis Ranch Project - 2018 Start - San Luis Obispo County APCD Air District, Annual

**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	tons/yr										MT/yr					
General Office Building	411250	2.2200e-003	0.0202	0.0169	1.2000e-004		1.5300e-003	1.5300e-003		1.5300e-003	1.5300e-003	0.0000	21.9459	21.9459	4.2000e-004	4.0000e-004	22.0763
Hotel	1.29257e+007	0.0697	0.6336	0.5322	3.8000e-003		0.0482	0.0482		0.0482	0.0482	0.0000	689.7648	689.7648	0.0132	0.0127	693.8637
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	119000	6.4000e-004	5.8300e-003	4.9000e-003	4.0000e-005		4.4000e-004	4.4000e-004		4.4000e-004	4.4000e-004	0.0000	6.3503	6.3503	1.2000e-004	1.2000e-004	6.3880
Single Family Housing	7.04671e+006	0.0380	0.3247	0.1382	2.0700e-003		0.0263	0.0263		0.0263	0.0263	0.0000	376.0391	376.0391	7.2100e-003	6.8900e-003	378.2737
<b>Total</b>		<b>0.1106</b>	<b>0.9843</b>	<b>0.6922</b>	<b>6.0300e-003</b>		<b>0.0764</b>	<b>0.0764</b>		<b>0.0764</b>	<b>0.0764</b>	<b>0.0000</b>	<b>1,094.1000</b>	<b>1,094.1000</b>	<b>0.0210</b>	<b>0.0201</b>	<b>1,100.6017</b>

## San Luis Ranch Project - 2018 Start - San Luis Obispo County APCD Air District, Annual

**5.3 Energy by Land Use - Electricity****Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	455500	132.5102	5.9900e-003	1.2400e-003	133.0294
Hotel	2.25931e+006	657.2598	0.0297	6.1500e-003	659.8351
Parking Lot	46957.7	13.6605	6.2000e-004	1.3000e-004	13.7141
Parking Lot	80498.9	23.4181	1.0600e-003	2.2000e-004	23.5098
Regional Shopping Center	547500	159.2740	7.2000e-003	1.4900e-003	159.8981
Single Family Housing	1.697e+006	493.6771	0.0223	4.6200e-003	495.6115
<b>Total</b>		<b>1,479.7997</b>	<b>0.0669</b>	<b>0.0139</b>	<b>1,485.5980</b>

## San Luis Ranch Project - 2018 Start - San Luis Obispo County APCD Air District, Annual

**5.3 Energy by Land Use - Electricity****Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	455500	132.5102	5.9900e-003	1.2400e-003	133.0294
Hotel	2.25931e+006	657.2598	0.0297	6.1500e-003	659.8351
Parking Lot	46957.7	13.6605	6.2000e-004	1.3000e-004	13.7141
Parking Lot	80498.9	23.4181	1.0600e-003	2.2000e-004	23.5098
Regional Shopping Center	547500	159.2740	7.2000e-003	1.4900e-003	159.8981
Single Family Housing	1.66405e+006	484.0917	0.0219	4.5300e-003	485.9885
<b>Total</b>		<b>1,470.2142</b>	<b>0.0665</b>	<b>0.0138</b>	<b>1,475.9750</b>

**6.0 Area Detail****6.1 Mitigation Measures Area**

San Luis Ranch Project - 2018 Start - San Luis Obispo County APCD Air District, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	3.8746	0.0310	2.6817	1.4000e-004		0.0147	0.0147		0.0147	0.0147	0.0000	4.3674	4.3674	4.2700e-003	0.0000	4.4743
Unmitigated	3.8746	0.0310	2.6817	1.4000e-004		0.0147	0.0147		0.0147	0.0147	0.0000	4.3674	4.3674	4.2700e-003	0.0000	4.4743

**6.2 Area by SubCategory**

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.9783					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.8143					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0820	0.0310	2.6817	1.4000e-004		0.0147	0.0147		0.0147	0.0147	0.0000	4.3674	4.3674	4.2700e-003	0.0000	4.4743
<b>Total</b>	<b>3.8746</b>	<b>0.0310</b>	<b>2.6817</b>	<b>1.4000e-004</b>		<b>0.0147</b>	<b>0.0147</b>		<b>0.0147</b>	<b>0.0147</b>	<b>0.0000</b>	<b>4.3674</b>	<b>4.3674</b>	<b>4.2700e-003</b>	<b>0.0000</b>	<b>4.4743</b>

San Luis Ranch Project - 2018 Start - San Luis Obispo County APCD Air District, Annual

**6.2 Area by SubCategory**

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.9783					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.8143					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0820	0.0310	2.6817	1.4000e-004		0.0147	0.0147		0.0147	0.0147	0.0000	4.3674	4.3674	4.2700e-003	0.0000	4.4743
<b>Total</b>	<b>3.8746</b>	<b>0.0310</b>	<b>2.6817</b>	<b>1.4000e-004</b>		<b>0.0147</b>	<b>0.0147</b>		<b>0.0147</b>	<b>0.0147</b>	<b>0.0000</b>	<b>4.3674</b>	<b>4.3674</b>	<b>4.2700e-003</b>	<b>0.0000</b>	<b>4.4743</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

San Luis Ranch Project - 2018 Start - San Luis Obispo County APCD Air District, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	63.0131	0.8494	0.0205	90.3594
Unmitigated	63.0131	0.8494	0.0205	90.3594

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	4.44334 / 2.72334	11.1769	0.1452	3.5100e-003	15.8536
Hotel	5.07335 / 0.563706	10.1696	0.1657	3.9800e-003	15.4992
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	3.70363 / 2.26996	9.3162	0.1211	2.9300e-003	13.2144
Single Family Housing	12.7702 / 8.05077	32.3504	0.4174	0.0101	45.7922
<b>Total</b>		<b>63.0131</b>	<b>0.8494</b>	<b>0.0205</b>	<b>90.3594</b>



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**7.2 Water by Land Use**

**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	4.44334 / 2.72334	11.1769	0.1452	3.5100e-003	15.8536
Hotel	5.07335 / 0.563706	10.1696	0.1657	3.9800e-003	15.4992
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	3.70363 / 2.26996	9.3162	0.1211	2.9300e-003	13.2144
Single Family Housing	12.7702 / 8.05077	32.3504	0.4174	0.0101	45.7922
<b>Total</b>		<b>63.0131</b>	<b>0.8494</b>	<b>0.0205</b>	<b>90.3594</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

San Luis Ranch Project - 2018 Start - San Luis Obispo County APCD Air District, Annual

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	84.2940	4.9816	0.0000	208.8349
Unmitigated	84.2940	4.9816	0.0000	208.8349

**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	23.25	4.7195	0.2789	0.0000	11.6925
Hotel	109.5	22.2275	1.3136	0.0000	55.0677
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	52.5	10.6570	0.6298	0.0000	26.4023
Single Family Housing	230.01	46.6900	2.7593	0.0000	115.6724
<b>Total</b>		<b>84.2940</b>	<b>4.9816</b>	<b>0.0000</b>	<b>208.8349</b>

San Luis Ranch Project - 2018 Start - San Luis Obispo County APCD Air District, Annual

**8.2 Waste by Land Use**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	23.25	4.7195	0.2789	0.0000	11.6925
Hotel	109.5	22.2275	1.3136	0.0000	55.0677
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	52.5	10.6570	0.6298	0.0000	26.4023
Single Family Housing	230.01	46.6900	2.7593	0.0000	115.6724
<b>Total</b>		<b>84.2940</b>	<b>4.9816</b>	<b>0.0000</b>	<b>208.8349</b>

**9.0 Operational Offroad**

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

Fire Pumps and Emergency Generators

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

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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San Luis Ranch Project - 2018 Start - San Luis Obispo County APCD Air District, Annual

**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

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San Luis Ranch Project - 2018 Start - San Luis Obispo County APCD Air District, Summer

**San Luis Ranch Project - 2018 Start**  
**San Luis Obispo County APCD Air District, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	25.00	1000sqft	0.63	25,000.00	0
Parking Lot	2.10	Acre	2.10	91,476.00	0
Parking Lot	1.23	Acre	1.23	53,361.00	0
Hotel	200.00	Room	3.50	290,400.00	0
Single Family Housing	196.00	Dwelling Unit	15.00	352,800.00	561
Regional Shopping Center	50.00	1000sqft	1.15	50,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	3.2	<b>Precipitation Freq (Days)</b>	44
<b>Climate Zone</b>	4			<b>Operational Year</b>	2020
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MW hr)</b>	641.35	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

**1.3 User Entered Comments & Non-Default Data**

San Luis Ranch Project - 2018 Start - San Luis Obispo County APCD Air District, Summer

Project Characteristics -

Land Use - Land use values from buildout and phasing in Specific Plan Section 7.7. Includes portions of Phases 1, 2, 4, 5, and 6.

Construction Phase - No demolition in phases 1, 2, 4, 5 and 6. AC expected to overlap with half of building construction as painting would occur as buildings are finished.

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Grading - Total import proportionally distributed by phase acreage.

Vehicle Trips - Trip generation rate based on Omni-Means 2016 Traffic Impact Study.

Mobile Land Use Mitigation - Trip reductions from project's density, diversity, and access to alternative transportation accounted for in trip generation rates.

Energy Mitigation - Per Specific Plan, appliances will be energy efficient.

Water Mitigation -

Demolition -

Construction Off-road Equipment Mitigation -

Area Mitigation -

San Luis Ranch Project - 2018 Start - San Luis Obispo County APCD Air District, Summer

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	0
tblConstructionPhase	NumDays	20.00	185.00
tblGrading	MaterialImported	0.00	91,760.00
tblLandUse	BuildingSpaceSquareFeet	53,578.80	53,361.00
tblLandUse	LandUseSquareFeet	53,578.80	53,361.00
tblLandUse	LotAcreage	0.57	0.63
tblLandUse	LotAcreage	6.67	3.50
tblLandUse	LotAcreage	63.64	15.00
tblProjectCharacteristics	OperationalYear	2018	2020
tblVehicleTrips	ST_TR	2.46	2.68
tblVehicleTrips	ST_TR	8.19	4.86
tblVehicleTrips	ST_TR	49.97	10.38
tblVehicleTrips	ST_TR	9.91	5.29
tblVehicleTrips	SU_TR	1.05	1.14
tblVehicleTrips	SU_TR	5.95	3.53
tblVehicleTrips	SU_TR	25.24	5.24
tblVehicleTrips	SU_TR	8.62	4.61
tblVehicleTrips	WD_TR	11.03	12.00
tblVehicleTrips	WD_TR	8.17	4.85
tblVehicleTrips	WD_TR	42.70	8.87
tblVehicleTrips	WD_TR	9.52	5.09

**2.0 Emissions Summary**

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San Luis Ranch Project - 2018 Start - San Luis Obispo County APCD Air District, Summer

**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	21.2782	0.1879	16.2526	8.6000e-004		0.0893	0.0893		0.0893	0.0893	0.0000	29.1772	29.1772	0.0286	0.0000	29.8910
Energy	0.6058	5.3935	3.7931	0.0330		0.4185	0.4185		0.4185	0.4185		6,608.4318	6,608.4318	0.1267	0.1212	6,647.7024
Mobile	5.4953	20.2339	55.2733	0.1417	11.9424	0.1732	12.1155	3.1920	0.1631	3.3551		14,270.0678	14,270.0678	0.6209		14,285.5905
<b>Total</b>	<b>27.3792</b>	<b>25.8153</b>	<b>75.3190</b>	<b>0.1756</b>	<b>11.9424</b>	<b>0.6810</b>	<b>12.6234</b>	<b>3.1920</b>	<b>0.6709</b>	<b>3.8629</b>	<b>0.0000</b>	<b>20,907.6767</b>	<b>20,907.6767</b>	<b>0.7761</b>	<b>0.1212</b>	<b>20,963.1840</b>

**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	21.2782	0.1879	16.2526	8.6000e-004		0.0893	0.0893		0.0893	0.0893	0.0000	29.1772	29.1772	0.0286	0.0000	29.8910
Energy	0.6058	5.3935	3.7931	0.0330		0.4185	0.4185		0.4185	0.4185		6,608.4318	6,608.4318	0.1267	0.1212	6,647.7024
Mobile	5.4953	20.2339	55.2733	0.1417	11.9424	0.1732	12.1155	3.1920	0.1631	3.3551		14,270.0678	14,270.0678	0.6209		14,285.5905
<b>Total</b>	<b>27.3792</b>	<b>25.8153</b>	<b>75.3190</b>	<b>0.1756</b>	<b>11.9424</b>	<b>0.6810</b>	<b>12.6234</b>	<b>3.1920</b>	<b>0.6709</b>	<b>3.8629</b>	<b>0.0000</b>	<b>20,907.6767</b>	<b>20,907.6767</b>	<b>0.7761</b>	<b>0.1212</b>	<b>20,963.1840</b>

## San Luis Ranch Project - 2018 Start - San Luis Obispo County APCD Air District, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

### 3.0 Construction Detail

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#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/1/2018	1/12/2018	5	10	
2	Grading	Grading	1/13/2018	2/23/2018	5	35	
3	Building Construction	Building Construction	2/24/2018	4/19/2019	5	370	
4	Architectural Coating	Architectural Coating	9/3/2018	5/17/2019	5	185	
5	Paving	Paving	4/20/2019	5/17/2019	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 87.5

Acres of Paving: 3.33

Residential Indoor: 714,420; Residential Outdoor: 238,140; Non-Residential Indoor: 548,100; Non-Residential Outdoor: 182,700; Striped Parking Area: 8,690 (Architectural Coating – sqft)

#### OffRoad Equipment

San Luis Ranch Project - 2018 Start - San Luis Obispo County APCD Air District, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	11,470.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	277.00	105.00	0.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	55.00	0.00	0.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

San Luis Ranch Project - 2018 Start - San Luis Obispo County APCD Air District, Summer

Clean Paved Roads

**3.2 Site Preparation - 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										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.5627	48.1988	22.4763	0.0380		2.5769	2.5769		2.3708	2.3708		3,831.6239	3,831.6239	1.1928		3,861.4448
<b>Total</b>	<b>4.5627</b>	<b>48.1988</b>	<b>22.4763</b>	<b>0.0380</b>	<b>18.0663</b>	<b>2.5769</b>	<b>20.6432</b>	<b>9.9307</b>	<b>2.3708</b>	<b>12.3014</b>		<b>3,831.6239</b>	<b>3,831.6239</b>	<b>1.1928</b>		<b>3,861.4448</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0942	0.0833	0.8219	1.7800e-003	0.1780	1.2200e-003	0.1792	0.0472	1.1200e-003	0.0483		176.7876	176.7876	7.1600e-003		176.9666
<b>Total</b>	<b>0.0942</b>	<b>0.0833</b>	<b>0.8219</b>	<b>1.7800e-003</b>	<b>0.1780</b>	<b>1.2200e-003</b>	<b>0.1792</b>	<b>0.0472</b>	<b>1.1200e-003</b>	<b>0.0483</b>		<b>176.7876</b>	<b>176.7876</b>	<b>7.1600e-003</b>		<b>176.9666</b>

San Luis Ranch Project - 2018 Start - San Luis Obispo County APCD Air District, Summer

**3.2 Site Preparation - 2018**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.5627	48.1988	22.4763	0.0380		2.5769	2.5769		2.3708	2.3708	0.0000	3,831.6239	3,831.6239	1.1928		3,861.4448
<b>Total</b>	<b>4.5627</b>	<b>48.1988</b>	<b>22.4763</b>	<b>0.0380</b>	<b>18.0663</b>	<b>2.5769</b>	<b>20.6432</b>	<b>9.9307</b>	<b>2.3708</b>	<b>12.3014</b>	<b>0.0000</b>	<b>3,831.6239</b>	<b>3,831.6239</b>	<b>1.1928</b>		<b>3,861.4448</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0942	0.0833	0.8219	1.7800e-003	0.1780	1.2200e-003	0.1792	0.0472	1.1200e-003	0.0483		176.7876	176.7876	7.1600e-003		176.9666
<b>Total</b>	<b>0.0942</b>	<b>0.0833</b>	<b>0.8219</b>	<b>1.7800e-003</b>	<b>0.1780</b>	<b>1.2200e-003</b>	<b>0.1792</b>	<b>0.0472</b>	<b>1.1200e-003</b>	<b>0.0483</b>		<b>176.7876</b>	<b>176.7876</b>	<b>7.1600e-003</b>		<b>176.9666</b>

San Luis Ranch Project - 2018 Start - San Luis Obispo County APCD Air District, Summer

**3.3 Grading - 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										lb/day					
Fugitive Dust					9.1559	0.0000	9.1559	3.6696	0.0000	3.6696			0.0000			0.0000
Off-Road	5.0901	59.5218	35.0894	0.0620		2.6337	2.6337		2.4230	2.4230		6,244.4284	6,244.4284	1.9440		6,293.0278
<b>Total</b>	<b>5.0901</b>	<b>59.5218</b>	<b>35.0894</b>	<b>0.0620</b>	<b>9.1559</b>	<b>2.6337</b>	<b>11.7896</b>	<b>3.6696</b>	<b>2.4230</b>	<b>6.0926</b>		<b>6,244.4284</b>	<b>6,244.4284</b>	<b>1.9440</b>		<b>6,293.0278</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	3.8364	120.0134	26.9194	0.2648	6.4360	0.8839	7.3200	1.7422	0.8457	2.5878		28,440.8103	28,440.8103	1.5653		28,479.9415
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	0.1046	0.0926	0.9132	1.9800e-003	0.1977	1.3500e-003	0.1991	0.0524	1.2500e-003	0.0537		196.4307	196.4307	7.9500e-003		196.6295
<b>Total</b>	<b>3.9410</b>	<b>120.1059</b>	<b>27.8326</b>	<b>0.2668</b>	<b>6.6338</b>	<b>0.8853</b>	<b>7.5190</b>	<b>1.7946</b>	<b>0.8469</b>	<b>2.6415</b>		<b>28,637.2410</b>	<b>28,637.2410</b>	<b>1.5732</b>		<b>28,676.5710</b>

San Luis Ranch Project - 2018 Start - San Luis Obispo County APCD Air District, Summer

**3.3 Grading - 2018**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.1559	0.0000	9.1559	3.6696	0.0000	3.6696			0.0000			0.0000
Off-Road	5.0901	59.5218	35.0894	0.0620		2.6337	2.6337		2.4230	2.4230	0.0000	6,244.4284	6,244.4284	1.9440		6,293.0278
<b>Total</b>	<b>5.0901</b>	<b>59.5218</b>	<b>35.0894</b>	<b>0.0620</b>	<b>9.1559</b>	<b>2.6337</b>	<b>11.7896</b>	<b>3.6696</b>	<b>2.4230</b>	<b>6.0926</b>	<b>0.0000</b>	<b>6,244.4284</b>	<b>6,244.4284</b>	<b>1.9440</b>		<b>6,293.0278</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	3.8364	120.0134	26.9194	0.2648	6.4360	0.8839	7.3200	1.7422	0.8457	2.5878		28,440.8103	28,440.8103	1.5653		28,479.9415
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	0.1046	0.0926	0.9132	1.9800e-003	0.1977	1.3500e-003	0.1991	0.0524	1.2500e-003	0.0537		196.4307	196.4307	7.9500e-003		196.6295
<b>Total</b>	<b>3.9410</b>	<b>120.1059</b>	<b>27.8326</b>	<b>0.2668</b>	<b>6.6338</b>	<b>0.8853</b>	<b>7.5190</b>	<b>1.7946</b>	<b>0.8469</b>	<b>2.6415</b>		<b>28,637.2410</b>	<b>28,637.2410</b>	<b>1.5732</b>		<b>28,676.5710</b>

San Luis Ranch Project - 2018 Start - San Luis Obispo County APCD Air District, Summer

**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										lb/day					
Off-Road	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099		2,620.935 1	2,620.935 1	0.6421		2,636.988 3
<b>Total</b>	<b>2.6795</b>	<b>23.3900</b>	<b>17.5804</b>	<b>0.0269</b>		<b>1.4999</b>	<b>1.4999</b>		<b>1.4099</b>	<b>1.4099</b>		<b>2,620.935 1</b>	<b>2,620.935 1</b>	<b>0.6421</b>		<b>2,636.988 3</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.5522	12.4602	4.0061	0.0213	0.4872	0.1156	0.6029	0.1403	0.1106	0.2509		2,262.868 6	2,262.868 6	0.1436		2,266.458 7
Worker	1.4493	1.2823	12.6483	0.0274	2.7385	0.0187	2.7572	0.7263	0.0173	0.7436		2,720.565 0	2,720.565 0	0.1102		2,723.318 7
<b>Total</b>	<b>2.0015</b>	<b>13.7425</b>	<b>16.6543</b>	<b>0.0487</b>	<b>3.2257</b>	<b>0.1344</b>	<b>3.3600</b>	<b>0.8666</b>	<b>0.1279</b>	<b>0.9945</b>		<b>4,983.433 5</b>	<b>4,983.433 5</b>	<b>0.2538</b>		<b>4,989.777 4</b>



San Luis Ranch Project - 2018 Start - San Luis Obispo County APCD Air District, Summer

**3.4 Building Construction - 2018**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099	0.0000	2,620.935 1	2,620.935 1	0.6421		2,636.988 3
<b>Total</b>	<b>2.6795</b>	<b>23.3900</b>	<b>17.5804</b>	<b>0.0269</b>		<b>1.4999</b>	<b>1.4999</b>		<b>1.4099</b>	<b>1.4099</b>	<b>0.0000</b>	<b>2,620.935 1</b>	<b>2,620.935 1</b>	<b>0.6421</b>		<b>2,636.988 3</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.5522	12.4602	4.0061	0.0213	0.4872	0.1156	0.6029	0.1403	0.1106	0.2509		2,262.868 6	2,262.868 6	0.1436		2,266.458 7
Worker	1.4493	1.2823	12.6483	0.0274	2.7385	0.0187	2.7572	0.7263	0.0173	0.7436		2,720.565 0	2,720.565 0	0.1102		2,723.318 7
<b>Total</b>	<b>2.0015</b>	<b>13.7425</b>	<b>16.6543</b>	<b>0.0487</b>	<b>3.2257</b>	<b>0.1344</b>	<b>3.3600</b>	<b>0.8666</b>	<b>0.1279</b>	<b>0.9945</b>		<b>4,983.433 5</b>	<b>4,983.433 5</b>	<b>0.2538</b>		<b>4,989.777 4</b>

San Luis Ranch Project - 2018 Start - San Luis Obispo County APCD Air District, Summer

**3.4 Building Construction - 2019**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127		2,591.5802	2,591.5802	0.6313		2,607.3635
<b>Total</b>	<b>2.3612</b>	<b>21.0788</b>	<b>17.1638</b>	<b>0.0269</b>		<b>1.2899</b>	<b>1.2899</b>		<b>1.2127</b>	<b>1.2127</b>		<b>2,591.5802</b>	<b>2,591.5802</b>	<b>0.6313</b>		<b>2,607.3635</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.4805	11.8566	3.5289	0.0212	0.4873	0.0947	0.5820	0.1403	0.0906	0.2310		2,257.5596	2,257.5596	0.1387		2,261.0262
Worker	1.3012	1.1221	11.1315	0.0265	2.7385	0.0181	2.7566	0.7263	0.0167	0.7430		2,640.7748	2,640.7748	0.0970		2,643.2001
<b>Total</b>	<b>1.7817</b>	<b>12.9787</b>	<b>14.6603</b>	<b>0.0478</b>	<b>3.2258</b>	<b>0.1128</b>	<b>3.3386</b>	<b>0.8666</b>	<b>0.1074</b>	<b>0.9740</b>		<b>4,898.3345</b>	<b>4,898.3345</b>	<b>0.2357</b>		<b>4,904.2263</b>

San Luis Ranch Project - 2018 Start - San Luis Obispo County APCD Air District, Summer

**3.4 Building Construction - 2019**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127	0.0000	2,591.580 2	2,591.580 2	0.6313		2,607.363 5
<b>Total</b>	<b>2.3612</b>	<b>21.0788</b>	<b>17.1638</b>	<b>0.0269</b>		<b>1.2899</b>	<b>1.2899</b>		<b>1.2127</b>	<b>1.2127</b>	<b>0.0000</b>	<b>2,591.580 2</b>	<b>2,591.580 2</b>	<b>0.6313</b>		<b>2,607.363 5</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.4805	11.8566	3.5289	0.0212	0.4873	0.0947	0.5820	0.1403	0.0906	0.2310		2,257.559 6	2,257.559 6	0.1387		2,261.026 2
Worker	1.3012	1.1221	11.1315	0.0265	2.7385	0.0181	2.7566	0.7263	0.0167	0.7430		2,640.774 8	2,640.774 8	0.0970		2,643.200 1
<b>Total</b>	<b>1.7817</b>	<b>12.9787</b>	<b>14.6603</b>	<b>0.0478</b>	<b>3.2258</b>	<b>0.1128</b>	<b>3.3386</b>	<b>0.8666</b>	<b>0.1074</b>	<b>0.9740</b>		<b>4,898.334 5</b>	<b>4,898.334 5</b>	<b>0.2357</b>		<b>4,904.226 3</b>

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**3.5 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	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	105.7641					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2986	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506		281.4485	281.4485	0.0267		282.1171
<b>Total</b>	<b>106.0627</b>	<b>2.0058</b>	<b>1.8542</b>	<b>2.9700e-003</b>		<b>0.1506</b>	<b>0.1506</b>		<b>0.1506</b>	<b>0.1506</b>		<b>281.4485</b>	<b>281.4485</b>	<b>0.0267</b>		<b>282.1171</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2878	0.2546	2.5114	5.4300e-003	0.5437	3.7200e-003	0.5475	0.1442	3.4400e-003	0.1477		540.1844	540.1844	0.0219		540.7311
<b>Total</b>	<b>0.2878</b>	<b>0.2546</b>	<b>2.5114</b>	<b>5.4300e-003</b>	<b>0.5437</b>	<b>3.7200e-003</b>	<b>0.5475</b>	<b>0.1442</b>	<b>3.4400e-003</b>	<b>0.1477</b>		<b>540.1844</b>	<b>540.1844</b>	<b>0.0219</b>		<b>540.7311</b>

San Luis Ranch Project - 2018 Start - San Luis Obispo County APCD Air District, Summer

**3.5 Architectural Coating - 2018**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	105.7641					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2986	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506	0.0000	281.4485	281.4485	0.0267		282.1171
<b>Total</b>	<b>106.0627</b>	<b>2.0058</b>	<b>1.8542</b>	<b>2.9700e-003</b>		<b>0.1506</b>	<b>0.1506</b>		<b>0.1506</b>	<b>0.1506</b>	<b>0.0000</b>	<b>281.4485</b>	<b>281.4485</b>	<b>0.0267</b>		<b>282.1171</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2878	0.2546	2.5114	5.4300e-003	0.5437	3.7200e-003	0.5475	0.1442	3.4400e-003	0.1477		540.1844	540.1844	0.0219		540.7311
<b>Total</b>	<b>0.2878</b>	<b>0.2546</b>	<b>2.5114</b>	<b>5.4300e-003</b>	<b>0.5437</b>	<b>3.7200e-003</b>	<b>0.5475</b>	<b>0.1442</b>	<b>3.4400e-003</b>	<b>0.1477</b>		<b>540.1844</b>	<b>540.1844</b>	<b>0.0219</b>		<b>540.7311</b>

San Luis Ranch Project - 2018 Start - San Luis Obispo County APCD Air District, Summer

**3.5 Architectural Coating - 2019**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	105.7641					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2664	1.8354	1.8413	2.9700e-003		0.1288	0.1288		0.1288	0.1288		281.4481	281.4481	0.0238		282.0423
<b>Total</b>	<b>106.0305</b>	<b>1.8354</b>	<b>1.8413</b>	<b>2.9700e-003</b>		<b>0.1288</b>	<b>0.1288</b>		<b>0.1288</b>	<b>0.1288</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0238</b>		<b>282.0423</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2584	0.2228	2.2102	5.2700e-003	0.5437	3.6000e-003	0.5473	0.1442	3.3200e-003	0.1475		524.3416	524.3416	0.0193		524.8231
<b>Total</b>	<b>0.2584</b>	<b>0.2228</b>	<b>2.2102</b>	<b>5.2700e-003</b>	<b>0.5437</b>	<b>3.6000e-003</b>	<b>0.5473</b>	<b>0.1442</b>	<b>3.3200e-003</b>	<b>0.1475</b>		<b>524.3416</b>	<b>524.3416</b>	<b>0.0193</b>		<b>524.8231</b>

San Luis Ranch Project - 2018 Start - San Luis Obispo County APCD Air District, Summer

**3.5 Architectural Coating - 2019**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	105.7641					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2664	1.8354	1.8413	2.9700e-003		0.1288	0.1288		0.1288	0.1288	0.0000	281.4481	281.4481	0.0238		282.0423
<b>Total</b>	<b>106.0305</b>	<b>1.8354</b>	<b>1.8413</b>	<b>2.9700e-003</b>		<b>0.1288</b>	<b>0.1288</b>		<b>0.1288</b>	<b>0.1288</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0238</b>		<b>282.0423</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2584	0.2228	2.2102	5.2700e-003	0.5437	3.6000e-003	0.5473	0.1442	3.3200e-003	0.1475		524.3416	524.3416	0.0193		524.8231
<b>Total</b>	<b>0.2584</b>	<b>0.2228</b>	<b>2.2102</b>	<b>5.2700e-003</b>	<b>0.5437</b>	<b>3.6000e-003</b>	<b>0.5473</b>	<b>0.1442</b>	<b>3.3200e-003</b>	<b>0.1475</b>		<b>524.3416</b>	<b>524.3416</b>	<b>0.0193</b>		<b>524.8231</b>

San Luis Ranch Project - 2018 Start - San Luis Obispo County APCD Air District, Summer

**3.6 Paving - 2019**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4544	15.2441	14.6648	0.0228		0.8246	0.8246		0.7586	0.7586		2,257.0025	2,257.0025	0.7141		2,274.8548
Paving	0.4362					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.8907</b>	<b>15.2441</b>	<b>14.6648</b>	<b>0.0228</b>		<b>0.8246</b>	<b>0.8246</b>		<b>0.7586</b>	<b>0.7586</b>		<b>2,257.0025</b>	<b>2,257.0025</b>	<b>0.7141</b>		<b>2,274.8548</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0705	0.0608	0.6028	1.4400e-003	0.1483	9.8000e-004	0.1493	0.0393	9.1000e-004	0.0402		143.0023	143.0023	5.2500e-003		143.1336
<b>Total</b>	<b>0.0705</b>	<b>0.0608</b>	<b>0.6028</b>	<b>1.4400e-003</b>	<b>0.1483</b>	<b>9.8000e-004</b>	<b>0.1493</b>	<b>0.0393</b>	<b>9.1000e-004</b>	<b>0.0402</b>		<b>143.0023</b>	<b>143.0023</b>	<b>5.2500e-003</b>		<b>143.1336</b>



San Luis Ranch Project - 2018 Start - San Luis Obispo County APCD Air District, Summer

**3.6 Paving - 2019**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4544	15.2441	14.6648	0.0228		0.8246	0.8246		0.7586	0.7586	0.0000	2,257.0025	2,257.0025	0.7141		2,274.8548
Paving	0.4362					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.8907</b>	<b>15.2441</b>	<b>14.6648</b>	<b>0.0228</b>		<b>0.8246</b>	<b>0.8246</b>		<b>0.7586</b>	<b>0.7586</b>	<b>0.0000</b>	<b>2,257.0025</b>	<b>2,257.0025</b>	<b>0.7141</b>		<b>2,274.8548</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0705	0.0608	0.6028	1.4400e-003	0.1483	9.8000e-004	0.1493	0.0393	9.1000e-004	0.0402		143.0023	143.0023	5.2500e-003		143.1336
<b>Total</b>	<b>0.0705</b>	<b>0.0608</b>	<b>0.6028</b>	<b>1.4400e-003</b>	<b>0.1483</b>	<b>9.8000e-004</b>	<b>0.1493</b>	<b>0.0393</b>	<b>9.1000e-004</b>	<b>0.0402</b>		<b>143.0023</b>	<b>143.0023</b>	<b>5.2500e-003</b>		<b>143.1336</b>

**4.0 Operational Detail - Mobile**

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San Luis Ranch Project - 2018 Start - San Luis Obispo County APCD Air District, Summer

**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	5.4953	20.2339	55.2733	0.1417	11.9424	0.1732	12.1155	3.1920	0.1631	3.3551		14,270.0678	14,270.0678	0.6209		14,285.5905
Unmitigated	5.4953	20.2339	55.2733	0.1417	11.9424	0.1732	12.1155	3.1920	0.1631	3.3551		14,270.0678	14,270.0678	0.6209		14,285.5905

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	300.00	67.00	28.50	518,513	518,513
Hotel	970.00	972.00	706.00	1,502,636	1,502,636
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Regional Shopping Center	443.50	519.00	262.00	618,505	618,505
Single Family Housing	997.64	1,036.84	903.56	2,515,633	2,515,633
Total	2,711.14	2,594.84	1,900.06	5,155,287	5,155,287

**4.3 Trip Type Information**

San Luis Ranch Project - 2018 Start - San Luis Obispo County APCD Air District, Summer

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
General Office Building	13.00	5.00	5.00	33.00	48.00	19.00	77	19	4
Hotel	13.00	5.00	5.00	19.40	61.60	19.00	58	38	4
Parking Lot	13.00	5.00	5.00	0.00	0.00	0.00	0	0	0
Parking Lot	13.00	5.00	5.00	0.00	0.00	0.00	0	0	0
Regional Shopping Center	13.00	5.00	5.00	16.30	64.70	19.00	54	35	11
Single Family Housing	13.00	5.00	5.00	35.80	21.00	43.20	86	11	3

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	0.559162	0.032279	0.198583	0.128083	0.030808	0.007362	0.013004	0.019140	0.002385	0.001267	0.005421	0.000811	0.001695
Parking Lot	0.559162	0.032279	0.198583	0.128083	0.030808	0.007362	0.013004	0.019140	0.002385	0.001267	0.005421	0.000811	0.001695
Parking Lot	0.559162	0.032279	0.198583	0.128083	0.030808	0.007362	0.013004	0.019140	0.002385	0.001267	0.005421	0.000811	0.001695
Hotel	0.559162	0.032279	0.198583	0.128083	0.030808	0.007362	0.013004	0.019140	0.002385	0.001267	0.005421	0.000811	0.001695
Single Family Housing	0.559162	0.032279	0.198583	0.128083	0.030808	0.007362	0.013004	0.019140	0.002385	0.001267	0.005421	0.000811	0.001695
Regional Shopping Center	0.559162	0.032279	0.198583	0.128083	0.030808	0.007362	0.013004	0.019140	0.002385	0.001267	0.005421	0.000811	0.001695

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

Install Energy Efficient Appliances

San Luis Ranch Project - 2018 Start - San Luis Obispo County APCD Air District, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.6058	5.3935	3.7931	0.0330		0.4185	0.4185		0.4185	0.4185		6,608.4318	6,608.4318	0.1267	0.1212	6,647.7024
NaturalGas Unmitigated	0.6058	5.3935	3.7931	0.0330		0.4185	0.4185		0.4185	0.4185		6,608.4318	6,608.4318	0.1267	0.1212	6,647.7024

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Office Building	1126.71	0.0122	0.1105	0.0928	6.6000e-004		8.4000e-003	8.4000e-003		8.4000e-003	8.4000e-003		132.5544	132.5544	2.5400e-003	2.4300e-003	133.3421
Hotel	35412.9	0.3819	3.4719	2.9164	0.0208		0.2639	0.2639		0.2639	0.2639		4,166.2221	4,166.2221	0.0799	0.0764	4,190.9799
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	326.027	3.5200e-003	0.0320	0.0269	1.9000e-004		2.4300e-003	2.4300e-003		2.4300e-003	2.4300e-003		38.3562	38.3562	7.4000e-004	7.0000e-004	38.5841
Single Family Housing	19306	0.2082	1.7792	0.7571	0.0114		0.1439	0.1439		0.1439	0.1439		2,271.2992	2,271.2992	0.0435	0.0416	2,284.7964
<b>Total</b>		<b>0.6058</b>	<b>5.3935</b>	<b>3.7931</b>	<b>0.0330</b>		<b>0.4185</b>	<b>0.4185</b>		<b>0.4185</b>	<b>0.4185</b>		<b>6,608.4318</b>	<b>6,608.4318</b>	<b>0.1267</b>	<b>0.1212</b>	<b>6,647.7024</b>

San Luis Ranch Project - 2018 Start - San Luis Obispo County APCD Air District, Summer

**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					
General Office Building	1.12671	0.0122	0.1105	0.0928	6.6000e-004		8.4000e-003	8.4000e-003		8.4000e-003	8.4000e-003		132.5544	132.5544	2.5400e-003	2.4300e-003	133.3421
Hotel	35.4129	0.3819	3.4719	2.9164	0.0208		0.2639	0.2639		0.2639	0.2639		4,166.2221	4,166.2221	0.0799	0.0764	4,190.9799
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	0.326027	3.5200e-003	0.0320	0.0269	1.9000e-004		2.4300e-003	2.4300e-003		2.4300e-003	2.4300e-003		38.3562	38.3562	7.4000e-004	7.0000e-004	38.5841
Single Family Housing	19.306	0.2082	1.7792	0.7571	0.0114		0.1439	0.1439		0.1439	0.1439		2,271.2992	2,271.2992	0.0435	0.0416	2,284.7964
<b>Total</b>		<b>0.6058</b>	<b>5.3935</b>	<b>3.7931</b>	<b>0.0330</b>		<b>0.4185</b>	<b>0.4185</b>		<b>0.4185</b>	<b>0.4185</b>		<b>6,608.4318</b>	<b>6,608.4318</b>	<b>0.1267</b>	<b>0.1212</b>	<b>6,647.7024</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

San Luis Ranch Project - 2018 Start - San Luis Obispo County APCD Air District, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	21.2782	0.1879	16.2526	8.6000e-004		0.0893	0.0893		0.0893	0.0893	0.0000	29.1772	29.1772	0.0286	0.0000	29.8910
Unmitigated	21.2782	0.1879	16.2526	8.6000e-004		0.0893	0.0893		0.0893	0.0893	0.0000	29.1772	29.1772	0.0286	0.0000	29.8910

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	5.3606					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	15.4208					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.4967	0.1879	16.2526	8.6000e-004		0.0893	0.0893		0.0893	0.0893		29.1772	29.1772	0.0286		29.8910
<b>Total</b>	<b>21.2782</b>	<b>0.1879</b>	<b>16.2526</b>	<b>8.6000e-004</b>		<b>0.0893</b>	<b>0.0893</b>		<b>0.0893</b>	<b>0.0893</b>	<b>0.0000</b>	<b>29.1772</b>	<b>29.1772</b>	<b>0.0286</b>	<b>0.0000</b>	<b>29.8910</b>

San Luis Ranch Project - 2018 Start - San Luis Obispo County APCD Air District, Summer

**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	5.3606					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	15.4208					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.4967	0.1879	16.2526	8.6000e-004		0.0893	0.0893		0.0893	0.0893		29.1772	29.1772	0.0286		29.8910
<b>Total</b>	<b>21.2782</b>	<b>0.1879</b>	<b>16.2526</b>	<b>8.6000e-004</b>		<b>0.0893</b>	<b>0.0893</b>		<b>0.0893</b>	<b>0.0893</b>	<b>0.0000</b>	<b>29.1772</b>	<b>29.1772</b>	<b>0.0286</b>	<b>0.0000</b>	<b>29.8910</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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

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San Luis Ranch Project - 2018 Start - San Luis Obispo County APCD Air District, Summer

**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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**11.0 Vegetation**

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San Luis Ranch Project - 2018 Start - San Luis Obispo County APCD Air District, Winter

**San Luis Ranch Project - 2018 Start**  
**San Luis Obispo County APCD Air District, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	25.00	1000sqft	0.63	25,000.00	0
Parking Lot	2.10	Acre	2.10	91,476.00	0
Parking Lot	1.23	Acre	1.23	53,361.00	0
Hotel	200.00	Room	3.50	290,400.00	0
Single Family Housing	196.00	Dwelling Unit	15.00	352,800.00	561
Regional Shopping Center	50.00	1000sqft	1.15	50,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	3.2	<b>Precipitation Freq (Days)</b>	44
<b>Climate Zone</b>	4			<b>Operational Year</b>	2020
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MW hr)</b>	641.35	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

**1.3 User Entered Comments & Non-Default Data**

San Luis Ranch Project - 2018 Start - San Luis Obispo County APCD Air District, Winter

Project Characteristics -

Land Use - Land use values from buildout and phasing in Specific Plan Section 7.7. Includes portions of Phases 1, 2, 4, 5, and 6.

Construction Phase - No demolition in phases 1, 2, 4, 5 and 6. AC expected to overlap with half of building construction as painting would occur as buildings are finished.

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Grading - Total import proportionally distributed by phase acreage.

Vehicle Trips - Trip generation rate based on Omni-Means 2016 Traffic Impact Study.

Mobile Land Use Mitigation - Trip reductions from project's density, diversity, and access to alternative transportation accounted for in trip generation rates.

Energy Mitigation - Per Specific Plan, appliances will be energy efficient.

Water Mitigation -

Demolition -

Construction Off-road Equipment Mitigation -

Area Mitigation -

## San Luis Ranch Project - 2018 Start - San Luis Obispo County APCD Air District, Winter

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	0
tblConstructionPhase	NumDays	20.00	185.00
tblGrading	MaterialImported	0.00	91,760.00
tblLandUse	BuildingSpaceSquareFeet	53,578.80	53,361.00
tblLandUse	LandUseSquareFeet	53,578.80	53,361.00
tblLandUse	LotAcreage	0.57	0.63
tblLandUse	LotAcreage	6.67	3.50
tblLandUse	LotAcreage	63.64	15.00
tblProjectCharacteristics	OperationalYear	2018	2020
tblVehicleTrips	ST_TR	2.46	2.68
tblVehicleTrips	ST_TR	8.19	4.86
tblVehicleTrips	ST_TR	49.97	10.38
tblVehicleTrips	ST_TR	9.91	5.29
tblVehicleTrips	SU_TR	1.05	1.14
tblVehicleTrips	SU_TR	5.95	3.53
tblVehicleTrips	SU_TR	25.24	5.24
tblVehicleTrips	SU_TR	8.62	4.61
tblVehicleTrips	WD_TR	11.03	12.00
tblVehicleTrips	WD_TR	8.17	4.85
tblVehicleTrips	WD_TR	42.70	8.87
tblVehicleTrips	WD_TR	9.52	5.09

## 2.0 Emissions Summary

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San Luis Ranch Project - 2018 Start - San Luis Obispo County APCD Air District, Winter

**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	21.2782	0.1879	16.2526	8.6000e-004		0.0893	0.0893		0.0893	0.0893	0.0000	29.1772	29.1772	0.0286	0.0000	29.8910
Energy	0.6058	5.3935	3.7931	0.0330		0.4185	0.4185		0.4185	0.4185		6,608.4318	6,608.4318	0.1267	0.1212	6,647.7024
Mobile	5.3483	20.9785	57.4800	0.1361	11.9424	0.1750	12.1174	3.1920	0.1649	3.3569		13,705.1778	13,705.1778	0.6332		13,721.0087
<b>Total</b>	<b>27.2322</b>	<b>26.5599</b>	<b>77.5257</b>	<b>0.1700</b>	<b>11.9424</b>	<b>0.6829</b>	<b>12.6252</b>	<b>3.1920</b>	<b>0.6727</b>	<b>3.8647</b>	<b>0.0000</b>	<b>20,342.7867</b>	<b>20,342.7867</b>	<b>0.7885</b>	<b>0.1212</b>	<b>20,398.6022</b>

**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	21.2782	0.1879	16.2526	8.6000e-004		0.0893	0.0893		0.0893	0.0893	0.0000	29.1772	29.1772	0.0286	0.0000	29.8910
Energy	0.6058	5.3935	3.7931	0.0330		0.4185	0.4185		0.4185	0.4185		6,608.4318	6,608.4318	0.1267	0.1212	6,647.7024
Mobile	5.3483	20.9785	57.4800	0.1361	11.9424	0.1750	12.1174	3.1920	0.1649	3.3569		13,705.1778	13,705.1778	0.6332		13,721.0087
<b>Total</b>	<b>27.2322</b>	<b>26.5599</b>	<b>77.5257</b>	<b>0.1700</b>	<b>11.9424</b>	<b>0.6829</b>	<b>12.6252</b>	<b>3.1920</b>	<b>0.6727</b>	<b>3.8647</b>	<b>0.0000</b>	<b>20,342.7867</b>	<b>20,342.7867</b>	<b>0.7885</b>	<b>0.1212</b>	<b>20,398.6022</b>

## San Luis Ranch Project - 2018 Start - San Luis Obispo County APCD Air District, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

### 3.0 Construction Detail

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#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/1/2018	1/12/2018	5	10	
2	Grading	Grading	1/13/2018	2/23/2018	5	35	
3	Building Construction	Building Construction	2/24/2018	4/19/2019	5	370	
4	Architectural Coating	Architectural Coating	9/3/2018	5/17/2019	5	185	
5	Paving	Paving	4/20/2019	5/17/2019	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 87.5

Acres of Paving: 3.33

Residential Indoor: 714,420; Residential Outdoor: 238,140; Non-Residential Indoor: 548,100; Non-Residential Outdoor: 182,700; Striped Parking Area: 8,690 (Architectural Coating – sqft)

#### OffRoad Equipment

San Luis Ranch Project - 2018 Start - San Luis Obispo County APCD Air District, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	11,470.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	277.00	105.00	0.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	55.00	0.00	0.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

San Luis Ranch Project - 2018 Start - San Luis Obispo County APCD Air District, Winter

Clean Paved Roads

**3.2 Site Preparation - 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										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.5627	48.1988	22.4763	0.0380		2.5769	2.5769		2.3708	2.3708		3,831.6239	3,831.6239	1.1928		3,861.4448
<b>Total</b>	<b>4.5627</b>	<b>48.1988</b>	<b>22.4763</b>	<b>0.0380</b>	<b>18.0663</b>	<b>2.5769</b>	<b>20.6432</b>	<b>9.9307</b>	<b>2.3708</b>	<b>12.3014</b>		<b>3,831.6239</b>	<b>3,831.6239</b>	<b>1.1928</b>		<b>3,861.4448</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1070	0.0946	0.8091	1.7000e-003	0.1780	1.2200e-003	0.1792	0.0472	1.1200e-003	0.0483		168.5325	168.5325	7.0000e-003		168.7073
<b>Total</b>	<b>0.1070</b>	<b>0.0946</b>	<b>0.8091</b>	<b>1.7000e-003</b>	<b>0.1780</b>	<b>1.2200e-003</b>	<b>0.1792</b>	<b>0.0472</b>	<b>1.1200e-003</b>	<b>0.0483</b>		<b>168.5325</b>	<b>168.5325</b>	<b>7.0000e-003</b>		<b>168.7073</b>



San Luis Ranch Project - 2018 Start - San Luis Obispo County APCD Air District, Winter

**3.2 Site Preparation - 2018**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.5627	48.1988	22.4763	0.0380		2.5769	2.5769		2.3708	2.3708	0.0000	3,831.6239	3,831.6239	1.1928		3,861.4448
<b>Total</b>	<b>4.5627</b>	<b>48.1988</b>	<b>22.4763</b>	<b>0.0380</b>	<b>18.0663</b>	<b>2.5769</b>	<b>20.6432</b>	<b>9.9307</b>	<b>2.3708</b>	<b>12.3014</b>	<b>0.0000</b>	<b>3,831.6239</b>	<b>3,831.6239</b>	<b>1.1928</b>		<b>3,861.4448</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1070	0.0946	0.8091	1.7000e-003	0.1780	1.2200e-003	0.1792	0.0472	1.1200e-003	0.0483		168.5325	168.5325	7.0000e-003		168.7073
<b>Total</b>	<b>0.1070</b>	<b>0.0946</b>	<b>0.8091</b>	<b>1.7000e-003</b>	<b>0.1780</b>	<b>1.2200e-003</b>	<b>0.1792</b>	<b>0.0472</b>	<b>1.1200e-003</b>	<b>0.0483</b>		<b>168.5325</b>	<b>168.5325</b>	<b>7.0000e-003</b>		<b>168.7073</b>

San Luis Ranch Project - 2018 Start - San Luis Obispo County APCD Air District, Winter

**3.3 Grading - 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										lb/day					
Fugitive Dust					9.1559	0.0000	9.1559	3.6696	0.0000	3.6696			0.0000			0.0000
Off-Road	5.0901	59.5218	35.0894	0.0620		2.6337	2.6337		2.4230	2.4230		6,244.4284	6,244.4284	1.9440		6,293.0278
<b>Total</b>	<b>5.0901</b>	<b>59.5218</b>	<b>35.0894</b>	<b>0.0620</b>	<b>9.1559</b>	<b>2.6337</b>	<b>11.7896</b>	<b>3.6696</b>	<b>2.4230</b>	<b>6.0926</b>		<b>6,244.4284</b>	<b>6,244.4284</b>	<b>1.9440</b>		<b>6,293.0278</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	3.9377	121.0318	28.6781	0.2612	6.4360	0.9000	7.3360	1.7422	0.8610	2.6032		28,053.5166	28,053.5166	1.6194		28,094.0023
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	0.1189	0.1051	0.8989	1.8800e-003	0.1977	1.3500e-003	0.1991	0.0524	1.2500e-003	0.0537		187.2583	187.2583	7.7700e-003		187.4526
<b>Total</b>	<b>4.0566</b>	<b>121.1369</b>	<b>29.5770</b>	<b>0.2631</b>	<b>6.6338</b>	<b>0.9013</b>	<b>7.5351</b>	<b>1.7946</b>	<b>0.8623</b>	<b>2.6569</b>		<b>28,240.7749</b>	<b>28,240.7749</b>	<b>1.6272</b>		<b>28,281.4549</b>

San Luis Ranch Project - 2018 Start - San Luis Obispo County APCD Air District, Winter

**3.3 Grading - 2018**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.1559	0.0000	9.1559	3.6696	0.0000	3.6696			0.0000			0.0000
Off-Road	5.0901	59.5218	35.0894	0.0620		2.6337	2.6337		2.4230	2.4230	0.0000	6,244.4284	6,244.4284	1.9440		6,293.0278
<b>Total</b>	<b>5.0901</b>	<b>59.5218</b>	<b>35.0894</b>	<b>0.0620</b>	<b>9.1559</b>	<b>2.6337</b>	<b>11.7896</b>	<b>3.6696</b>	<b>2.4230</b>	<b>6.0926</b>	<b>0.0000</b>	<b>6,244.4284</b>	<b>6,244.4284</b>	<b>1.9440</b>		<b>6,293.0278</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	3.9377	121.0318	28.6781	0.2612	6.4360	0.9000	7.3360	1.7422	0.8610	2.6032		28,053.5166	28,053.5166	1.6194		28,094.0023
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	0.1189	0.1051	0.8989	1.8800e-003	0.1977	1.3500e-003	0.1991	0.0524	1.2500e-003	0.0537		187.2583	187.2583	7.7700e-003		187.4526
<b>Total</b>	<b>4.0566</b>	<b>121.1369</b>	<b>29.5770</b>	<b>0.2631</b>	<b>6.6338</b>	<b>0.9013</b>	<b>7.5351</b>	<b>1.7946</b>	<b>0.8623</b>	<b>2.6569</b>		<b>28,240.7749</b>	<b>28,240.7749</b>	<b>1.6272</b>		<b>28,281.4549</b>

San Luis Ranch Project - 2018 Start - San Luis Obispo County APCD Air District, Winter

**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										lb/day					
Off-Road	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099		2,620.935 1	2,620.935 1	0.6421		2,636.988 3
<b>Total</b>	<b>2.6795</b>	<b>23.3900</b>	<b>17.5804</b>	<b>0.0269</b>		<b>1.4999</b>	<b>1.4999</b>		<b>1.4099</b>	<b>1.4099</b>		<b>2,620.935 1</b>	<b>2,620.935 1</b>	<b>0.6421</b>		<b>2,636.988 3</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.5809	12.4291	4.4864	0.0207	0.4872	0.1186	0.6058	0.1403	0.1134	0.2537		2,198.492 0	2,198.492 0	0.1535		2,202.330 1
Worker	1.6464	1.4551	12.4504	0.0261	2.7385	0.0187	2.7572	0.7263	0.0173	0.7436		2,593.527 2	2,593.527 2	0.1077		2,596.218 5
<b>Total</b>	<b>2.2273</b>	<b>13.8842</b>	<b>16.9368</b>	<b>0.0468</b>	<b>3.2257</b>	<b>0.1373</b>	<b>3.3630</b>	<b>0.8666</b>	<b>0.1307</b>	<b>0.9973</b>		<b>4,792.019 2</b>	<b>4,792.019 2</b>	<b>0.2612</b>		<b>4,798.548 6</b>

San Luis Ranch Project - 2018 Start - San Luis Obispo County APCD Air District, Winter

**3.4 Building Construction - 2018**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099	0.0000	2,620.935 1	2,620.935 1	0.6421		2,636.988 3
<b>Total</b>	<b>2.6795</b>	<b>23.3900</b>	<b>17.5804</b>	<b>0.0269</b>		<b>1.4999</b>	<b>1.4999</b>		<b>1.4099</b>	<b>1.4099</b>	<b>0.0000</b>	<b>2,620.935 1</b>	<b>2,620.935 1</b>	<b>0.6421</b>		<b>2,636.988 3</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.5809	12.4291	4.4864	0.0207	0.4872	0.1186	0.6058	0.1403	0.1134	0.2537		2,198.492 0	2,198.492 0	0.1535		2,202.330 1
Worker	1.6464	1.4551	12.4504	0.0261	2.7385	0.0187	2.7572	0.7263	0.0173	0.7436		2,593.527 2	2,593.527 2	0.1077		2,596.218 5
<b>Total</b>	<b>2.2273</b>	<b>13.8842</b>	<b>16.9368</b>	<b>0.0468</b>	<b>3.2257</b>	<b>0.1373</b>	<b>3.3630</b>	<b>0.8666</b>	<b>0.1307</b>	<b>0.9973</b>		<b>4,792.019 2</b>	<b>4,792.019 2</b>	<b>0.2612</b>		<b>4,798.548 6</b>

San Luis Ranch Project - 2018 Start - San Luis Obispo County APCD Air District, Winter

**3.4 Building Construction - 2019**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127		2,591.580 2	2,591.580 2	0.6313		2,607.363 5
<b>Total</b>	<b>2.3612</b>	<b>21.0788</b>	<b>17.1638</b>	<b>0.0269</b>		<b>1.2899</b>	<b>1.2899</b>		<b>1.2127</b>	<b>1.2127</b>		<b>2,591.580 2</b>	<b>2,591.580 2</b>	<b>0.6313</b>		<b>2,607.363 5</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.5054	11.8154	3.9662	0.0206	0.4873	0.0974	0.5847	0.1403	0.0932	0.2335		2,191.575 4	2,191.575 4	0.1483		2,195.281 8
Worker	1.4804	1.2739	10.8880	0.0253	2.7385	0.0181	2.7566	0.7263	0.0167	0.7430		2,517.250 8	2,517.250 8	0.0945		2,519.613 1
<b>Total</b>	<b>1.9858</b>	<b>13.0893</b>	<b>14.8542</b>	<b>0.0459</b>	<b>3.2258</b>	<b>0.1155</b>	<b>3.3412</b>	<b>0.8666</b>	<b>0.1099</b>	<b>0.9765</b>		<b>4,708.826 3</b>	<b>4,708.826 3</b>	<b>0.2427</b>		<b>4,714.894 9</b>

San Luis Ranch Project - 2018 Start - San Luis Obispo County APCD Air District, Winter

**3.4 Building Construction - 2019**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127	0.0000	2,591.580 2	2,591.580 2	0.6313		2,607.363 5
<b>Total</b>	<b>2.3612</b>	<b>21.0788</b>	<b>17.1638</b>	<b>0.0269</b>		<b>1.2899</b>	<b>1.2899</b>		<b>1.2127</b>	<b>1.2127</b>	<b>0.0000</b>	<b>2,591.580 2</b>	<b>2,591.580 2</b>	<b>0.6313</b>		<b>2,607.363 5</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.5054	11.8154	3.9662	0.0206	0.4873	0.0974	0.5847	0.1403	0.0932	0.2335		2,191.575 4	2,191.575 4	0.1483		2,195.281 8
Worker	1.4804	1.2739	10.8880	0.0253	2.7385	0.0181	2.7566	0.7263	0.0167	0.7430		2,517.250 8	2,517.250 8	0.0945		2,519.613 1
<b>Total</b>	<b>1.9858</b>	<b>13.0893</b>	<b>14.8542</b>	<b>0.0459</b>	<b>3.2258</b>	<b>0.1155</b>	<b>3.3412</b>	<b>0.8666</b>	<b>0.1099</b>	<b>0.9765</b>		<b>4,708.826 3</b>	<b>4,708.826 3</b>	<b>0.2427</b>		<b>4,714.894 9</b>

San Luis Ranch Project - 2018 Start - San Luis Obispo County APCD Air District, Winter

**3.5 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	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	105.7641					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2986	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506		281.4485	281.4485	0.0267		282.1171
<b>Total</b>	<b>106.0627</b>	<b>2.0058</b>	<b>1.8542</b>	<b>2.9700e-003</b>		<b>0.1506</b>	<b>0.1506</b>		<b>0.1506</b>	<b>0.1506</b>		<b>281.4485</b>	<b>281.4485</b>	<b>0.0267</b>		<b>282.1171</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.3269	0.2889	2.4721	5.1800e-003	0.5437	3.7200e-003	0.5475	0.1442	3.4400e-003	0.1477		514.9603	514.9603	0.0214		515.4947
<b>Total</b>	<b>0.3269</b>	<b>0.2889</b>	<b>2.4721</b>	<b>5.1800e-003</b>	<b>0.5437</b>	<b>3.7200e-003</b>	<b>0.5475</b>	<b>0.1442</b>	<b>3.4400e-003</b>	<b>0.1477</b>		<b>514.9603</b>	<b>514.9603</b>	<b>0.0214</b>		<b>515.4947</b>



San Luis Ranch Project - 2018 Start - San Luis Obispo County APCD Air District, Winter

**3.5 Architectural Coating - 2018**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	105.7641					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2986	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506	0.0000	281.4485	281.4485	0.0267		282.1171
<b>Total</b>	<b>106.0627</b>	<b>2.0058</b>	<b>1.8542</b>	<b>2.9700e-003</b>		<b>0.1506</b>	<b>0.1506</b>		<b>0.1506</b>	<b>0.1506</b>	<b>0.0000</b>	<b>281.4485</b>	<b>281.4485</b>	<b>0.0267</b>		<b>282.1171</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.3269	0.2889	2.4721	5.1800e-003	0.5437	3.7200e-003	0.5475	0.1442	3.4400e-003	0.1477		514.9603	514.9603	0.0214		515.4947
<b>Total</b>	<b>0.3269</b>	<b>0.2889</b>	<b>2.4721</b>	<b>5.1800e-003</b>	<b>0.5437</b>	<b>3.7200e-003</b>	<b>0.5475</b>	<b>0.1442</b>	<b>3.4400e-003</b>	<b>0.1477</b>		<b>514.9603</b>	<b>514.9603</b>	<b>0.0214</b>		<b>515.4947</b>

San Luis Ranch Project - 2018 Start - San Luis Obispo County APCD Air District, Winter

**3.5 Architectural Coating - 2019**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	105.7641					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2664	1.8354	1.8413	2.9700e-003		0.1288	0.1288		0.1288	0.1288		281.4481	281.4481	0.0238		282.0423
<b>Total</b>	<b>106.0305</b>	<b>1.8354</b>	<b>1.8413</b>	<b>2.9700e-003</b>		<b>0.1288</b>	<b>0.1288</b>		<b>0.1288</b>	<b>0.1288</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0238</b>		<b>282.0423</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2939	0.2529	2.1619	5.0200e-003	0.5437	3.6000e-003	0.5473	0.1442	3.3200e-003	0.1475		499.8152	499.8152	0.0188		500.2842
<b>Total</b>	<b>0.2939</b>	<b>0.2529</b>	<b>2.1619</b>	<b>5.0200e-003</b>	<b>0.5437</b>	<b>3.6000e-003</b>	<b>0.5473</b>	<b>0.1442</b>	<b>3.3200e-003</b>	<b>0.1475</b>		<b>499.8152</b>	<b>499.8152</b>	<b>0.0188</b>		<b>500.2842</b>

San Luis Ranch Project - 2018 Start - San Luis Obispo County APCD Air District, Winter

**3.5 Architectural Coating - 2019**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	105.7641					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2664	1.8354	1.8413	2.9700e-003		0.1288	0.1288		0.1288	0.1288	0.0000	281.4481	281.4481	0.0238		282.0423
<b>Total</b>	<b>106.0305</b>	<b>1.8354</b>	<b>1.8413</b>	<b>2.9700e-003</b>		<b>0.1288</b>	<b>0.1288</b>		<b>0.1288</b>	<b>0.1288</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0238</b>		<b>282.0423</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2939	0.2529	2.1619	5.0200e-003	0.5437	3.6000e-003	0.5473	0.1442	3.3200e-003	0.1475		499.8152	499.8152	0.0188		500.2842
<b>Total</b>	<b>0.2939</b>	<b>0.2529</b>	<b>2.1619</b>	<b>5.0200e-003</b>	<b>0.5437</b>	<b>3.6000e-003</b>	<b>0.5473</b>	<b>0.1442</b>	<b>3.3200e-003</b>	<b>0.1475</b>		<b>499.8152</b>	<b>499.8152</b>	<b>0.0188</b>		<b>500.2842</b>

San Luis Ranch Project - 2018 Start - San Luis Obispo County APCD Air District, Winter

**3.6 Paving - 2019**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4544	15.2441	14.6648	0.0228		0.8246	0.8246		0.7586	0.7586		2,257.0025	2,257.0025	0.7141		2,274.8548
Paving	0.4362					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.8907</b>	<b>15.2441</b>	<b>14.6648</b>	<b>0.0228</b>		<b>0.8246</b>	<b>0.8246</b>		<b>0.7586</b>	<b>0.7586</b>		<b>2,257.0025</b>	<b>2,257.0025</b>	<b>0.7141</b>		<b>2,274.8548</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0802	0.0690	0.5896	1.3700e-003	0.1483	9.8000e-004	0.1493	0.0393	9.1000e-004	0.0402		136.3132	136.3132	5.1200e-003		136.4411
<b>Total</b>	<b>0.0802</b>	<b>0.0690</b>	<b>0.5896</b>	<b>1.3700e-003</b>	<b>0.1483</b>	<b>9.8000e-004</b>	<b>0.1493</b>	<b>0.0393</b>	<b>9.1000e-004</b>	<b>0.0402</b>		<b>136.3132</b>	<b>136.3132</b>	<b>5.1200e-003</b>		<b>136.4411</b>

San Luis Ranch Project - 2018 Start - San Luis Obispo County APCD Air District, Winter

**3.6 Paving - 2019**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4544	15.2441	14.6648	0.0228		0.8246	0.8246		0.7586	0.7586	0.0000	2,257.0025	2,257.0025	0.7141		2,274.8548
Paving	0.4362					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.8907</b>	<b>15.2441</b>	<b>14.6648</b>	<b>0.0228</b>		<b>0.8246</b>	<b>0.8246</b>		<b>0.7586</b>	<b>0.7586</b>	<b>0.0000</b>	<b>2,257.0025</b>	<b>2,257.0025</b>	<b>0.7141</b>		<b>2,274.8548</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0802	0.0690	0.5896	1.3700e-003	0.1483	9.8000e-004	0.1493	0.0393	9.1000e-004	0.0402		136.3132	136.3132	5.1200e-003		136.4411
<b>Total</b>	<b>0.0802</b>	<b>0.0690</b>	<b>0.5896</b>	<b>1.3700e-003</b>	<b>0.1483</b>	<b>9.8000e-004</b>	<b>0.1493</b>	<b>0.0393</b>	<b>9.1000e-004</b>	<b>0.0402</b>		<b>136.3132</b>	<b>136.3132</b>	<b>5.1200e-003</b>		<b>136.4411</b>

**4.0 Operational Detail - Mobile**

San Luis Ranch Project - 2018 Start - San Luis Obispo County APCD Air District, Winter

**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	5.3483	20.9785	57.4800	0.1361	11.9424	0.1750	12.1174	3.1920	0.1649	3.3569		13,705.1778	13,705.1778	0.6332		13,721.0087
Unmitigated	5.3483	20.9785	57.4800	0.1361	11.9424	0.1750	12.1174	3.1920	0.1649	3.3569		13,705.1778	13,705.1778	0.6332		13,721.0087

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	300.00	67.00	28.50	518,513	518,513
Hotel	970.00	972.00	706.00	1,502,636	1,502,636
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Regional Shopping Center	443.50	519.00	262.00	618,505	618,505
Single Family Housing	997.64	1,036.84	903.56	2,515,633	2,515,633
Total	2,711.14	2,594.84	1,900.06	5,155,287	5,155,287

**4.3 Trip Type Information**

San Luis Ranch Project - 2018 Start - San Luis Obispo County APCD Air District, Winter

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
General Office Building	13.00	5.00	5.00	33.00	48.00	19.00	77	19	4
Hotel	13.00	5.00	5.00	19.40	61.60	19.00	58	38	4
Parking Lot	13.00	5.00	5.00	0.00	0.00	0.00	0	0	0
Parking Lot	13.00	5.00	5.00	0.00	0.00	0.00	0	0	0
Regional Shopping Center	13.00	5.00	5.00	16.30	64.70	19.00	54	35	11
Single Family Housing	13.00	5.00	5.00	35.80	21.00	43.20	86	11	3

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	0.559162	0.032279	0.198583	0.128083	0.030808	0.007362	0.013004	0.019140	0.002385	0.001267	0.005421	0.000811	0.001695
Parking Lot	0.559162	0.032279	0.198583	0.128083	0.030808	0.007362	0.013004	0.019140	0.002385	0.001267	0.005421	0.000811	0.001695
Parking Lot	0.559162	0.032279	0.198583	0.128083	0.030808	0.007362	0.013004	0.019140	0.002385	0.001267	0.005421	0.000811	0.001695
Hotel	0.559162	0.032279	0.198583	0.128083	0.030808	0.007362	0.013004	0.019140	0.002385	0.001267	0.005421	0.000811	0.001695
Single Family Housing	0.559162	0.032279	0.198583	0.128083	0.030808	0.007362	0.013004	0.019140	0.002385	0.001267	0.005421	0.000811	0.001695
Regional Shopping Center	0.559162	0.032279	0.198583	0.128083	0.030808	0.007362	0.013004	0.019140	0.002385	0.001267	0.005421	0.000811	0.001695

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

Install Energy Efficient Appliances

San Luis Ranch Project - 2018 Start - San Luis Obispo County APCD Air District, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.6058	5.3935	3.7931	0.0330		0.4185	0.4185		0.4185	0.4185		6,608.4318	6,608.4318	0.1267	0.1212	6,647.7024
NaturalGas Unmitigated	0.6058	5.3935	3.7931	0.0330		0.4185	0.4185		0.4185	0.4185		6,608.4318	6,608.4318	0.1267	0.1212	6,647.7024

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Office Building	1126.71	0.0122	0.1105	0.0928	6.6000e-004		8.4000e-003	8.4000e-003		8.4000e-003	8.4000e-003		132.5544	132.5544	2.5400e-003	2.4300e-003	133.3421
Hotel	35412.9	0.3819	3.4719	2.9164	0.0208		0.2639	0.2639		0.2639	0.2639		4,166.2221	4,166.2221	0.0799	0.0764	4,190.9799
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	326.027	3.5200e-003	0.0320	0.0269	1.9000e-004		2.4300e-003	2.4300e-003		2.4300e-003	2.4300e-003		38.3562	38.3562	7.4000e-004	7.0000e-004	38.5841
Single Family Housing	19306	0.2082	1.7792	0.7571	0.0114		0.1439	0.1439		0.1439	0.1439		2,271.2992	2,271.2992	0.0435	0.0416	2,284.7964
<b>Total</b>		<b>0.6058</b>	<b>5.3935</b>	<b>3.7931</b>	<b>0.0330</b>		<b>0.4185</b>	<b>0.4185</b>		<b>0.4185</b>	<b>0.4185</b>		<b>6,608.4318</b>	<b>6,608.4318</b>	<b>0.1267</b>	<b>0.1212</b>	<b>6,647.7024</b>



San Luis Ranch Project - 2018 Start - San Luis Obispo County APCD Air District, Winter

**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					
General Office Building	1.12671	0.0122	0.1105	0.0928	6.6000e-004		8.4000e-003	8.4000e-003		8.4000e-003	8.4000e-003		132.5544	132.5544	2.5400e-003	2.4300e-003	133.3421
Hotel	35.4129	0.3819	3.4719	2.9164	0.0208		0.2639	0.2639		0.2639	0.2639		4,166.2221	4,166.2221	0.0799	0.0764	4,190.9799
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	0.326027	3.5200e-003	0.0320	0.0269	1.9000e-004		2.4300e-003	2.4300e-003		2.4300e-003	2.4300e-003		38.3562	38.3562	7.4000e-004	7.0000e-004	38.5841
Single Family Housing	19.306	0.2082	1.7792	0.7571	0.0114		0.1439	0.1439		0.1439	0.1439		2,271.2992	2,271.2992	0.0435	0.0416	2,284.7964
<b>Total</b>		<b>0.6058</b>	<b>5.3935</b>	<b>3.7931</b>	<b>0.0330</b>		<b>0.4185</b>	<b>0.4185</b>		<b>0.4185</b>	<b>0.4185</b>		<b>6,608.4318</b>	<b>6,608.4318</b>	<b>0.1267</b>	<b>0.1212</b>	<b>6,647.7024</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

San Luis Ranch Project - 2018 Start - San Luis Obispo County APCD Air District, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	21.2782	0.1879	16.2526	8.6000e-004		0.0893	0.0893		0.0893	0.0893	0.0000	29.1772	29.1772	0.0286	0.0000	29.8910
Unmitigated	21.2782	0.1879	16.2526	8.6000e-004		0.0893	0.0893		0.0893	0.0893	0.0000	29.1772	29.1772	0.0286	0.0000	29.8910

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	5.3606					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	15.4208					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.4967	0.1879	16.2526	8.6000e-004		0.0893	0.0893		0.0893	0.0893		29.1772	29.1772	0.0286		29.8910
<b>Total</b>	<b>21.2782</b>	<b>0.1879</b>	<b>16.2526</b>	<b>8.6000e-004</b>		<b>0.0893</b>	<b>0.0893</b>		<b>0.0893</b>	<b>0.0893</b>	<b>0.0000</b>	<b>29.1772</b>	<b>29.1772</b>	<b>0.0286</b>	<b>0.0000</b>	<b>29.8910</b>

San Luis Ranch Project - 2018 Start - San Luis Obispo County APCD Air District, Winter

**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	5.3606					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	15.4208					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.4967	0.1879	16.2526	8.6000e-004		0.0893	0.0893		0.0893	0.0893		29.1772	29.1772	0.0286		29.8910
<b>Total</b>	<b>21.2782</b>	<b>0.1879</b>	<b>16.2526</b>	<b>8.6000e-004</b>		<b>0.0893</b>	<b>0.0893</b>		<b>0.0893</b>	<b>0.0893</b>	<b>0.0000</b>	<b>29.1772</b>	<b>29.1772</b>	<b>0.0286</b>	<b>0.0000</b>	<b>29.8910</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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

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San Luis Ranch Project - 2018 Start - San Luis Obispo County APCD Air District, Winter

**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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**11.0 Vegetation**

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San Luis Ranch Project - 2018 Start - San Luis Obispo County APCD Air District, Summary Report

**San Luis Ranch Project - 2018 Start**  
**San Luis Obispo County APCD, Summary Report**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	25.00	1000sqft	0.63	25,000.00	0
Parking Lot	2.10	Acre	2.10	91,476.00	0
Parking Lot	1.23	Acre	1.23	53,361.00	0
Hotel	200.00	Room	3.50	290,400.00	0
Single Family Housing	196.00	Dwelling Unit	15.00	352,800.00	561
Regional Shopping Center	50.00	1000sqft	1.15	50,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	3.2	<b>Precipitation Freq (Days)</b>	44
<b>Climate Zone</b>	4			<b>Operational Year</b>	2020
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MW hr)</b>	641.35	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

**1.3 User Entered Comments**

Only CalEEMod defaults were used.

San Luis Ranch Project - 2018 Start - San Luis Obispo County APCD Air District, Summary Report

Project Characteristics -

Land Use - Land use values from buildout and phasing in Specific Plan Section 7.7. Includes portions of Phases 1, 2, 4, 5, and 6.

Construction Phase - No demolition in phases 1, 2, 4, 5 and 6. AC expected to overlap with half of building construction as painting would occur as buildings are finished.

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Grading - Total import proportionally distributed by phase acreage.

Vehicle Trips - Trip generation rate based on Omni-Means 2016 Traffic Impact Study.

Mobile Land Use Mitigation - Trip reductions from project's density, diversity, and access to alternative transportation accounted for in trip generation rates.

Energy Mitigation - Per Specific Plan, appliances will be energy efficient.

Water Mitigation -

Demolition -

Construction Off-road Equipment Mitigation -

Area Mitigation -

## **2.0 Peak Daily Emissions**

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### **Peak Daily Construction Emissions**

#### **Peak Daily Construction Emissions**







San Luis Ranch Project - 2019 Start - San Luis Obispo County APCD Air District, Annual

**San Luis Ranch Project - 2019 Start**  
**San Luis Obispo County APCD Air District, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	25.00	1000sqft	0.63	25,000.00	0
Parking Lot	1.90	Acre	1.90	82,764.00	0
Parking Lot	1.80	Acre	1.80	78,408.00	0
Parking Lot	0.70	Acre	0.70	30,492.00	0
City Park	5.80	Acre	5.80	252,648.00	0
Apartments Mid Rise	197.00	Dwelling Unit	7.20	197,000.00	563
Single Family Housing	18.00	Dwelling Unit	9.10	32,400.00	51
Regional Shopping Center	25.00	1000sqft	0.57	25,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	3.2	<b>Precipitation Freq (Days)</b>	44
<b>Climate Zone</b>	4			<b>Operational Year</b>	2022
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MW hr)</b>	641.35	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

**1.3 User Entered Comments & Non-Default Data**

San Luis Ranch Project - 2019 Start - San Luis Obispo County APCD Air District, Annual

Project Characteristics -

Land Use - Land use values from buildout and phasing in Specific Plan Section 7.7. Includes portions of Phases 1, 2, 3, 5, and 6; and Dalidio improvements.

Construction Phase - No demolition in phases 1, 2, 4, 5 and 6. AC expected to overlap with half of building construction as painting would occur as buildings are finished.

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Demolition - Building sf estimated using Google Earth

Grading - Total import proportionally distributed by phase acreage.

Vehicle Trips - Trip generation rate based on Omni-Means 2016 Traffic Impact Study.

Mobile Land Use Mitigation - Trip reductions from project's density, diversity, and access to alternative transportation accounted for in trip generation rates.

Energy Mitigation - Per Specific Plan, appliances will be energy efficient.

Water Mitigation - Total outdoor water use for these land uses = 20.7 Mgal, with park at 6.9 Mgal; Park using reclaimed = 33% of total.

## San Luis Ranch Project - 2019 Start - San Luis Obispo County APCD Air District, Annual

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	0
tblConstructionPhase	NumDays	35.00	220.00
tblConstructionPhase	PhaseEndDate	1/10/2022	3/8/2021
tblConstructionPhase	PhaseStartDate	3/9/2021	5/5/2020
tblGrading	MaterialImported	0.00	84,320.00
tblLandUse	LotAcreage	0.57	0.63
tblLandUse	LotAcreage	5.18	7.20
tblLandUse	LotAcreage	5.84	9.10
tblProjectCharacteristics	OperationalYear	2018	2022
tblVehicleTrips	ST_TR	6.39	5.29
tblVehicleTrips	ST_TR	22.75	0.00
tblVehicleTrips	ST_TR	2.46	2.68
tblVehicleTrips	ST_TR	49.97	10.38
tblVehicleTrips	ST_TR	9.91	5.29
tblVehicleTrips	SU_TR	5.86	4.61
tblVehicleTrips	SU_TR	16.74	0.00
tblVehicleTrips	SU_TR	1.05	1.14
tblVehicleTrips	SU_TR	25.24	5.24
tblVehicleTrips	SU_TR	8.62	4.61
tblVehicleTrips	WD_TR	6.65	5.09
tblVehicleTrips	WD_TR	1.89	0.00
tblVehicleTrips	WD_TR	11.03	12.00
tblVehicleTrips	WD_TR	42.70	8.87
tblVehicleTrips	WD_TR	9.52	5.09

## 2.0 Emissions Summary

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San Luis Ranch Project - 2019 Start - San Luis Obispo County APCD Air District, Annual

**2.1 Overall Construction**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2019	0.6377	6.9536	4.6124	0.0133	0.8109	0.2324	1.0433	0.2957	0.2170	0.5126	0.0000	1,234.1606	1,234.1606	0.1558	0.0000	1,238.0562
2020	3.8858	4.2840	4.5851	0.0111	0.5628	0.1670	0.7298	0.1510	0.1576	0.3086	0.0000	1,006.7069	1,006.7069	0.1053	0.0000	1,009.3392
2021	0.9615	0.4402	0.5411	1.1000e-003	0.0415	0.0202	0.0617	0.0111	0.0189	0.0300	0.0000	98.0959	98.0959	0.0168	0.0000	98.5146
<b>Maximum</b>	<b>3.8858</b>	<b>6.9536</b>	<b>4.6124</b>	<b>0.0133</b>	<b>0.8109</b>	<b>0.2324</b>	<b>1.0433</b>	<b>0.2957</b>	<b>0.2170</b>	<b>0.5126</b>	<b>0.0000</b>	<b>1,234.1606</b>	<b>1,234.1606</b>	<b>0.1558</b>	<b>0.0000</b>	<b>1,238.0562</b>

**Mitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2019	0.6377	6.9536	4.6124	0.0133	0.8109	0.2324	1.0433	0.2957	0.2170	0.5126	0.0000	1,234.1601	1,234.1601	0.1558	0.0000	1,238.0557
2020	3.8858	4.2840	4.5851	0.0111	0.5628	0.1670	0.7298	0.1510	0.1576	0.3086	0.0000	1,006.7065	1,006.7065	0.1053	0.0000	1,009.3389
2021	0.9615	0.4402	0.5411	1.1000e-003	0.0415	0.0202	0.0617	0.0111	0.0189	0.0300	0.0000	98.0959	98.0959	0.0168	0.0000	98.5145
<b>Maximum</b>	<b>3.8858</b>	<b>6.9536</b>	<b>4.6124</b>	<b>0.0133</b>	<b>0.8109</b>	<b>0.2324</b>	<b>1.0433</b>	<b>0.2957</b>	<b>0.2170</b>	<b>0.5126</b>	<b>0.0000</b>	<b>1,234.1601</b>	<b>1,234.1601</b>	<b>0.1558</b>	<b>0.0000</b>	<b>1,238.0557</b>

San Luis Ranch Project - 2019 Start - San Luis Obispo County APCD Air District, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-1-2019	3-31-2019	2.1295	2.1295
2	4-1-2019	6-30-2019	2.8516	2.8516
3	7-1-2019	9-30-2019	1.2726	1.2726
4	10-1-2019	12-31-2019	1.2858	1.2858
5	1-1-2020	3-31-2020	1.1543	1.1543
6	4-1-2020	6-30-2020	1.9721	1.9721
7	7-1-2020	9-30-2020	2.4938	2.4938
8	10-1-2020	12-31-2020	2.5077	2.5077
9	1-1-2021	3-31-2021	1.4344	1.4344
		Highest	2.8516	2.8516

San Luis Ranch Project - 2019 Start - San Luis Obispo County APCD Air District, Annual

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.6153	0.0338	2.9309	1.5000e-004		0.0162	0.0162		0.0162	0.0162	0.0000	4.7827	4.7827	4.6200e-003	0.0000	4.8982
Energy	0.0178	0.1534	0.0748	9.7000e-004		0.0123	0.0123		0.0123	0.0123	0.0000	735.3627	735.3627	0.0287	8.4600e-003	738.6004
Mobile	0.4526	1.9214	5.0764	0.0147	1.3472	0.0152	1.3623	0.3607	0.0142	0.3749	0.0000	1,346.4177	1,346.4177	0.0537	0.0000	1,347.7604
Waste						0.0000	0.0000		0.0000	0.0000	32.7891	0.0000	32.7891	1.9378	0.0000	81.2337
Water						0.0000	0.0000		0.0000	0.0000	6.4413	51.9165	58.3578	0.6639	0.0161	79.7559
<b>Total</b>	<b>2.0857</b>	<b>2.1085</b>	<b>8.0821</b>	<b>0.0158</b>	<b>1.3472</b>	<b>0.0437</b>	<b>1.3908</b>	<b>0.3607</b>	<b>0.0427</b>	<b>0.4034</b>	<b>39.2304</b>	<b>2,138.4796</b>	<b>2,177.7100</b>	<b>2.6887</b>	<b>0.0246</b>	<b>2,252.2485</b>

San Luis Ranch Project - 2019 Start - San Luis Obispo County APCD Air District, Annual

**2.2 Overall Operational**

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.6153	0.0338	2.9309	1.5000e-004		0.0162	0.0162		0.0162	0.0162	0.0000	4.7827	4.7827	4.6200e-003	0.0000	4.8982
Energy	0.0178	0.1534	0.0748	9.7000e-004		0.0123	0.0123		0.0123	0.0123	0.0000	728.3985	728.3985	0.0284	8.3900e-003	731.6089
Mobile	0.4526	1.9214	5.0764	0.0147	1.3472	0.0152	1.3623	0.3607	0.0142	0.3749	0.0000	1,346.4177	1,346.4177	0.0537	0.0000	1,347.7604
Waste						0.0000	0.0000		0.0000	0.0000	32.7891	0.0000	32.7891	1.9378	0.0000	81.2337
Water						0.0000	0.0000		0.0000	0.0000	6.4413	49.2822	55.7235	0.6638	0.0161	77.1113
<b>Total</b>	<b>2.0857</b>	<b>2.1085</b>	<b>8.0821</b>	<b>0.0158</b>	<b>1.3472</b>	<b>0.0437</b>	<b>1.3908</b>	<b>0.3607</b>	<b>0.0427</b>	<b>0.4034</b>	<b>39.2304</b>	<b>2,128.8811</b>	<b>2,168.1116</b>	<b>2.6883</b>	<b>0.0245</b>	<b>2,242.6125</b>

	ROG	NOx	CO	SO2	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	0.45	0.44	0.02	0.41	0.43

**3.0 Construction Detail**

**Construction Phase**

## San Luis Ranch Project - 2019 Start - San Luis Obispo County APCD Air District, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2019	2/11/2019	5	30	
2	Site Preparation	Site Preparation	2/12/2019	3/11/2019	5	20	
3	Grading	Grading	3/12/2019	5/13/2019	5	45	
4	Building Construction	Building Construction	5/14/2019	1/18/2021	5	440	
5	Paving	Paving	1/19/2021	3/8/2021	5	35	
6	Architectural Coating	Architectural Coating	5/5/2020	3/8/2021	5	220	

**Acres of Grading (Site Preparation Phase): 0**

**Acres of Grading (Grading Phase): 112.5**

**Acres of Paving: 4.4**

**Residential Indoor: 464,535; Residential Outdoor: 154,845; Non-Residential Indoor: 75,000; Non-Residential Outdoor: 25,000; Striped Parking Area: 11,500 (Architectural Coating – sqft)**

**OffRoad Equipment**



## San Luis Ranch Project - 2019 Start - San Luis Obispo County APCD Air District, Annual

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38

**Trips and VMT**

San Luis Ranch Project - 2019 Start - San Luis Obispo County APCD Air District, Annual

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	6	15.00	0.00	80.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	10,540.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	351.00	104.00	0.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	70.00	0.00	0.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					8.9300e-003	0.0000	8.9300e-003	1.3500e-003	0.0000	1.3500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0527	0.5367	0.3309	5.8000e-004		0.0269	0.0269		0.0250	0.0250	0.0000	51.9395	51.9395	0.0145	0.0000	52.3007
<b>Total</b>	<b>0.0527</b>	<b>0.5367</b>	<b>0.3309</b>	<b>5.8000e-004</b>	<b>8.9300e-003</b>	<b>0.0269</b>	<b>0.0359</b>	<b>1.3500e-003</b>	<b>0.0250</b>	<b>0.0264</b>	<b>0.0000</b>	<b>51.9395</b>	<b>51.9395</b>	<b>0.0145</b>	<b>0.0000</b>	<b>52.3007</b>

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**3.2 Demolition - 2019**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	4.1000e-004	0.0141	3.0500e-003	3.0000e-005	6.8000e-004	8.0000e-005	7.7000e-004	1.9000e-004	8.0000e-005	2.7000e-004	0.0000	3.1040	3.1040	1.8000e-004	0.0000	3.1084
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	1.0800e-003	1.0200e-003	8.7900e-003	2.0000e-005	2.1700e-003	1.0000e-005	2.1800e-003	5.8000e-004	1.0000e-005	5.9000e-004	0.0000	1.8700	1.8700	7.0000e-005	0.0000	1.8718
<b>Total</b>	<b>1.4900e-003</b>	<b>0.0151</b>	<b>0.0118</b>	<b>5.0000e-005</b>	<b>2.8500e-003</b>	<b>9.0000e-005</b>	<b>2.9500e-003</b>	<b>7.7000e-004</b>	<b>9.0000e-005</b>	<b>8.6000e-004</b>	<b>0.0000</b>	<b>4.9740</b>	<b>4.9740</b>	<b>2.5000e-004</b>	<b>0.0000</b>	<b>4.9802</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					8.9300e-003	0.0000	8.9300e-003	1.3500e-003	0.0000	1.3500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0527	0.5367	0.3309	5.8000e-004		0.0269	0.0269		0.0250	0.0250	0.0000	51.9394	51.9394	0.0145	0.0000	52.3007
<b>Total</b>	<b>0.0527</b>	<b>0.5367</b>	<b>0.3309</b>	<b>5.8000e-004</b>	<b>8.9300e-003</b>	<b>0.0269</b>	<b>0.0359</b>	<b>1.3500e-003</b>	<b>0.0250</b>	<b>0.0264</b>	<b>0.0000</b>	<b>51.9394</b>	<b>51.9394</b>	<b>0.0145</b>	<b>0.0000</b>	<b>52.3007</b>

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**3.2 Demolition - 2019**

**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	4.1000e-004	0.0141	3.0500e-003	3.0000e-005	6.8000e-004	8.0000e-005	7.7000e-004	1.9000e-004	8.0000e-005	2.7000e-004	0.0000	3.1040	3.1040	1.8000e-004	0.0000	3.1084
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	1.0800e-003	1.0200e-003	8.7900e-003	2.0000e-005	2.1700e-003	1.0000e-005	2.1800e-003	5.8000e-004	1.0000e-005	5.9000e-004	0.0000	1.8700	1.8700	7.0000e-005	0.0000	1.8718
<b>Total</b>	<b>1.4900e-003</b>	<b>0.0151</b>	<b>0.0118</b>	<b>5.0000e-005</b>	<b>2.8500e-003</b>	<b>9.0000e-005</b>	<b>2.9500e-003</b>	<b>7.7000e-004</b>	<b>9.0000e-005</b>	<b>8.6000e-004</b>	<b>0.0000</b>	<b>4.9740</b>	<b>4.9740</b>	<b>2.5000e-004</b>	<b>0.0000</b>	<b>4.9802</b>

**3.3 Site Preparation - 2019**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1807	0.0000	0.1807	0.0993	0.0000	0.0993	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0434	0.4557	0.2206	3.8000e-004		0.0239	0.0239		0.0220	0.0220	0.0000	34.1687	34.1687	0.0108	0.0000	34.4390
<b>Total</b>	<b>0.0434</b>	<b>0.4557</b>	<b>0.2206</b>	<b>3.8000e-004</b>	<b>0.1807</b>	<b>0.0239</b>	<b>0.2046</b>	<b>0.0993</b>	<b>0.0220</b>	<b>0.1213</b>	<b>0.0000</b>	<b>34.1687</b>	<b>34.1687</b>	<b>0.0108</b>	<b>0.0000</b>	<b>34.4390</b>

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**3.3 Site Preparation - 2019**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.6000e-004	8.1000e-004	7.0400e-003	2.0000e-005	1.7300e-003	1.0000e-005	1.7400e-003	4.6000e-004	1.0000e-005	4.7000e-004	0.0000	1.4960	1.4960	6.0000e-005	0.0000	1.4974
<b>Total</b>	<b>8.6000e-004</b>	<b>8.1000e-004</b>	<b>7.0400e-003</b>	<b>2.0000e-005</b>	<b>1.7300e-003</b>	<b>1.0000e-005</b>	<b>1.7400e-003</b>	<b>4.6000e-004</b>	<b>1.0000e-005</b>	<b>4.7000e-004</b>	<b>0.0000</b>	<b>1.4960</b>	<b>1.4960</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>1.4974</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1807	0.0000	0.1807	0.0993	0.0000	0.0993	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0434	0.4557	0.2206	3.8000e-004		0.0239	0.0239		0.0220	0.0220	0.0000	34.1687	34.1687	0.0108	0.0000	34.4389
<b>Total</b>	<b>0.0434</b>	<b>0.4557</b>	<b>0.2206</b>	<b>3.8000e-004</b>	<b>0.1807</b>	<b>0.0239</b>	<b>0.2046</b>	<b>0.0993</b>	<b>0.0220</b>	<b>0.1213</b>	<b>0.0000</b>	<b>34.1687</b>	<b>34.1687</b>	<b>0.0108</b>	<b>0.0000</b>	<b>34.4389</b>

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**3.3 Site Preparation - 2019**

**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	8.6000e-004	8.1000e-004	7.0400e-003	2.0000e-005	1.7300e-003	1.0000e-005	1.7400e-003	4.6000e-004	1.0000e-005	4.7000e-004	0.0000	1.4960	1.4960	6.0000e-005	0.0000	1.4974
<b>Total</b>	<b>8.6000e-004</b>	<b>8.1000e-004</b>	<b>7.0400e-003</b>	<b>2.0000e-005</b>	<b>1.7300e-003</b>	<b>1.0000e-005</b>	<b>1.7400e-003</b>	<b>4.6000e-004</b>	<b>1.0000e-005</b>	<b>4.7000e-004</b>	<b>0.0000</b>	<b>1.4960</b>	<b>1.4960</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>1.4974</b>

**3.4 Grading - 2019**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.2029	0.0000	0.2029	0.0821	0.0000	0.0821	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1066	1.2267	0.7510	1.4000e-003		0.0536	0.0536		0.0493	0.0493	0.0000	125.3280	125.3280	0.0397	0.0000	126.3193
<b>Total</b>	<b>0.1066</b>	<b>1.2267</b>	<b>0.7510</b>	<b>1.4000e-003</b>	<b>0.2029</b>	<b>0.0536</b>	<b>0.2565</b>	<b>0.0821</b>	<b>0.0493</b>	<b>0.1314</b>	<b>0.0000</b>	<b>125.3280</b>	<b>125.3280</b>	<b>0.0397</b>	<b>0.0000</b>	<b>126.3193</b>

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**3.4 Grading - 2019**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0542	1.8510	0.4013	4.1900e-003	0.0898	0.0110	0.1008	0.0247	0.0105	0.0352	0.0000	408.9485	408.9485	0.0232	0.0000	409.5292
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	2.1600e-003	2.0300e-003	0.0176	4.0000e-005	4.3300e-003	3.0000e-005	4.3600e-003	1.1500e-003	3.0000e-005	1.1800e-003	0.0000	3.7401	3.7401	1.4000e-004	0.0000	3.7436
<b>Total</b>	<b>0.0564</b>	<b>1.8530</b>	<b>0.4189</b>	<b>4.2300e-003</b>	<b>0.0942</b>	<b>0.0110</b>	<b>0.1052</b>	<b>0.0258</b>	<b>0.0106</b>	<b>0.0364</b>	<b>0.0000</b>	<b>412.6885</b>	<b>412.6885</b>	<b>0.0234</b>	<b>0.0000</b>	<b>413.2727</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.2029	0.0000	0.2029	0.0821	0.0000	0.0821	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1066	1.2267	0.7510	1.4000e-003		0.0536	0.0536		0.0493	0.0493	0.0000	125.3278	125.3278	0.0397	0.0000	126.3191
<b>Total</b>	<b>0.1066</b>	<b>1.2267</b>	<b>0.7510</b>	<b>1.4000e-003</b>	<b>0.2029</b>	<b>0.0536</b>	<b>0.2565</b>	<b>0.0821</b>	<b>0.0493</b>	<b>0.1314</b>	<b>0.0000</b>	<b>125.3278</b>	<b>125.3278</b>	<b>0.0397</b>	<b>0.0000</b>	<b>126.3191</b>

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**3.4 Grading - 2019**

**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	0.0542	1.8510	0.4013	4.1900e-003	0.0898	0.0110	0.1008	0.0247	0.0105	0.0352	0.0000	408.9485	408.9485	0.0232	0.0000	409.5292
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	2.1600e-003	2.0300e-003	0.0176	4.0000e-005	4.3300e-003	3.0000e-005	4.3600e-003	1.1500e-003	3.0000e-005	1.1800e-003	0.0000	3.7401	3.7401	1.4000e-004	0.0000	3.7436
<b>Total</b>	<b>0.0564</b>	<b>1.8530</b>	<b>0.4189</b>	<b>4.2300e-003</b>	<b>0.0942</b>	<b>0.0110</b>	<b>0.1052</b>	<b>0.0258</b>	<b>0.0106</b>	<b>0.0364</b>	<b>0.0000</b>	<b>412.6885</b>	<b>412.6885</b>	<b>0.0234</b>	<b>0.0000</b>	<b>413.2727</b>

**3.5 Building Construction - 2019**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1960	1.7495	1.4246	2.2300e-003		0.1071	0.1071		0.1007	0.1007	0.0000	195.1365	195.1365	0.0475	0.0000	196.3249
<b>Total</b>	<b>0.1960</b>	<b>1.7495</b>	<b>1.4246</b>	<b>2.2300e-003</b>		<b>0.1071</b>	<b>0.1071</b>		<b>0.1007</b>	<b>0.1007</b>	<b>0.0000</b>	<b>195.1365</b>	<b>195.1365</b>	<b>0.0475</b>	<b>0.0000</b>	<b>196.3249</b>



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**3.5 Building Construction - 2019**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0404	0.9846	0.3089	1.7300e-003	0.0392	7.8800e-003	0.0471	0.0113	7.5400e-003	0.0189	0.0000	166.2974	166.2974	0.0107	0.0000	166.5645
Worker	0.1399	0.1315	1.1387	2.6800e-003	0.2805	1.9000e-003	0.2824	0.0745	1.7600e-003	0.0763	0.0000	242.1319	242.1319	9.0300e-003	0.0000	242.3576
<b>Total</b>	<b>0.1803</b>	<b>1.1160</b>	<b>1.4475</b>	<b>4.4100e-003</b>	<b>0.3197</b>	<b>9.7800e-003</b>	<b>0.3295</b>	<b>0.0859</b>	<b>9.3000e-003</b>	<b>0.0952</b>	<b>0.0000</b>	<b>408.4294</b>	<b>408.4294</b>	<b>0.0197</b>	<b>0.0000</b>	<b>408.9220</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1960	1.7495	1.4246	2.2300e-003		0.1071	0.1071		0.1007	0.1007	0.0000	195.1363	195.1363	0.0475	0.0000	196.3247
<b>Total</b>	<b>0.1960</b>	<b>1.7495</b>	<b>1.4246</b>	<b>2.2300e-003</b>		<b>0.1071</b>	<b>0.1071</b>		<b>0.1007</b>	<b>0.1007</b>	<b>0.0000</b>	<b>195.1363</b>	<b>195.1363</b>	<b>0.0475</b>	<b>0.0000</b>	<b>196.3247</b>

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**3.5 Building Construction - 2019**

**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	0.0404	0.9846	0.3089	1.7300e-003	0.0392	7.8800e-003	0.0471	0.0113	7.5400e-003	0.0189	0.0000	166.2974	166.2974	0.0107	0.0000	166.5645
Worker	0.1399	0.1315	1.1387	2.6800e-003	0.2805	1.9000e-003	0.2824	0.0745	1.7600e-003	0.0763	0.0000	242.1319	242.1319	9.0300e-003	0.0000	242.3576
<b>Total</b>	<b>0.1803</b>	<b>1.1160</b>	<b>1.4475</b>	<b>4.4100e-003</b>	<b>0.3197</b>	<b>9.7800e-003</b>	<b>0.3295</b>	<b>0.0859</b>	<b>9.3000e-003</b>	<b>0.0952</b>	<b>0.0000</b>	<b>408.4294</b>	<b>408.4294</b>	<b>0.0197</b>	<b>0.0000</b>	<b>408.9220</b>

**3.5 Building Construction - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2777	2.5134	2.2072	3.5300e-003		0.1463	0.1463		0.1376	0.1376	0.0000	303.4091	303.4091	0.0740	0.0000	305.2596
<b>Total</b>	<b>0.2777</b>	<b>2.5134</b>	<b>2.2072</b>	<b>3.5300e-003</b>		<b>0.1463</b>	<b>0.1463</b>		<b>0.1376</b>	<b>0.1376</b>	<b>0.0000</b>	<b>303.4091</b>	<b>303.4091</b>	<b>0.0740</b>	<b>0.0000</b>	<b>305.2596</b>

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**3.5 Building Construction - 2020**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0507	1.4182	0.4297	2.7200e-003	0.0619	7.7300e-003	0.0696	0.0179	7.4000e-003	0.0253	0.0000	262.1100	262.1100	0.0158	0.0000	262.5042
Worker	0.2011	0.1827	1.5816	4.1000e-003	0.4427	2.9100e-003	0.4456	0.1176	2.6800e-003	0.1203	0.0000	370.3347	370.3347	0.0122	0.0000	370.6395
<b>Total</b>	<b>0.2518</b>	<b>1.6009</b>	<b>2.0112</b>	<b>6.8200e-003</b>	<b>0.5046</b>	<b>0.0106</b>	<b>0.5152</b>	<b>0.1355</b>	<b>0.0101</b>	<b>0.1456</b>	<b>0.0000</b>	<b>632.4447</b>	<b>632.4447</b>	<b>0.0280</b>	<b>0.0000</b>	<b>633.1437</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2777	2.5134	2.2072	3.5300e-003		0.1463	0.1463		0.1376	0.1376	0.0000	303.4087	303.4087	0.0740	0.0000	305.2592
<b>Total</b>	<b>0.2777</b>	<b>2.5134</b>	<b>2.2072</b>	<b>3.5300e-003</b>		<b>0.1463</b>	<b>0.1463</b>		<b>0.1376</b>	<b>0.1376</b>	<b>0.0000</b>	<b>303.4087</b>	<b>303.4087</b>	<b>0.0740</b>	<b>0.0000</b>	<b>305.2592</b>

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**3.5 Building Construction - 2020**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0507	1.4182	0.4297	2.7200e-003	0.0619	7.7300e-003	0.0696	0.0179	7.4000e-003	0.0253	0.0000	262.1100	262.1100	0.0158	0.0000	262.5042
Worker	0.2011	0.1827	1.5816	4.1000e-003	0.4427	2.9100e-003	0.4456	0.1176	2.6800e-003	0.1203	0.0000	370.3347	370.3347	0.0122	0.0000	370.6395
<b>Total</b>	<b>0.2518</b>	<b>1.6009</b>	<b>2.0112</b>	<b>6.8200e-003</b>	<b>0.5046</b>	<b>0.0106</b>	<b>0.5152</b>	<b>0.1355</b>	<b>0.0101</b>	<b>0.1456</b>	<b>0.0000</b>	<b>632.4447</b>	<b>632.4447</b>	<b>0.0280</b>	<b>0.0000</b>	<b>633.1437</b>

**3.5 Building Construction - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0114	0.1046	0.0995	1.6000e-004		5.7500e-003	5.7500e-003		5.4100e-003	5.4100e-003	0.0000	13.8982	13.8982	3.3500e-003	0.0000	13.9821
<b>Total</b>	<b>0.0114</b>	<b>0.1046</b>	<b>0.0995</b>	<b>1.6000e-004</b>		<b>5.7500e-003</b>	<b>5.7500e-003</b>		<b>5.4100e-003</b>	<b>5.4100e-003</b>	<b>0.0000</b>	<b>13.8982</b>	<b>13.8982</b>	<b>3.3500e-003</b>	<b>0.0000</b>	<b>13.9821</b>

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**3.5 Building Construction - 2021**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.9000e-003	0.0594	0.0174	1.2000e-004	2.8300e-003	1.7000e-004	3.0000e-003	8.2000e-004	1.6000e-004	9.8000e-004	0.0000	11.9331	11.9331	7.0000e-004	0.0000	11.9507
Worker	8.5800e-003	7.4800e-003	0.0657	1.8000e-004	0.0203	1.3000e-004	0.0204	5.3900e-003	1.2000e-004	5.5100e-003	0.0000	16.3838	16.3838	5.0000e-004	0.0000	16.3962
<b>Total</b>	<b>0.0105</b>	<b>0.0669</b>	<b>0.0831</b>	<b>3.0000e-004</b>	<b>0.0231</b>	<b>3.0000e-004</b>	<b>0.0234</b>	<b>6.2100e-003</b>	<b>2.8000e-004</b>	<b>6.4900e-003</b>	<b>0.0000</b>	<b>28.3169</b>	<b>28.3169</b>	<b>1.2000e-003</b>	<b>0.0000</b>	<b>28.3469</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0114	0.1046	0.0995	1.6000e-004		5.7500e-003	5.7500e-003		5.4100e-003	5.4100e-003	0.0000	13.8982	13.8982	3.3500e-003	0.0000	13.9821
<b>Total</b>	<b>0.0114</b>	<b>0.1046</b>	<b>0.0995</b>	<b>1.6000e-004</b>		<b>5.7500e-003</b>	<b>5.7500e-003</b>		<b>5.4100e-003</b>	<b>5.4100e-003</b>	<b>0.0000</b>	<b>13.8982</b>	<b>13.8982</b>	<b>3.3500e-003</b>	<b>0.0000</b>	<b>13.9821</b>

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**3.5 Building Construction - 2021**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.9000e-003	0.0594	0.0174	1.2000e-004	2.8300e-003	1.7000e-004	3.0000e-003	8.2000e-004	1.6000e-004	9.8000e-004	0.0000	11.9331	11.9331	7.0000e-004	0.0000	11.9507
Worker	8.5800e-003	7.4800e-003	0.0657	1.8000e-004	0.0203	1.3000e-004	0.0204	5.3900e-003	1.2000e-004	5.5100e-003	0.0000	16.3838	16.3838	5.0000e-004	0.0000	16.3962
<b>Total</b>	<b>0.0105</b>	<b>0.0669</b>	<b>0.0831</b>	<b>3.0000e-004</b>	<b>0.0231</b>	<b>3.0000e-004</b>	<b>0.0234</b>	<b>6.2100e-003</b>	<b>2.8000e-004</b>	<b>6.4900e-003</b>	<b>0.0000</b>	<b>28.3169</b>	<b>28.3169</b>	<b>1.2000e-003</b>	<b>0.0000</b>	<b>28.3469</b>

**3.6 Paving - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0220	0.2261	0.2564	4.0000e-004		0.0119	0.0119		0.0109	0.0109	0.0000	35.0411	35.0411	0.0113	0.0000	35.3244
Paving	5.7600e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0277</b>	<b>0.2261</b>	<b>0.2564</b>	<b>4.0000e-004</b>		<b>0.0119</b>	<b>0.0119</b>		<b>0.0109</b>	<b>0.0109</b>	<b>0.0000</b>	<b>35.0411</b>	<b>35.0411</b>	<b>0.0113</b>	<b>0.0000</b>	<b>35.3244</b>

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**3.6 Paving - 2021**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0700e-003	9.3000e-004	8.1800e-003	2.0000e-005	2.5300e-003	2.0000e-005	2.5400e-003	6.7000e-004	1.0000e-005	6.9000e-004	0.0000	2.0421	2.0421	6.0000e-005	0.0000	2.0437
<b>Total</b>	<b>1.0700e-003</b>	<b>9.3000e-004</b>	<b>8.1800e-003</b>	<b>2.0000e-005</b>	<b>2.5300e-003</b>	<b>2.0000e-005</b>	<b>2.5400e-003</b>	<b>6.7000e-004</b>	<b>1.0000e-005</b>	<b>6.9000e-004</b>	<b>0.0000</b>	<b>2.0421</b>	<b>2.0421</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>2.0437</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0220	0.2261	0.2564	4.0000e-004		0.0119	0.0119		0.0109	0.0109	0.0000	35.0411	35.0411	0.0113	0.0000	35.3244
Paving	5.7600e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0277</b>	<b>0.2261</b>	<b>0.2564</b>	<b>4.0000e-004</b>		<b>0.0119</b>	<b>0.0119</b>		<b>0.0109</b>	<b>0.0109</b>	<b>0.0000</b>	<b>35.0411</b>	<b>35.0411</b>	<b>0.0113</b>	<b>0.0000</b>	<b>35.3244</b>

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**3.6 Paving - 2021**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0700e-003	9.3000e-004	8.1800e-003	2.0000e-005	2.5300e-003	2.0000e-005	2.5400e-003	6.7000e-004	1.0000e-005	6.9000e-004	0.0000	2.0421	2.0421	6.0000e-005	0.0000	2.0437
<b>Total</b>	<b>1.0700e-003</b>	<b>9.3000e-004</b>	<b>8.1800e-003</b>	<b>2.0000e-005</b>	<b>2.5300e-003</b>	<b>2.0000e-005</b>	<b>2.5400e-003</b>	<b>6.7000e-004</b>	<b>1.0000e-005</b>	<b>6.9000e-004</b>	<b>0.0000</b>	<b>2.0421</b>	<b>2.0421</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>2.0437</b>

**3.7 Architectural Coating - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	3.3089					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0210	0.1457	0.1584	2.6000e-004		9.6000e-003	9.6000e-003		9.6000e-003	9.6000e-003	0.0000	22.0856	22.0856	1.7100e-003	0.0000	22.1284
<b>Total</b>	<b>3.3299</b>	<b>0.1457</b>	<b>0.1584</b>	<b>2.6000e-004</b>		<b>9.6000e-003</b>	<b>9.6000e-003</b>		<b>9.6000e-003</b>	<b>9.6000e-003</b>	<b>0.0000</b>	<b>22.0856</b>	<b>22.0856</b>	<b>1.7100e-003</b>	<b>0.0000</b>	<b>22.1284</b>



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**3.7 Architectural Coating - 2020**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	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	0.0265	0.0241	0.2083	5.4000e-004	0.0583	3.8000e-004	0.0587	0.0155	3.5000e-004	0.0158	0.0000	48.7675	48.7675	1.6100e-003	0.0000	48.8076
<b>Total</b>	<b>0.0265</b>	<b>0.0241</b>	<b>0.2083</b>	<b>5.4000e-004</b>	<b>0.0583</b>	<b>3.8000e-004</b>	<b>0.0587</b>	<b>0.0155</b>	<b>3.5000e-004</b>	<b>0.0158</b>	<b>0.0000</b>	<b>48.7675</b>	<b>48.7675</b>	<b>1.6100e-003</b>	<b>0.0000</b>	<b>48.8076</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	3.3089					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0210	0.1457	0.1584	2.6000e-004		9.6000e-003	9.6000e-003		9.6000e-003	9.6000e-003	0.0000	22.0856	22.0856	1.7100e-003	0.0000	22.1284
<b>Total</b>	<b>3.3299</b>	<b>0.1457</b>	<b>0.1584</b>	<b>2.6000e-004</b>		<b>9.6000e-003</b>	<b>9.6000e-003</b>		<b>9.6000e-003</b>	<b>9.6000e-003</b>	<b>0.0000</b>	<b>22.0856</b>	<b>22.0856</b>	<b>1.7100e-003</b>	<b>0.0000</b>	<b>22.1284</b>

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**3.7 Architectural Coating - 2020**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	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	0.0265	0.0241	0.2083	5.4000e-004	0.0583	3.8000e-004	0.0587	0.0155	3.5000e-004	0.0158	0.0000	48.7675	48.7675	1.6100e-003	0.0000	48.8076
<b>Total</b>	<b>0.0265</b>	<b>0.0241</b>	<b>0.2083</b>	<b>5.4000e-004</b>	<b>0.0583</b>	<b>3.8000e-004</b>	<b>0.0587</b>	<b>0.0155</b>	<b>3.5000e-004</b>	<b>0.0158</b>	<b>0.0000</b>	<b>48.7675</b>	<b>48.7675</b>	<b>1.6100e-003</b>	<b>0.0000</b>	<b>48.8076</b>

**3.7 Architectural Coating - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.8990					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.1400e-003	0.0359	0.0427	7.0000e-005		2.2100e-003	2.2100e-003		2.2100e-003	2.2100e-003	0.0000	6.0002	6.0002	4.1000e-004	0.0000	6.0104
<b>Total</b>	<b>0.9041</b>	<b>0.0359</b>	<b>0.0427</b>	<b>7.0000e-005</b>		<b>2.2100e-003</b>	<b>2.2100e-003</b>		<b>2.2100e-003</b>	<b>2.2100e-003</b>	<b>0.0000</b>	<b>6.0002</b>	<b>6.0002</b>	<b>4.1000e-004</b>	<b>0.0000</b>	<b>6.0104</b>

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**3.7 Architectural Coating - 2021**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.7000e-003	5.8400e-003	0.0513	1.4000e-004	0.0158	1.0000e-004	0.0159	4.2100e-003	9.0000e-005	4.3000e-003	0.0000	12.7974	12.7974	3.9000e-004	0.0000	12.8071
<b>Total</b>	<b>6.7000e-003</b>	<b>5.8400e-003</b>	<b>0.0513</b>	<b>1.4000e-004</b>	<b>0.0158</b>	<b>1.0000e-004</b>	<b>0.0159</b>	<b>4.2100e-003</b>	<b>9.0000e-005</b>	<b>4.3000e-003</b>	<b>0.0000</b>	<b>12.7974</b>	<b>12.7974</b>	<b>3.9000e-004</b>	<b>0.0000</b>	<b>12.8071</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.8990					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.1400e-003	0.0359	0.0427	7.0000e-005		2.2100e-003	2.2100e-003		2.2100e-003	2.2100e-003	0.0000	6.0001	6.0001	4.1000e-004	0.0000	6.0104
<b>Total</b>	<b>0.9041</b>	<b>0.0359</b>	<b>0.0427</b>	<b>7.0000e-005</b>		<b>2.2100e-003</b>	<b>2.2100e-003</b>		<b>2.2100e-003</b>	<b>2.2100e-003</b>	<b>0.0000</b>	<b>6.0001</b>	<b>6.0001</b>	<b>4.1000e-004</b>	<b>0.0000</b>	<b>6.0104</b>

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**3.7 Architectural Coating - 2021**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.7000e-003	5.8400e-003	0.0513	1.4000e-004	0.0158	1.0000e-004	0.0159	4.2100e-003	9.0000e-005	4.3000e-003	0.0000	12.7974	12.7974	3.9000e-004	0.0000	12.8071
<b>Total</b>	<b>6.7000e-003</b>	<b>5.8400e-003</b>	<b>0.0513</b>	<b>1.4000e-004</b>	<b>0.0158</b>	<b>1.0000e-004</b>	<b>0.0159</b>	<b>4.2100e-003</b>	<b>9.0000e-005</b>	<b>4.3000e-003</b>	<b>0.0000</b>	<b>12.7974</b>	<b>12.7974</b>	<b>3.9000e-004</b>	<b>0.0000</b>	<b>12.8071</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.4526	1.9214	5.0764	0.0147	1.3472	0.0152	1.3623	0.3607	0.0142	0.3749	0.0000	1,346.4177	1,346.4177	0.0537	0.0000	1,347.7604
Unmitigated	0.4526	1.9214	5.0764	0.0147	1.3472	0.0152	1.3623	0.3607	0.0142	0.3749	0.0000	1,346.4177	1,346.4177	0.0537	0.0000	1,347.7604

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	1,002.73	1,042.13	908.17	2,528,468	2,528,468
City Park	0.00	0.00	0.00		
General Office Building	300.00	67.00	28.50	518,513	518,513
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Regional Shopping Center	221.75	259.50	131.00	309,253	309,253
Single Family Housing	91.62	95.22	82.98	231,028	231,028
<b>Total</b>	<b>1,616.10</b>	<b>1,463.85</b>	<b>1,150.65</b>	<b>3,587,261</b>	<b>3,587,261</b>

4.3 Trip Type Information

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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
Apartments Mid Rise	13.00	5.00	5.00	35.80	21.00	43.20	86	11	3
City Park	13.00	5.00	5.00	33.00	48.00	19.00	66	28	6
General Office Building	13.00	5.00	5.00	33.00	48.00	19.00	77	19	4
Parking Lot	13.00	5.00	5.00	0.00	0.00	0.00	0	0	0
Parking Lot	13.00	5.00	5.00	0.00	0.00	0.00	0	0	0
Parking Lot	13.00	5.00	5.00	0.00	0.00	0.00	0	0	0
Regional Shopping Center	13.00	5.00	5.00	16.30	64.70	19.00	54	35	11
Single Family Housing	13.00	5.00	5.00	35.80	21.00	43.20	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	0.575581	0.029595	0.198288	0.120539	0.026172	0.006482	0.012911	0.019591	0.002354	0.001214	0.005068	0.000784	0.001422
Parking Lot	0.575581	0.029595	0.198288	0.120539	0.026172	0.006482	0.012911	0.019591	0.002354	0.001214	0.005068	0.000784	0.001422
Parking Lot	0.575581	0.029595	0.198288	0.120539	0.026172	0.006482	0.012911	0.019591	0.002354	0.001214	0.005068	0.000784	0.001422
Parking Lot	0.575581	0.029595	0.198288	0.120539	0.026172	0.006482	0.012911	0.019591	0.002354	0.001214	0.005068	0.000784	0.001422
City Park	0.575581	0.029595	0.198288	0.120539	0.026172	0.006482	0.012911	0.019591	0.002354	0.001214	0.005068	0.000784	0.001422
Apartments Mid Rise	0.575581	0.029595	0.198288	0.120539	0.026172	0.006482	0.012911	0.019591	0.002354	0.001214	0.005068	0.000784	0.001422
Single Family Housing	0.575581	0.029595	0.198288	0.120539	0.026172	0.006482	0.012911	0.019591	0.002354	0.001214	0.005068	0.000784	0.001422
Regional Shopping Center	0.575581	0.029595	0.198288	0.120539	0.026172	0.006482	0.012911	0.019591	0.002354	0.001214	0.005068	0.000784	0.001422

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Install Energy Efficient Appliances

San Luis Ranch Project - 2019 Start - San Luis Obispo County APCD Air District, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated							0.0000	0.0000		0.0000	0.0000	552.3779	552.3779	0.0250	5.1700e-003	554.5422
Electricity Unmitigated							0.0000	0.0000		0.0000	0.0000	559.3420	559.3420	0.0253	5.2300e-003	561.5337
NaturalGas Mitigated	0.0178	0.1534	0.0748	9.7000e-004			0.0123	0.0123		0.0123	0.0000	176.0207	176.0207	3.3700e-003	3.2300e-003	177.0667
NaturalGas Unmitigated	0.0178	0.1534	0.0748	9.7000e-004			0.0123	0.0123		0.0123	0.0000	176.0207	176.0207	3.3700e-003	3.2300e-003	177.0667

San Luis Ranch Project - 2019 Start - San Luis Obispo County APCD Air District, Annual

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	2.18061e+006	0.0118	0.1005	0.0428	6.4000e-004		8.1200e-003	8.1200e-003		8.1200e-003	8.1200e-003	0.0000	116.3655	116.3655	2.2300e-003	2.1300e-003	117.0570
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
General Office Building	411250	2.2200e-003	0.0202	0.0169	1.2000e-004		1.5300e-003	1.5300e-003		1.5300e-003	1.5300e-003	0.0000	21.9459	21.9459	4.2000e-004	4.0000e-004	22.0763
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	59500	3.2000e-004	2.9200e-003	2.4500e-003	2.0000e-005		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004	0.0000	3.1752	3.1752	6.0000e-005	6.0000e-005	3.1940
Single Family Housing	647146	3.4900e-003	0.0298	0.0127	1.9000e-004		2.4100e-003	2.4100e-003		2.4100e-003	2.4100e-003	0.0000	34.5342	34.5342	6.6000e-004	6.3000e-004	34.7394
<b>Total</b>		<b>0.0178</b>	<b>0.1534</b>	<b>0.0748</b>	<b>9.7000e-004</b>		<b>0.0123</b>	<b>0.0123</b>		<b>0.0123</b>	<b>0.0123</b>	<b>0.0000</b>	<b>176.0207</b>	<b>176.0207</b>	<b>3.3700e-003</b>	<b>3.2200e-003</b>	<b>177.0667</b>



San Luis Ranch Project - 2019 Start - San Luis Obispo County APCD Air District, Annual

**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	tons/yr										MT/yr					
Apartments Mid Rise	2.18061e+006	0.0118	0.1005	0.0428	6.4000e-004		8.1200e-003	8.1200e-003		8.1200e-003	8.1200e-003	0.0000	116.3655	116.3655	2.2300e-003	2.1300e-003	117.0570
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
General Office Building	411250	2.2200e-003	0.0202	0.0169	1.2000e-004		1.5300e-003	1.5300e-003		1.5300e-003	1.5300e-003	0.0000	21.9459	21.9459	4.2000e-004	4.0000e-004	22.0763
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	59500	3.2000e-004	2.9200e-003	2.4500e-003	2.0000e-005		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004	0.0000	3.1752	3.1752	6.0000e-005	6.0000e-005	3.1940
Single Family Housing	647146	3.4900e-003	0.0298	0.0127	1.9000e-004		2.4100e-003	2.4100e-003		2.4100e-003	2.4100e-003	0.0000	34.5342	34.5342	6.6000e-004	6.3000e-004	34.7394
<b>Total</b>		<b>0.0178</b>	<b>0.1534</b>	<b>0.0748</b>	<b>9.7000e-004</b>		<b>0.0123</b>	<b>0.0123</b>		<b>0.0123</b>	<b>0.0123</b>	<b>0.0000</b>	<b>176.0207</b>	<b>176.0207</b>	<b>3.3700e-003</b>	<b>3.2200e-003</b>	<b>177.0667</b>

## San Luis Ranch Project - 2019 Start - San Luis Obispo County APCD Air District, Annual

**5.3 Energy by Land Use - Electricity****Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	868961	252.7908	0.0114	2.3600e-003	253.7813
City Park	0	0.0000	0.0000	0.0000	0.0000
General Office Building	455500	132.5102	5.9900e-003	1.2400e-003	133.0294
Parking Lot	26833	7.8060	3.5000e-004	7.0000e-005	7.8366
Parking Lot	68999	20.0726	9.1000e-004	1.9000e-004	20.1513
Parking Lot	72832.3	21.1878	9.6000e-004	2.0000e-004	21.2708
Regional Shopping Center	273750	79.6370	3.6000e-003	7.5000e-004	79.9491
Single Family Housing	155847	45.3377	2.0500e-003	4.2000e-004	45.5153
<b>Total</b>		<b>559.3420</b>	<b>0.0253</b>	<b>5.2300e-003</b>	<b>561.5337</b>

San Luis Ranch Project - 2019 Start - San Luis Obispo County APCD Air District, Annual

**5.3 Energy by Land Use - Electricity**

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	848048	246.7069	0.0112	2.3100e-003	247.6736
City Park	0	0.0000	0.0000	0.0000	0.0000
General Office Building	455500	132.5102	5.9900e-003	1.2400e-003	133.0294
Parking Lot	26833	7.8060	3.5000e-004	7.0000e-005	7.8366
Parking Lot	68999	20.0726	9.1000e-004	1.9000e-004	20.1513
Parking Lot	72832.3	21.1878	9.6000e-004	2.0000e-004	21.2708
Regional Shopping Center	273750	79.6370	3.6000e-003	7.5000e-004	79.9491
Single Family Housing	152821	44.4574	2.0100e-003	4.2000e-004	44.6316
<b>Total</b>		<b>552.3779</b>	<b>0.0250</b>	<b>5.1800e-003</b>	<b>554.5422</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

San Luis Ranch Project - 2019 Start - San Luis Obispo County APCD Air District, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1.6153	0.0338	2.9309	1.5000e-004		0.0162	0.0162		0.0162	0.0162	0.0000	4.7827	4.7827	4.6200e-003	0.0000	4.8982
Unmitigated	1.6153	0.0338	2.9309	1.5000e-004		0.0162	0.0162		0.0162	0.0162	0.0000	4.7827	4.7827	4.6200e-003	0.0000	4.8982

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.4208					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.1060					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0886	0.0338	2.9309	1.5000e-004		0.0162	0.0162		0.0162	0.0162	0.0000	4.7827	4.7827	4.6200e-003	0.0000	4.8982
<b>Total</b>	<b>1.6153</b>	<b>0.0338</b>	<b>2.9309</b>	<b>1.5000e-004</b>		<b>0.0162</b>	<b>0.0162</b>		<b>0.0162</b>	<b>0.0162</b>	<b>0.0000</b>	<b>4.7827</b>	<b>4.7827</b>	<b>4.6200e-003</b>	<b>0.0000</b>	<b>4.8982</b>

San Luis Ranch Project - 2019 Start - San Luis Obispo County APCD Air District, Annual

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.4208					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.1060					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0886	0.0338	2.9309	1.5000e-004		0.0162	0.0162		0.0162	0.0162	0.0000	4.7827	4.7827	4.6200e-003	0.0000	4.8982
<b>Total</b>	<b>1.6153</b>	<b>0.0338</b>	<b>2.9309</b>	<b>1.5000e-004</b>		<b>0.0162</b>	<b>0.0162</b>		<b>0.0162</b>	<b>0.0162</b>	<b>0.0000</b>	<b>4.7827</b>	<b>4.7827</b>	<b>4.6200e-003</b>	<b>0.0000</b>	<b>4.8982</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

Use Reclaimed Water

San Luis Ranch Project - 2019 Start - San Luis Obispo County APCD Air District, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	55.7235	0.6638	0.0161	77.1113
Unmitigated	58.3578	0.6639	0.0161	79.7559

San Luis Ranch Project - 2019 Start - San Luis Obispo County APCD Air District, Annual

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	12.8353 / 8.09185	32.5155	0.4195	0.0101	46.0259
City Park	0 / 6.91059	7.0363	3.2000e-004	7.0000e-005	7.0639
General Office Building	4.44334 / 2.72334	11.1769	0.1452	3.5100e-003	15.8536
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	1.85181 / 1.13498	4.6581	0.0605	1.4600e-003	6.6072
Single Family Housing	1.17277 / 0.739357	2.9710	0.0383	9.3000e-004	4.2054
<b>Total</b>		<b>58.3578</b>	<b>0.6639</b>	<b>0.0161</b>	<b>79.7559</b>

San Luis Ranch Project - 2019 Start - San Luis Obispo County APCD Air District, Annual

**7.2 Water by Land Use**

**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	12.8353 / 7.02372	31.4279	0.4195	0.0101	44.9340
City Park	0 / 5.99839	6.1075	2.8000e-004	6.0000e-005	6.1314
General Office Building	4.44334 / 2.36386	10.8109	0.1452	3.5100e-003	15.4862
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	1.85181 / 0.985165	4.5056	0.0605	1.4600e-003	6.4540
Single Family Housing	1.17277 / 0.641761	2.8716	0.0383	9.3000e-004	4.1057
<b>Total</b>		<b>55.7235</b>	<b>0.6638</b>	<b>0.0161</b>	<b>77.1113</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**



San Luis Ranch Project - 2019 Start - San Luis Obispo County APCD Air District, Annual

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	32.7891	1.9378	0.0000	81.2337
Unmitigated	32.7891	1.9378	0.0000	81.2337

San Luis Ranch Project - 2019 Start - San Luis Obispo County APCD Air District, Annual

**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	90.62	18.3950	1.0871	0.0000	45.5729
City Park	0.5	0.1015	6.0000e-003	0.0000	0.2515
General Office Building	23.25	4.7195	0.2789	0.0000	11.6925
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	26.25	5.3285	0.3149	0.0000	13.2012
Single Family Housing	20.91	4.2445	0.2509	0.0000	10.5157
<b>Total</b>		<b>32.7891</b>	<b>1.9378</b>	<b>0.0000</b>	<b>81.2337</b>

San Luis Ranch Project - 2019 Start - San Luis Obispo County APCD Air District, Annual

**8.2 Waste by Land Use**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	90.62	18.3950	1.0871	0.0000	45.5729
City Park	0.5	0.1015	6.0000e-003	0.0000	0.2515
General Office Building	23.25	4.7195	0.2789	0.0000	11.6925
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	26.25	5.3285	0.3149	0.0000	13.2012
Single Family Housing	20.91	4.2445	0.2509	0.0000	10.5157
<b>Total</b>		<b>32.7891</b>	<b>1.9378</b>	<b>0.0000</b>	<b>81.2337</b>

**9.0 Operational Offroad**

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

Fire Pumps and Emergency Generators

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

San Luis Ranch Project - 2019 Start - San Luis Obispo County APCD Air District, Annual

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

Equipment Type	Number
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**11.0 Vegetation**

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San Luis Ranch Project - 2019 Start - San Luis Obispo County APCD Air District, Summer

**San Luis Ranch Project - 2019 Start**  
**San Luis Obispo County APCD Air District, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	25.00	1000sqft	0.63	25,000.00	0
Parking Lot	1.90	Acre	1.90	82,764.00	0
Parking Lot	1.80	Acre	1.80	78,408.00	0
Parking Lot	0.70	Acre	0.70	30,492.00	0
City Park	5.80	Acre	5.80	252,648.00	0
Apartments Mid Rise	197.00	Dwelling Unit	7.20	197,000.00	563
Single Family Housing	18.00	Dwelling Unit	9.10	32,400.00	51
Regional Shopping Center	25.00	1000sqft	0.57	25,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	3.2	<b>Precipitation Freq (Days)</b>	44
<b>Climate Zone</b>	4			<b>Operational Year</b>	2022
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MW hr)</b>	641.35	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

**1.3 User Entered Comments & Non-Default Data**

San Luis Ranch Project - 2019 Start - San Luis Obispo County APCD Air District, Summer

Project Characteristics -

Land Use - Land use values from buildout and phasing in Specific Plan Section 7.7. Includes portions of Phases 1, 2, 3, 5, and 6; and Dalidio improvements.

Construction Phase - No demolition in phases 1, 2, 4, 5 and 6. AC expected to overlap with half of building construction as painting would occur as buildings are finished.

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Demolition - Building sf estimated using Google Earth

Grading - Total import proportionally distributed by phase acreage.

Vehicle Trips - Trip generation rate based on Omni-Means 2016 Traffic Impact Study.

Mobile Land Use Mitigation - Trip reductions from project's density, diversity, and access to alternative transportation accounted for in trip generation rates.

Energy Mitigation - Per Specific Plan, appliances will be energy efficient.

Water Mitigation - Total outdoor water use for these land uses = 20.7 Mgal, with park at 6.9 Mgal; Park using reclaimed = 33% of total.

## San Luis Ranch Project - 2019 Start - San Luis Obispo County APCD Air District, Summer

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	0
tblConstructionPhase	NumDays	35.00	220.00
tblConstructionPhase	PhaseEndDate	1/10/2022	3/8/2021
tblConstructionPhase	PhaseStartDate	3/9/2021	5/5/2020
tblGrading	MaterialImported	0.00	84,320.00
tblLandUse	LotAcreage	0.57	0.63
tblLandUse	LotAcreage	5.18	7.20
tblLandUse	LotAcreage	5.84	9.10
tblProjectCharacteristics	OperationalYear	2018	2022
tblVehicleTrips	ST_TR	6.39	5.29
tblVehicleTrips	ST_TR	22.75	0.00
tblVehicleTrips	ST_TR	2.46	2.68
tblVehicleTrips	ST_TR	49.97	10.38
tblVehicleTrips	ST_TR	9.91	5.29
tblVehicleTrips	SU_TR	5.86	4.61
tblVehicleTrips	SU_TR	16.74	0.00
tblVehicleTrips	SU_TR	1.05	1.14
tblVehicleTrips	SU_TR	25.24	5.24
tblVehicleTrips	SU_TR	8.62	4.61
tblVehicleTrips	WD_TR	6.65	5.09
tblVehicleTrips	WD_TR	1.89	0.00
tblVehicleTrips	WD_TR	11.03	12.00
tblVehicleTrips	WD_TR	42.70	8.87
tblVehicleTrips	WD_TR	9.52	5.09

## 2.0 Emissions Summary

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San Luis Ranch Project - 2019 Start - San Luis Obispo County APCD Air District, Summer

**2.1 Overall Construction (Maximum Daily Emission)**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2019	7.2160	135.2333	51.5134	0.2512	18.2442	2.8691	20.6358	9.9779	2.6574	12.1781	0.0000	26,484.94 26	26,484.94 26	3.0704	0.0000	26,561.70 25
2020	42.7933	33.1051	36.6998	0.0899	4.6448	1.3129	5.9577	1.2429	1.2416	2.4845	0.0000	8,958.013 8	8,958.013 8	0.8999	0.0000	8,980.511 1
2021	42.3586	30.1326	34.6760	0.0885	4.6449	1.1061	5.7510	1.2429	1.0455	2.2885	0.0000	8,812.812 2	8,812.812 2	0.8733	0.0000	8,834.644 5
<b>Maximum</b>	<b>42.7933</b>	<b>135.2333</b>	<b>51.5134</b>	<b>0.2512</b>	<b>18.2442</b>	<b>2.8691</b>	<b>20.6358</b>	<b>9.9779</b>	<b>2.6574</b>	<b>12.1781</b>	<b>0.0000</b>	<b>26,484.94 26</b>	<b>26,484.94 26</b>	<b>3.0704</b>	<b>0.0000</b>	<b>26,561.70 25</b>

**Mitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2019	7.2160	135.2333	51.5134	0.2512	18.2442	2.8691	20.6358	9.9779	2.6574	12.1781	0.0000	26,484.94 26	26,484.94 26	3.0704	0.0000	26,561.70 25
2020	42.7933	33.1051	36.6998	0.0899	4.6448	1.3129	5.9577	1.2429	1.2416	2.4845	0.0000	8,958.013 8	8,958.013 8	0.8999	0.0000	8,980.511 0
2021	42.3586	30.1326	34.6760	0.0885	4.6449	1.1061	5.7510	1.2429	1.0455	2.2885	0.0000	8,812.812 2	8,812.812 2	0.8733	0.0000	8,834.644 5
<b>Maximum</b>	<b>42.7933</b>	<b>135.2333</b>	<b>51.5134</b>	<b>0.2512</b>	<b>18.2442</b>	<b>2.8691</b>	<b>20.6358</b>	<b>9.9779</b>	<b>2.6574</b>	<b>12.1781</b>	<b>0.0000</b>	<b>26,484.94 26</b>	<b>26,484.94 26</b>	<b>3.0704</b>	<b>0.0000</b>	<b>26,561.70 25</b>





San Luis Ranch Project - 2019 Start - San Luis Obispo County APCD Air District, Summer

**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	8.9027	0.2048	17.7630	9.4000e-004		0.0981	0.0981		0.0981	0.0981	0.0000	31.9519	31.9519	0.0309	0.0000	32.7231
Energy	0.0975	0.8404	0.4100	5.3200e-003		0.0673	0.0673		0.0673	0.0673		1,063.1759	1,063.1759	0.0204	0.0195	1,069.4938
Mobile	2.9091	11.2388	30.6504	0.0920	8.3620	0.0916	8.4536	2.2338	0.0859	2.3198		9,277.8426	9,277.8426	0.3582		9,286.7964
<b>Total</b>	<b>11.9092</b>	<b>12.2841</b>	<b>48.8235</b>	<b>0.0982</b>	<b>8.3620</b>	<b>0.2570</b>	<b>8.6190</b>	<b>2.2338</b>	<b>0.2514</b>	<b>2.4852</b>	<b>0.0000</b>	<b>10,372.9704</b>	<b>10,372.9704</b>	<b>0.4094</b>	<b>0.0195</b>	<b>10,389.0133</b>

**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	8.9027	0.2048	17.7630	9.4000e-004		0.0981	0.0981		0.0981	0.0981	0.0000	31.9519	31.9519	0.0309	0.0000	32.7231
Energy	0.0975	0.8404	0.4100	5.3200e-003		0.0673	0.0673		0.0673	0.0673		1,063.1759	1,063.1759	0.0204	0.0195	1,069.4938
Mobile	2.9091	11.2388	30.6504	0.0920	8.3620	0.0916	8.4536	2.2338	0.0859	2.3198		9,277.8426	9,277.8426	0.3582		9,286.7964
<b>Total</b>	<b>11.9092</b>	<b>12.2841</b>	<b>48.8235</b>	<b>0.0982</b>	<b>8.3620</b>	<b>0.2570</b>	<b>8.6190</b>	<b>2.2338</b>	<b>0.2514</b>	<b>2.4852</b>	<b>0.0000</b>	<b>10,372.9704</b>	<b>10,372.9704</b>	<b>0.4094</b>	<b>0.0195</b>	<b>10,389.0133</b>

## San Luis Ranch Project - 2019 Start - San Luis Obispo County APCD Air District, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

### 3.0 Construction Detail

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#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2019	2/11/2019	5	30	
2	Site Preparation	Site Preparation	2/12/2019	3/11/2019	5	20	
3	Grading	Grading	3/12/2019	5/13/2019	5	45	
4	Building Construction	Building Construction	5/14/2019	1/18/2021	5	440	
5	Paving	Paving	1/19/2021	3/8/2021	5	35	
6	Architectural Coating	Architectural Coating	5/5/2020	3/8/2021	5	220	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 112.5

Acres of Paving: 4.4

Residential Indoor: 464,535; Residential Outdoor: 154,845; Non-Residential Indoor: 75,000; Non-Residential Outdoor: 25,000; Striped Parking Area: 11,500 (Architectural Coating – sqft)

#### OffRoad Equipment

## San Luis Ranch Project - 2019 Start - San Luis Obispo County APCD Air District, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38

**Trips and VMT**

San Luis Ranch Project - 2019 Start - San Luis Obispo County APCD Air District, Summer

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	6	15.00	0.00	80.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	10,540.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	351.00	104.00	0.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	70.00	0.00	0.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

**3.2 Demolition - 2019**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5952	0.0000	0.5952	0.0901	0.0000	0.0901			0.0000			0.0000
Off-Road	3.5134	35.7830	22.0600	0.0388		1.7949	1.7949		1.6697	1.6697		3,816.8994	3,816.8994	1.0618		3,843.4451
<b>Total</b>	<b>3.5134</b>	<b>35.7830</b>	<b>22.0600</b>	<b>0.0388</b>	<b>0.5952</b>	<b>1.7949</b>	<b>2.3901</b>	<b>0.0901</b>	<b>1.6697</b>	<b>1.7598</b>		<b>3,816.8994</b>	<b>3,816.8994</b>	<b>1.0618</b>		<b>3,843.4451</b>

San Luis Ranch Project - 2019 Start - San Luis Obispo County APCD Air District, Summer

**3.2 Demolition - 2019**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0271	0.9180	0.1973	2.1300e-003	0.0465	5.5200e-003	0.0520	0.0127	5.2800e-003	0.0180		229.4602	229.4602	0.0128		229.7792
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	0.0705	0.0608	0.6028	1.4400e-003	0.1483	9.8000e-004	0.1493	0.0393	9.1000e-004	0.0402		143.0023	143.0023	5.2500e-003		143.1336
<b>Total</b>	<b>0.0976</b>	<b>0.9788</b>	<b>0.8001</b>	<b>3.5700e-003</b>	<b>0.1948</b>	<b>6.5000e-003</b>	<b>0.2013</b>	<b>0.0521</b>	<b>6.1900e-003</b>	<b>0.0583</b>		<b>372.4624</b>	<b>372.4624</b>	<b>0.0180</b>		<b>372.9128</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5952	0.0000	0.5952	0.0901	0.0000	0.0901			0.0000			0.0000
Off-Road	3.5134	35.7830	22.0600	0.0388		1.7949	1.7949		1.6697	1.6697	0.0000	3,816.8994	3,816.8994	1.0618		3,843.4451
<b>Total</b>	<b>3.5134</b>	<b>35.7830</b>	<b>22.0600</b>	<b>0.0388</b>	<b>0.5952</b>	<b>1.7949</b>	<b>2.3901</b>	<b>0.0901</b>	<b>1.6697</b>	<b>1.7598</b>	<b>0.0000</b>	<b>3,816.8994</b>	<b>3,816.8994</b>	<b>1.0618</b>		<b>3,843.4451</b>

San Luis Ranch Project - 2019 Start - San Luis Obispo County APCD Air District, Summer

**3.2 Demolition - 2019**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0271	0.9180	0.1973	2.1300e-003	0.0465	5.5200e-003	0.0520	0.0127	5.2800e-003	0.0180		229.4602	229.4602	0.0128		229.7792
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	0.0705	0.0608	0.6028	1.4400e-003	0.1483	9.8000e-004	0.1493	0.0393	9.1000e-004	0.0402		143.0023	143.0023	5.2500e-003		143.1336
<b>Total</b>	<b>0.0976</b>	<b>0.9788</b>	<b>0.8001</b>	<b>3.5700e-003</b>	<b>0.1948</b>	<b>6.5000e-003</b>	<b>0.2013</b>	<b>0.0521</b>	<b>6.1900e-003</b>	<b>0.0583</b>		<b>372.4624</b>	<b>372.4624</b>	<b>0.0180</b>		<b>372.9128</b>

**3.3 Site Preparation - 2019**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.3350	45.5727	22.0630	0.0380		2.3904	2.3904		2.1991	2.1991		3,766.4529	3,766.4529	1.1917		3,796.2445
<b>Total</b>	<b>4.3350</b>	<b>45.5727</b>	<b>22.0630</b>	<b>0.0380</b>	<b>18.0663</b>	<b>2.3904</b>	<b>20.4566</b>	<b>9.9307</b>	<b>2.1991</b>	<b>12.1298</b>		<b>3,766.4529</b>	<b>3,766.4529</b>	<b>1.1917</b>		<b>3,796.2445</b>

San Luis Ranch Project - 2019 Start - San Luis Obispo County APCD Air District, Summer

**3.3 Site Preparation - 2019**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0846	0.0729	0.7233	1.7200e-003	0.1780	1.1800e-003	0.1791	0.0472	1.0900e-003	0.0483		171.6027	171.6027	6.3000e-003		171.7603
<b>Total</b>	<b>0.0846</b>	<b>0.0729</b>	<b>0.7233</b>	<b>1.7200e-003</b>	<b>0.1780</b>	<b>1.1800e-003</b>	<b>0.1791</b>	<b>0.0472</b>	<b>1.0900e-003</b>	<b>0.0483</b>		<b>171.6027</b>	<b>171.6027</b>	<b>6.3000e-003</b>		<b>171.7603</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.3350	45.5727	22.0630	0.0380		2.3904	2.3904		2.1991	2.1991	0.0000	3,766.4529	3,766.4529	1.1917		3,796.2445
<b>Total</b>	<b>4.3350</b>	<b>45.5727</b>	<b>22.0630</b>	<b>0.0380</b>	<b>18.0663</b>	<b>2.3904</b>	<b>20.4566</b>	<b>9.9307</b>	<b>2.1991</b>	<b>12.1298</b>	<b>0.0000</b>	<b>3,766.4529</b>	<b>3,766.4529</b>	<b>1.1917</b>		<b>3,796.2445</b>



San Luis Ranch Project - 2019 Start - San Luis Obispo County APCD Air District, Summer

**3.3 Site Preparation - 2019**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0846	0.0729	0.7233	1.7200e-003	0.1780	1.1800e-003	0.1791	0.0472	1.0900e-003	0.0483		171.6027	171.6027	6.3000e-003		171.7603
<b>Total</b>	<b>0.0846</b>	<b>0.0729</b>	<b>0.7233</b>	<b>1.7200e-003</b>	<b>0.1780</b>	<b>1.1800e-003</b>	<b>0.1791</b>	<b>0.0472</b>	<b>1.0900e-003</b>	<b>0.0483</b>		<b>171.6027</b>	<b>171.6027</b>	<b>6.3000e-003</b>		<b>171.7603</b>

**3.4 Grading - 2019**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.0182	0.0000	9.0182	3.6487	0.0000	3.6487			0.0000			0.0000
Off-Road	4.7389	54.5202	33.3768	0.0620		2.3827	2.3827		2.1920	2.1920		6,140.0195	6,140.0195	1.9426		6,188.5854
<b>Total</b>	<b>4.7389</b>	<b>54.5202</b>	<b>33.3768</b>	<b>0.0620</b>	<b>9.0182</b>	<b>2.3827</b>	<b>11.4009</b>	<b>3.6487</b>	<b>2.1920</b>	<b>5.8408</b>		<b>6,140.0195</b>	<b>6,140.0195</b>	<b>1.9426</b>		<b>6,188.5854</b>

San Luis Ranch Project - 2019 Start - San Luis Obispo County APCD Air District, Summer

**3.4 Grading - 2019**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	2.3832	80.6321	17.3329	0.1873	4.0853	0.4852	4.5705	1.1190	0.4642	1.5832		20,154.2534	20,154.2534	1.1208		20,182.2724
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	0.0940	0.0810	0.8037	1.9200e-003	0.1977	1.3100e-003	0.1990	0.0524	1.2100e-003	0.0537		190.6697	190.6697	7.0000e-003		190.8448
<b>Total</b>	<b>2.4771</b>	<b>80.7132</b>	<b>18.1367</b>	<b>0.1892</b>	<b>4.2831</b>	<b>0.4865</b>	<b>4.7696</b>	<b>1.1714</b>	<b>0.4654</b>	<b>1.6368</b>		<b>20,344.9231</b>	<b>20,344.9231</b>	<b>1.1278</b>		<b>20,373.1171</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.0182	0.0000	9.0182	3.6487	0.0000	3.6487			0.0000			0.0000
Off-Road	4.7389	54.5202	33.3768	0.0620		2.3827	2.3827		2.1920	2.1920	0.0000	6,140.0195	6,140.0195	1.9426		6,188.5854
<b>Total</b>	<b>4.7389</b>	<b>54.5202</b>	<b>33.3768</b>	<b>0.0620</b>	<b>9.0182</b>	<b>2.3827</b>	<b>11.4009</b>	<b>3.6487</b>	<b>2.1920</b>	<b>5.8408</b>	<b>0.0000</b>	<b>6,140.0195</b>	<b>6,140.0195</b>	<b>1.9426</b>		<b>6,188.5854</b>

San Luis Ranch Project - 2019 Start - San Luis Obispo County APCD Air District, Summer

**3.4 Grading - 2019**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	2.3832	80.6321	17.3329	0.1873	4.0853	0.4852	4.5705	1.1190	0.4642	1.5832		20,154.2534	20,154.2534	1.1208		20,182.2724
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	0.0940	0.0810	0.8037	1.9200e-003	0.1977	1.3100e-003	0.1990	0.0524	1.2100e-003	0.0537		190.6697	190.6697	7.0000e-003		190.8448
<b>Total</b>	<b>2.4771</b>	<b>80.7132</b>	<b>18.1367</b>	<b>0.1892</b>	<b>4.2831</b>	<b>0.4865</b>	<b>4.7696</b>	<b>1.1714</b>	<b>0.4654</b>	<b>1.6368</b>		<b>20,344.9231</b>	<b>20,344.9231</b>	<b>1.1278</b>		<b>20,373.1171</b>

**3.5 Building Construction - 2019**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127		2,591.5802	2,591.5802	0.6313		2,607.3635
<b>Total</b>	<b>2.3612</b>	<b>21.0788</b>	<b>17.1638</b>	<b>0.0269</b>		<b>1.2899</b>	<b>1.2899</b>		<b>1.2127</b>	<b>1.2127</b>		<b>2,591.5802</b>	<b>2,591.5802</b>	<b>0.6313</b>		<b>2,607.3635</b>

San Luis Ranch Project - 2019 Start - San Luis Obispo County APCD Air District, Summer

**3.5 Building Construction - 2019**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.4759	11.7437	3.4953	0.0210	0.4827	0.0938	0.5765	0.1390	0.0898	0.2288		2,236.0591	2,236.0591	0.1373		2,239.4926
Worker	1.6488	1.4218	14.1052	0.0336	3.4700	0.0229	3.4930	0.9203	0.0212	0.9415		3,346.2526	3,346.2526	0.1229		3,349.3257
<b>Total</b>	<b>2.1247</b>	<b>13.1655</b>	<b>17.6005</b>	<b>0.0547</b>	<b>3.9527</b>	<b>0.1168</b>	<b>4.0695</b>	<b>1.0593</b>	<b>0.1109</b>	<b>1.1703</b>		<b>5,582.3116</b>	<b>5,582.3116</b>	<b>0.2603</b>		<b>5,588.8184</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127	0.0000	2,591.5802	2,591.5802	0.6313		2,607.3635
<b>Total</b>	<b>2.3612</b>	<b>21.0788</b>	<b>17.1638</b>	<b>0.0269</b>		<b>1.2899</b>	<b>1.2899</b>		<b>1.2127</b>	<b>1.2127</b>	<b>0.0000</b>	<b>2,591.5802</b>	<b>2,591.5802</b>	<b>0.6313</b>		<b>2,607.3635</b>

San Luis Ranch Project - 2019 Start - San Luis Obispo County APCD Air District, Summer

**3.5 Building Construction - 2019**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.4759	11.7437	3.4953	0.0210	0.4827	0.0938	0.5765	0.1390	0.0898	0.2288		2,236.0591	2,236.0591	0.1373		2,239.4926
Worker	1.6488	1.4218	14.1052	0.0336	3.4700	0.0229	3.4930	0.9203	0.0212	0.9415		3,346.2526	3,346.2526	0.1229		3,349.3257
<b>Total</b>	<b>2.1247</b>	<b>13.1655</b>	<b>17.6005</b>	<b>0.0547</b>	<b>3.9527</b>	<b>0.1168</b>	<b>4.0695</b>	<b>1.0593</b>	<b>0.1109</b>	<b>1.1703</b>		<b>5,582.3116</b>	<b>5,582.3116</b>	<b>0.2603</b>		<b>5,588.8184</b>

**3.5 Building Construction - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503		2,553.0631	2,553.0631	0.6229		2,568.6345
<b>Total</b>	<b>2.1198</b>	<b>19.1860</b>	<b>16.8485</b>	<b>0.0269</b>		<b>1.1171</b>	<b>1.1171</b>		<b>1.0503</b>	<b>1.0503</b>		<b>2,553.0631</b>	<b>2,553.0631</b>	<b>0.6229</b>		<b>2,568.6345</b>

San Luis Ranch Project - 2019 Start - San Luis Obispo County APCD Air District, Summer

**3.5 Building Construction - 2020**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3771	10.7332	3.0758	0.0210	0.4828	0.0583	0.5410	0.1390	0.0557	0.1948		2,233.937 2	2,233.937 2	0.1285		2,237.148 6
Worker	1.5013	1.2523	12.4593	0.0326	3.4700	0.0222	3.4922	0.9203	0.0205	0.9408		3,242.844 4	3,242.844 4	0.1057		3,245.487 0
<b>Total</b>	<b>1.8784</b>	<b>11.9855</b>	<b>15.5351</b>	<b>0.0536</b>	<b>3.9528</b>	<b>0.0805</b>	<b>4.0333</b>	<b>1.0594</b>	<b>0.0762</b>	<b>1.1356</b>		<b>5,476.781 6</b>	<b>5,476.781 6</b>	<b>0.2342</b>		<b>5,482.635 6</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503	0.0000	2,553.063 1	2,553.063 1	0.6229		2,568.634 5
<b>Total</b>	<b>2.1198</b>	<b>19.1860</b>	<b>16.8485</b>	<b>0.0269</b>		<b>1.1171</b>	<b>1.1171</b>		<b>1.0503</b>	<b>1.0503</b>	<b>0.0000</b>	<b>2,553.063 1</b>	<b>2,553.063 1</b>	<b>0.6229</b>		<b>2,568.634 5</b>

San Luis Ranch Project - 2019 Start - San Luis Obispo County APCD Air District, Summer

**3.5 Building Construction - 2020**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.3771	10.7332	3.0758	0.0210	0.4828	0.0583	0.5410	0.1390	0.0557	0.1948		2,233.937 2	2,233.937 2	0.1285			2,237.148 6
Worker	1.5013	1.2523	12.4593	0.0326	3.4700	0.0222	3.4922	0.9203	0.0205	0.9408		3,242.844 4	3,242.844 4	0.1057			3,245.487 0
<b>Total</b>	<b>1.8784</b>	<b>11.9855</b>	<b>15.5351</b>	<b>0.0536</b>	<b>3.9528</b>	<b>0.0805</b>	<b>4.0333</b>	<b>1.0594</b>	<b>0.0762</b>	<b>1.1356</b>		<b>5,476.781 6</b>	<b>5,476.781 6</b>	<b>0.2342</b>			<b>5,482.635 6</b>

**3.5 Building Construction - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013		2,553.363 9	2,553.363 9	0.6160			2,568.764 3
<b>Total</b>	<b>1.9009</b>	<b>17.4321</b>	<b>16.5752</b>	<b>0.0269</b>		<b>0.9586</b>	<b>0.9586</b>		<b>0.9013</b>	<b>0.9013</b>		<b>2,553.363 9</b>	<b>2,553.363 9</b>	<b>0.6160</b>			<b>2,568.764 3</b>

San Luis Ranch Project - 2019 Start - San Luis Obispo County APCD Air District, Summer

**3.5 Building Construction - 2021**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3082	9.8302	2.7125	0.0209	0.4829	0.0276	0.5104	0.1391	0.0264	0.1655		2,220.9868	2,220.9868	0.1251		2,224.1153
Worker	1.3982	1.1200	11.3144	0.0315	3.4700	0.0215	3.4915	0.9203	0.0198	0.9401		3,132.3319	3,132.3319	0.0941		3,134.6835
<b>Total</b>	<b>1.7065</b>	<b>10.9503</b>	<b>14.0268</b>	<b>0.0523</b>	<b>3.9529</b>	<b>0.0491</b>	<b>4.0020</b>	<b>1.0594</b>	<b>0.0462</b>	<b>1.1056</b>		<b>5,353.3187</b>	<b>5,353.3187</b>	<b>0.2192</b>		<b>5,358.7988</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643
<b>Total</b>	<b>1.9009</b>	<b>17.4321</b>	<b>16.5752</b>	<b>0.0269</b>		<b>0.9586</b>	<b>0.9586</b>		<b>0.9013</b>	<b>0.9013</b>	<b>0.0000</b>	<b>2,553.3639</b>	<b>2,553.3639</b>	<b>0.6160</b>		<b>2,568.7643</b>



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**3.5 Building Construction - 2021**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3082	9.8302	2.7125	0.0209	0.4829	0.0276	0.5104	0.1391	0.0264	0.1655		2,220.9868	2,220.9868	0.1251		2,224.1153
Worker	1.3982	1.1200	11.3144	0.0315	3.4700	0.0215	3.4915	0.9203	0.0198	0.9401		3,132.3319	3,132.3319	0.0941		3,134.6835
<b>Total</b>	<b>1.7065</b>	<b>10.9503</b>	<b>14.0268</b>	<b>0.0523</b>	<b>3.9529</b>	<b>0.0491</b>	<b>4.0020</b>	<b>1.0594</b>	<b>0.0462</b>	<b>1.1056</b>		<b>5,353.3187</b>	<b>5,353.3187</b>	<b>0.2192</b>		<b>5,358.7988</b>

**3.6 Paving - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235		2,207.2109	2,207.2109	0.7139		2,225.0573
Paving	0.3294					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.5849</b>	<b>12.9191</b>	<b>14.6532</b>	<b>0.0228</b>		<b>0.6777</b>	<b>0.6777</b>		<b>0.6235</b>	<b>0.6235</b>		<b>2,207.2109</b>	<b>2,207.2109</b>	<b>0.7139</b>		<b>2,225.0573</b>

San Luis Ranch Project - 2019 Start - San Luis Obispo County APCD Air District, Summer

**3.6 Paving - 2021**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0598	0.0479	0.4835	1.3400e-003	0.1483	9.2000e-004	0.1492	0.0393	8.5000e-004	0.0402		133.8603	133.8603	4.0200e-003		133.9608
<b>Total</b>	<b>0.0598</b>	<b>0.0479</b>	<b>0.4835</b>	<b>1.3400e-003</b>	<b>0.1483</b>	<b>9.2000e-004</b>	<b>0.1492</b>	<b>0.0393</b>	<b>8.5000e-004</b>	<b>0.0402</b>		<b>133.8603</b>	<b>133.8603</b>	<b>4.0200e-003</b>		<b>133.9608</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235	0.0000	2,207.2109	2,207.2109	0.7139		2,225.0573
Paving	0.3294					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.5849</b>	<b>12.9191</b>	<b>14.6532</b>	<b>0.0228</b>		<b>0.6777</b>	<b>0.6777</b>		<b>0.6235</b>	<b>0.6235</b>	<b>0.0000</b>	<b>2,207.2109</b>	<b>2,207.2109</b>	<b>0.7139</b>		<b>2,225.0573</b>

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**3.6 Paving - 2021**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0598	0.0479	0.4835	1.3400e-003	0.1483	9.2000e-004	0.1492	0.0393	8.5000e-004	0.0402		133.8603	133.8603	4.0200e-003		133.9608
<b>Total</b>	<b>0.0598</b>	<b>0.0479</b>	<b>0.4835</b>	<b>1.3400e-003</b>	<b>0.1483</b>	<b>9.2000e-004</b>	<b>0.1492</b>	<b>0.0393</b>	<b>8.5000e-004</b>	<b>0.0402</b>		<b>133.8603</b>	<b>133.8603</b>	<b>4.0200e-003</b>		<b>133.9608</b>

**3.7 Architectural Coating - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	38.2535					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2422	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109		281.4481	281.4481	0.0218		281.9928
<b>Total</b>	<b>38.4957</b>	<b>1.6838</b>	<b>1.8314</b>	<b>2.9700e-003</b>		<b>0.1109</b>	<b>0.1109</b>		<b>0.1109</b>	<b>0.1109</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0218</b>		<b>281.9928</b>

San Luis Ranch Project - 2019 Start - San Luis Obispo County APCD Air District, Summer

**3.7 Architectural Coating - 2020**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	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	0.2994	0.2498	2.4848	6.5000e-003	0.6920	4.4300e-003	0.6965	0.1835	4.0800e-003	0.1876		646.7211	646.7211	0.0211		647.2481
<b>Total</b>	<b>0.2994</b>	<b>0.2498</b>	<b>2.4848</b>	<b>6.5000e-003</b>	<b>0.6920</b>	<b>4.4300e-003</b>	<b>0.6965</b>	<b>0.1835</b>	<b>4.0800e-003</b>	<b>0.1876</b>		<b>646.7211</b>	<b>646.7211</b>	<b>0.0211</b>		<b>647.2481</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	38.2535					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2422	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109	0.0000	281.4481	281.4481	0.0218		281.9928
<b>Total</b>	<b>38.4957</b>	<b>1.6838</b>	<b>1.8314</b>	<b>2.9700e-003</b>		<b>0.1109</b>	<b>0.1109</b>		<b>0.1109</b>	<b>0.1109</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0218</b>		<b>281.9928</b>

San Luis Ranch Project - 2019 Start - San Luis Obispo County APCD Air District, Summer

**3.7 Architectural Coating - 2020**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	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	0.2994	0.2498	2.4848	6.5000e-003	0.6920	4.4300e-003	0.6965	0.1835	4.0800e-003	0.1876		646.7211	646.7211	0.0211		647.2481
<b>Total</b>	<b>0.2994</b>	<b>0.2498</b>	<b>2.4848</b>	<b>6.5000e-003</b>	<b>0.6920</b>	<b>4.4300e-003</b>	<b>0.6965</b>	<b>0.1835</b>	<b>4.0800e-003</b>	<b>0.1876</b>		<b>646.7211</b>	<b>646.7211</b>	<b>0.0211</b>		<b>647.2481</b>

**3.7 Architectural Coating - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	38.2535					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309
<b>Total</b>	<b>38.4724</b>	<b>1.5268</b>	<b>1.8176</b>	<b>2.9700e-003</b>		<b>0.0941</b>	<b>0.0941</b>		<b>0.0941</b>	<b>0.0941</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0193</b>		<b>281.9309</b>

San Luis Ranch Project - 2019 Start - San Luis Obispo County APCD Air District, Summer

**3.7 Architectural Coating - 2021**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2789	0.2234	2.2564	6.2700e-003	0.6920	4.2900e-003	0.6963	0.1835	3.9500e-003	0.1875		624.6816	624.6816	0.0188		625.1506
<b>Total</b>	<b>0.2789</b>	<b>0.2234</b>	<b>2.2564</b>	<b>6.2700e-003</b>	<b>0.6920</b>	<b>4.2900e-003</b>	<b>0.6963</b>	<b>0.1835</b>	<b>3.9500e-003</b>	<b>0.1875</b>		<b>624.6816</b>	<b>624.6816</b>	<b>0.0188</b>		<b>625.1506</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	38.2535					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941	0.0000	281.4481	281.4481	0.0193		281.9309
<b>Total</b>	<b>38.4724</b>	<b>1.5268</b>	<b>1.8176</b>	<b>2.9700e-003</b>		<b>0.0941</b>	<b>0.0941</b>		<b>0.0941</b>	<b>0.0941</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0193</b>		<b>281.9309</b>

San Luis Ranch Project - 2019 Start - San Luis Obispo County APCD Air District, Summer

**3.7 Architectural Coating - 2021**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2789	0.2234	2.2564	6.2700e-003	0.6920	4.2900e-003	0.6963	0.1835	3.9500e-003	0.1875		624.6816	624.6816	0.0188		625.1506
<b>Total</b>	<b>0.2789</b>	<b>0.2234</b>	<b>2.2564</b>	<b>6.2700e-003</b>	<b>0.6920</b>	<b>4.2900e-003</b>	<b>0.6963</b>	<b>0.1835</b>	<b>3.9500e-003</b>	<b>0.1875</b>		<b>624.6816</b>	<b>624.6816</b>	<b>0.0188</b>		<b>625.1506</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

San Luis Ranch Project - 2019 Start - San Luis Obispo County APCD Air District, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	2.9091	11.2388	30.6504	0.0920	8.3620	0.0916	8.4536	2.2338	0.0859	2.3198		9,277.8426	9,277.8426	0.3582		9,286.7964
Unmitigated	2.9091	11.2388	30.6504	0.0920	8.3620	0.0916	8.4536	2.2338	0.0859	2.3198		9,277.8426	9,277.8426	0.3582		9,286.7964

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	1,002.73	1,042.13	908.17	2,528,468	2,528,468
City Park	0.00	0.00	0.00		
General Office Building	300.00	67.00	28.50	518,513	518,513
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Regional Shopping Center	221.75	259.50	131.00	309,253	309,253
Single Family Housing	91.62	95.22	82.98	231,028	231,028
<b>Total</b>	<b>1,616.10</b>	<b>1,463.85</b>	<b>1,150.65</b>	<b>3,587,261</b>	<b>3,587,261</b>

4.3 Trip Type Information



San Luis Ranch Project - 2019 Start - San Luis Obispo County APCD Air District, Summer

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
Apartments Mid Rise	13.00	5.00	5.00	35.80	21.00	43.20	86	11	3
City Park	13.00	5.00	5.00	33.00	48.00	19.00	66	28	6
General Office Building	13.00	5.00	5.00	33.00	48.00	19.00	77	19	4
Parking Lot	13.00	5.00	5.00	0.00	0.00	0.00	0	0	0
Parking Lot	13.00	5.00	5.00	0.00	0.00	0.00	0	0	0
Parking Lot	13.00	5.00	5.00	0.00	0.00	0.00	0	0	0
Regional Shopping Center	13.00	5.00	5.00	16.30	64.70	19.00	54	35	11
Single Family Housing	13.00	5.00	5.00	35.80	21.00	43.20	86	11	3

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	0.575581	0.029595	0.198288	0.120539	0.026172	0.006482	0.012911	0.019591	0.002354	0.001214	0.005068	0.000784	0.001422
Parking Lot	0.575581	0.029595	0.198288	0.120539	0.026172	0.006482	0.012911	0.019591	0.002354	0.001214	0.005068	0.000784	0.001422
Parking Lot	0.575581	0.029595	0.198288	0.120539	0.026172	0.006482	0.012911	0.019591	0.002354	0.001214	0.005068	0.000784	0.001422
Parking Lot	0.575581	0.029595	0.198288	0.120539	0.026172	0.006482	0.012911	0.019591	0.002354	0.001214	0.005068	0.000784	0.001422
City Park	0.575581	0.029595	0.198288	0.120539	0.026172	0.006482	0.012911	0.019591	0.002354	0.001214	0.005068	0.000784	0.001422
Apartments Mid Rise	0.575581	0.029595	0.198288	0.120539	0.026172	0.006482	0.012911	0.019591	0.002354	0.001214	0.005068	0.000784	0.001422
Single Family Housing	0.575581	0.029595	0.198288	0.120539	0.026172	0.006482	0.012911	0.019591	0.002354	0.001214	0.005068	0.000784	0.001422
Regional Shopping Center	0.575581	0.029595	0.198288	0.120539	0.026172	0.006482	0.012911	0.019591	0.002354	0.001214	0.005068	0.000784	0.001422

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

Install Energy Efficient Appliances

San Luis Ranch Project - 2019 Start - San Luis Obispo County APCD Air District, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0975	0.8404	0.4100	5.3200e-003		0.0673	0.0673		0.0673	0.0673		1,063.1759	1,063.1759	0.0204	0.0195	1,069.4938
NaturalGas Unmitigated	0.0975	0.8404	0.4100	5.3200e-003		0.0673	0.0673		0.0673	0.0673		1,063.1759	1,063.1759	0.0204	0.0195	1,069.4938

San Luis Ranch Project - 2019 Start - San Luis Obispo County APCD Air District, Summer

**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					
Apartments Mid Rise	5974.27	0.0644	0.5506	0.2343	3.5100e-003		0.0445	0.0445		0.0445	0.0445		702.8547	702.8547	0.0135	0.0129	707.0314
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
General Office Building	1126.71	0.0122	0.1105	0.0928	6.6000e-004		8.4000e-003	8.4000e-003		8.4000e-003	8.4000e-003		132.5544	132.5544	2.5400e-003	2.4300e-003	133.3421
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	163.014	1.7600e-003	0.0160	0.0134	1.0000e-004		1.2100e-003	1.2100e-003		1.2100e-003	1.2100e-003		19.1781	19.1781	3.7000e-004	3.5000e-004	19.2921
Single Family Housing	1773	0.0191	0.1634	0.0695	1.0400e-003		0.0132	0.0132		0.0132	0.0132		208.5887	208.5887	4.0000e-003	3.8200e-003	209.8282
<b>Total</b>		<b>0.0975</b>	<b>0.8404</b>	<b>0.4100</b>	<b>5.3100e-003</b>		<b>0.0673</b>	<b>0.0673</b>		<b>0.0673</b>	<b>0.0673</b>		<b>1,063.1759</b>	<b>1,063.1759</b>	<b>0.0204</b>	<b>0.0195</b>	<b>1,069.4938</b>

San Luis Ranch Project - 2019 Start - San Luis Obispo County APCD Air District, Summer

**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					
Apartments Mid Rise	5.97427	0.0644	0.5506	0.2343	3.5100e-003		0.0445	0.0445		0.0445	0.0445		702.8547	702.8547	0.0135	0.0129	707.0314
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
General Office Building	1.12671	0.0122	0.1105	0.0928	6.6000e-004		8.4000e-003	8.4000e-003		8.4000e-003	8.4000e-003		132.5544	132.5544	2.5400e-003	2.4300e-003	133.3421
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	0.163014	1.7600e-003	0.0160	0.0134	1.0000e-004		1.2100e-003	1.2100e-003		1.2100e-003	1.2100e-003		19.1781	19.1781	3.7000e-004	3.5000e-004	19.2921
Single Family Housing	1.773	0.0191	0.1634	0.0695	1.0400e-003		0.0132	0.0132		0.0132	0.0132		208.5887	208.5887	4.0000e-003	3.8200e-003	209.8282
<b>Total</b>		<b>0.0975</b>	<b>0.8404</b>	<b>0.4100</b>	<b>5.3100e-003</b>		<b>0.0673</b>	<b>0.0673</b>		<b>0.0673</b>	<b>0.0673</b>		<b>1,063.1759</b>	<b>1,063.1759</b>	<b>0.0204</b>	<b>0.0195</b>	<b>1,069.4938</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

San Luis Ranch Project - 2019 Start - San Luis Obispo County APCD Air District, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	8.9027	0.2048	17.7630	9.4000e-004		0.0981	0.0981		0.0981	0.0981	0.0000	31.9519	31.9519	0.0309	0.0000	32.7231
Unmitigated	8.9027	0.2048	17.7630	9.4000e-004		0.0981	0.0981		0.0981	0.0981	0.0000	31.9519	31.9519	0.0309	0.0000	32.7231

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	2.3057					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	6.0601					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.5369	0.2048	17.7630	9.4000e-004		0.0981	0.0981		0.0981	0.0981		31.9519	31.9519	0.0309		32.7231
<b>Total</b>	<b>8.9027</b>	<b>0.2048</b>	<b>17.7630</b>	<b>9.4000e-004</b>		<b>0.0981</b>	<b>0.0981</b>		<b>0.0981</b>	<b>0.0981</b>	<b>0.0000</b>	<b>31.9519</b>	<b>31.9519</b>	<b>0.0309</b>	<b>0.0000</b>	<b>32.7231</b>

San Luis Ranch Project - 2019 Start - San Luis Obispo County APCD Air District, Summer

**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	2.3057					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	6.0601					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.5369	0.2048	17.7630	9.4000e-004		0.0981	0.0981		0.0981	0.0981		31.9519	31.9519	0.0309		32.7231
<b>Total</b>	<b>8.9027</b>	<b>0.2048</b>	<b>17.7630</b>	<b>9.4000e-004</b>		<b>0.0981</b>	<b>0.0981</b>		<b>0.0981</b>	<b>0.0981</b>	<b>0.0000</b>	<b>31.9519</b>	<b>31.9519</b>	<b>0.0309</b>	<b>0.0000</b>	<b>32.7231</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

Use Reclaimed Water

**8.0 Waste Detail**

**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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## San Luis Ranch Project - 2019 Start - San Luis Obispo County APCD Air District, Summer

**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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**11.0 Vegetation**

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San Luis Ranch Project - 2019 Start - San Luis Obispo County APCD Air District, Winter

**San Luis Ranch Project - 2019 Start**  
**San Luis Obispo County APCD Air District, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	25.00	1000sqft	0.63	25,000.00	0
Parking Lot	1.90	Acre	1.90	82,764.00	0
Parking Lot	1.80	Acre	1.80	78,408.00	0
Parking Lot	0.70	Acre	0.70	30,492.00	0
City Park	5.80	Acre	5.80	252,648.00	0
Apartments Mid Rise	197.00	Dwelling Unit	7.20	197,000.00	563
Single Family Housing	18.00	Dwelling Unit	9.10	32,400.00	51
Regional Shopping Center	25.00	1000sqft	0.57	25,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	3.2	<b>Precipitation Freq (Days)</b>	44
<b>Climate Zone</b>	4			<b>Operational Year</b>	2022
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MW hr)</b>	641.35	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

**1.3 User Entered Comments & Non-Default Data**



San Luis Ranch Project - 2019 Start - San Luis Obispo County APCD Air District, Winter

Project Characteristics -

Land Use - Land use values from buildout and phasing in Specific Plan Section 7.7. Includes portions of Phases 1, 2, 3, 5, and 6; and Dalidio improvements.

Construction Phase - No demolition in phases 1, 2, 4, 5 and 6. AC expected to overlap with half of building construction as painting would occur as buildings are finished.

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Demolition - Building sf estimated using Google Earth

Grading - Total import proportionally distributed by phase acreage.

Vehicle Trips - Trip generation rate based on Omni-Means 2016 Traffic Impact Study.

Mobile Land Use Mitigation - Trip reductions from project's density, diversity, and access to alternative transportation accounted for in trip generation rates.

Energy Mitigation - Per Specific Plan, appliances will be energy efficient.

Water Mitigation - Total outdoor water use for these land uses = 20.7 Mgal, with park at 6.9 Mgal; Park using reclaimed = 33% of total.

## San Luis Ranch Project - 2019 Start - San Luis Obispo County APCD Air District, Winter

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	0
tblConstructionPhase	NumDays	35.00	220.00
tblConstructionPhase	PhaseEndDate	1/10/2022	3/8/2021
tblConstructionPhase	PhaseStartDate	3/9/2021	5/5/2020
tblGrading	MaterialImported	0.00	84,320.00
tblLandUse	LotAcreage	0.57	0.63
tblLandUse	LotAcreage	5.18	7.20
tblLandUse	LotAcreage	5.84	9.10
tblProjectCharacteristics	OperationalYear	2018	2022
tblVehicleTrips	ST_TR	6.39	5.29
tblVehicleTrips	ST_TR	22.75	0.00
tblVehicleTrips	ST_TR	2.46	2.68
tblVehicleTrips	ST_TR	49.97	10.38
tblVehicleTrips	ST_TR	9.91	5.29
tblVehicleTrips	SU_TR	5.86	4.61
tblVehicleTrips	SU_TR	16.74	0.00
tblVehicleTrips	SU_TR	1.05	1.14
tblVehicleTrips	SU_TR	25.24	5.24
tblVehicleTrips	SU_TR	8.62	4.61
tblVehicleTrips	WD_TR	6.65	5.09
tblVehicleTrips	WD_TR	1.89	0.00
tblVehicleTrips	WD_TR	11.03	12.00
tblVehicleTrips	WD_TR	42.70	8.87
tblVehicleTrips	WD_TR	9.52	5.09

## 2.0 Emissions Summary

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San Luis Ranch Project - 2019 Start - San Luis Obispo County APCD Air District, Winter

**2.1 Overall Construction (Maximum Daily Emission)**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2019	7.2923	135.8726	52.6197	0.2485	18.2442	2.8795	20.6358	9.9779	2.6674	12.1781	0.0000	26,192.19 57	26,192.19 57	3.1081	0.0000	26,269.89 72
2020	43.0670	33.2546	36.6823	0.0875	4.6448	1.3147	5.9595	1.2429	1.2433	2.4862	0.0000	8,708.382 1	8,708.382 1	0.9046	0.0000	8,730.996 9
2021	42.6170	30.2492	34.6315	0.0861	4.6449	1.1077	5.7526	1.2429	1.0471	2.2900	0.0000	8,568.733 4	8,568.733 4	0.8782	0.0000	8,590.687 8
<b>Maximum</b>	<b>43.0670</b>	<b>135.8726</b>	<b>52.6197</b>	<b>0.2485</b>	<b>18.2442</b>	<b>2.8795</b>	<b>20.6358</b>	<b>9.9779</b>	<b>2.6674</b>	<b>12.1781</b>	<b>0.0000</b>	<b>26,192.19 57</b>	<b>26,192.19 57</b>	<b>3.1081</b>	<b>0.0000</b>	<b>26,269.89 72</b>

**Mitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2019	7.2923	135.8726	52.6197	0.2485	18.2442	2.8795	20.6358	9.9779	2.6674	12.1781	0.0000	26,192.19 57	26,192.19 57	3.1081	0.0000	26,269.89 72
2020	43.0670	33.2546	36.6823	0.0875	4.6448	1.3147	5.9595	1.2429	1.2433	2.4862	0.0000	8,708.382 1	8,708.382 1	0.9046	0.0000	8,730.996 9
2021	42.6170	30.2492	34.6315	0.0861	4.6449	1.1077	5.7526	1.2429	1.0471	2.2900	0.0000	8,568.733 4	8,568.733 4	0.8782	0.0000	8,590.687 8
<b>Maximum</b>	<b>43.0670</b>	<b>135.8726</b>	<b>52.6197</b>	<b>0.2485</b>	<b>18.2442</b>	<b>2.8795</b>	<b>20.6358</b>	<b>9.9779</b>	<b>2.6674</b>	<b>12.1781</b>	<b>0.0000</b>	<b>26,192.19 57</b>	<b>26,192.19 57</b>	<b>3.1081</b>	<b>0.0000</b>	<b>26,269.89 72</b>



San Luis Ranch Project - 2019 Start - San Luis Obispo County APCD Air District, Winter

**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	8.9027	0.2048	17.7630	9.4000e-004		0.0981	0.0981		0.0981	0.0981	0.0000	31.9519	31.9519	0.0309	0.0000	32.7231
Energy	0.0975	0.8404	0.4100	5.3200e-003		0.0673	0.0673		0.0673	0.0673		1,063.1759	1,063.1759	0.0204	0.0195	1,069.4938
Mobile	2.8125	11.6344	31.3934	0.0883	8.3620	0.0925	8.4545	2.2338	0.0868	2.3207		8,911.1736	8,911.1736	0.3636		8,920.2625
<b>Total</b>	<b>11.8126</b>	<b>12.6797</b>	<b>49.5664</b>	<b>0.0946</b>	<b>8.3620</b>	<b>0.2580</b>	<b>8.6200</b>	<b>2.2338</b>	<b>0.2523</b>	<b>2.4861</b>	<b>0.0000</b>	<b>10,006.3014</b>	<b>10,006.3014</b>	<b>0.4148</b>	<b>0.0195</b>	<b>10,022.4795</b>

**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	8.9027	0.2048	17.7630	9.4000e-004		0.0981	0.0981		0.0981	0.0981	0.0000	31.9519	31.9519	0.0309	0.0000	32.7231
Energy	0.0975	0.8404	0.4100	5.3200e-003		0.0673	0.0673		0.0673	0.0673		1,063.1759	1,063.1759	0.0204	0.0195	1,069.4938
Mobile	2.8125	11.6344	31.3934	0.0883	8.3620	0.0925	8.4545	2.2338	0.0868	2.3207		8,911.1736	8,911.1736	0.3636		8,920.2625
<b>Total</b>	<b>11.8126</b>	<b>12.6797</b>	<b>49.5664</b>	<b>0.0946</b>	<b>8.3620</b>	<b>0.2580</b>	<b>8.6200</b>	<b>2.2338</b>	<b>0.2523</b>	<b>2.4861</b>	<b>0.0000</b>	<b>10,006.3014</b>	<b>10,006.3014</b>	<b>0.4148</b>	<b>0.0195</b>	<b>10,022.4795</b>

San Luis Ranch Project - 2019 Start - San Luis Obispo County APCD Air District, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

### 3.0 Construction Detail

#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2019	2/11/2019	5	30	
2	Site Preparation	Site Preparation	2/12/2019	3/11/2019	5	20	
3	Grading	Grading	3/12/2019	5/13/2019	5	45	
4	Building Construction	Building Construction	5/14/2019	1/18/2021	5	440	
5	Paving	Paving	1/19/2021	3/8/2021	5	35	
6	Architectural Coating	Architectural Coating	5/5/2020	3/8/2021	5	220	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 112.5

Acres of Paving: 4.4

Residential Indoor: 464,535; Residential Outdoor: 154,845; Non-Residential Indoor: 75,000; Non-Residential Outdoor: 25,000; Striped Parking Area: 11,500 (Architectural Coating – sqft)

#### OffRoad Equipment

## San Luis Ranch Project - 2019 Start - San Luis Obispo County APCD Air District, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38

**Trips and VMT**

San Luis Ranch Project - 2019 Start - San Luis Obispo County APCD Air District, Winter

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	6	15.00	0.00	80.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	10,540.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	351.00	104.00	0.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	70.00	0.00	0.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

**3.2 Demolition - 2019**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5952	0.0000	0.5952	0.0901	0.0000	0.0901			0.0000			0.0000
Off-Road	3.5134	35.7830	22.0600	0.0388		1.7949	1.7949		1.6697	1.6697		3,816.8994	3,816.8994	1.0618		3,843.4451
<b>Total</b>	<b>3.5134</b>	<b>35.7830</b>	<b>22.0600</b>	<b>0.0388</b>	<b>0.5952</b>	<b>1.7949</b>	<b>2.3901</b>	<b>0.0901</b>	<b>1.6697</b>	<b>1.7598</b>		<b>3,816.8994</b>	<b>3,816.8994</b>	<b>1.0618</b>		<b>3,843.4451</b>



San Luis Ranch Project - 2019 Start - San Luis Obispo County APCD Air District, Winter

**3.2 Demolition - 2019**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0279	0.9252	0.2101	2.1000e-003	0.0465	5.6400e-003	0.0522	0.0127	5.4000e-003	0.0181		226.2288	226.2288	0.0132		226.5585
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	0.0802	0.0690	0.5896	1.3700e-003	0.1483	9.8000e-004	0.1493	0.0393	9.1000e-004	0.0402		136.3132	136.3132	5.1200e-003		136.4411
<b>Total</b>	<b>0.1080</b>	<b>0.9942</b>	<b>0.7997</b>	<b>3.4700e-003</b>	<b>0.1948</b>	<b>6.6200e-003</b>	<b>0.2014</b>	<b>0.0521</b>	<b>6.3100e-003</b>	<b>0.0584</b>		<b>362.5420</b>	<b>362.5420</b>	<b>0.0183</b>		<b>362.9997</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5952	0.0000	0.5952	0.0901	0.0000	0.0901			0.0000			0.0000
Off-Road	3.5134	35.7830	22.0600	0.0388		1.7949	1.7949		1.6697	1.6697	0.0000	3,816.8994	3,816.8994	1.0618		3,843.4451
<b>Total</b>	<b>3.5134</b>	<b>35.7830</b>	<b>22.0600</b>	<b>0.0388</b>	<b>0.5952</b>	<b>1.7949</b>	<b>2.3901</b>	<b>0.0901</b>	<b>1.6697</b>	<b>1.7598</b>	<b>0.0000</b>	<b>3,816.8994</b>	<b>3,816.8994</b>	<b>1.0618</b>		<b>3,843.4451</b>

San Luis Ranch Project - 2019 Start - San Luis Obispo County APCD Air District, Winter

**3.2 Demolition - 2019**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0279	0.9252	0.2101	2.1000e-003	0.0465	5.6400e-003	0.0522	0.0127	5.4000e-003	0.0181		226.2288	226.2288	0.0132		226.5585
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	0.0802	0.0690	0.5896	1.3700e-003	0.1483	9.8000e-004	0.1493	0.0393	9.1000e-004	0.0402		136.3132	136.3132	5.1200e-003		136.4411
<b>Total</b>	<b>0.1080</b>	<b>0.9942</b>	<b>0.7997</b>	<b>3.4700e-003</b>	<b>0.1948</b>	<b>6.6200e-003</b>	<b>0.2014</b>	<b>0.0521</b>	<b>6.3100e-003</b>	<b>0.0584</b>		<b>362.5420</b>	<b>362.5420</b>	<b>0.0183</b>		<b>362.9997</b>

**3.3 Site Preparation - 2019**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.3350	45.5727	22.0630	0.0380		2.3904	2.3904		2.1991	2.1991		3,766.4529	3,766.4529	1.1917		3,796.2445
<b>Total</b>	<b>4.3350</b>	<b>45.5727</b>	<b>22.0630</b>	<b>0.0380</b>	<b>18.0663</b>	<b>2.3904</b>	<b>20.4566</b>	<b>9.9307</b>	<b>2.1991</b>	<b>12.1298</b>		<b>3,766.4529</b>	<b>3,766.4529</b>	<b>1.1917</b>		<b>3,796.2445</b>

San Luis Ranch Project - 2019 Start - San Luis Obispo County APCD Air District, Winter

**3.3 Site Preparation - 2019**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0962	0.0828	0.7075	1.6400e-003	0.1780	1.1800e-003	0.1791	0.0472	1.0900e-003	0.0483		163.5759	163.5759	6.1400e-003		163.7294
<b>Total</b>	<b>0.0962</b>	<b>0.0828</b>	<b>0.7075</b>	<b>1.6400e-003</b>	<b>0.1780</b>	<b>1.1800e-003</b>	<b>0.1791</b>	<b>0.0472</b>	<b>1.0900e-003</b>	<b>0.0483</b>		<b>163.5759</b>	<b>163.5759</b>	<b>6.1400e-003</b>		<b>163.7294</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.3350	45.5727	22.0630	0.0380		2.3904	2.3904		2.1991	2.1991	0.0000	3,766.4529	3,766.4529	1.1917		3,796.2445
<b>Total</b>	<b>4.3350</b>	<b>45.5727</b>	<b>22.0630</b>	<b>0.0380</b>	<b>18.0663</b>	<b>2.3904</b>	<b>20.4566</b>	<b>9.9307</b>	<b>2.1991</b>	<b>12.1298</b>	<b>0.0000</b>	<b>3,766.4529</b>	<b>3,766.4529</b>	<b>1.1917</b>		<b>3,796.2445</b>

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**3.3 Site Preparation - 2019**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0962	0.0828	0.7075	1.6400e-003	0.1780	1.1800e-003	0.1791	0.0472	1.0900e-003	0.0483		163.5759	163.5759	6.1400e-003		163.7294
<b>Total</b>	<b>0.0962</b>	<b>0.0828</b>	<b>0.7075</b>	<b>1.6400e-003</b>	<b>0.1780</b>	<b>1.1800e-003</b>	<b>0.1791</b>	<b>0.0472</b>	<b>1.0900e-003</b>	<b>0.0483</b>		<b>163.5759</b>	<b>163.5759</b>	<b>6.1400e-003</b>		<b>163.7294</b>

**3.4 Grading - 2019**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.0182	0.0000	9.0182	3.6487	0.0000	3.6487			0.0000			0.0000
Off-Road	4.7389	54.5202	33.3768	0.0620		2.3827	2.3827		2.1920	2.1920		6,140.0195	6,140.0195	1.9426		6,188.5854
<b>Total</b>	<b>4.7389</b>	<b>54.5202</b>	<b>33.3768</b>	<b>0.0620</b>	<b>9.0182</b>	<b>2.3827</b>	<b>11.4009</b>	<b>3.6487</b>	<b>2.1920</b>	<b>5.8408</b>		<b>6,140.0195</b>	<b>6,140.0195</b>	<b>1.9426</b>		<b>6,188.5854</b>

San Luis Ranch Project - 2019 Start - San Luis Obispo County APCD Air District, Winter

**3.4 Grading - 2019**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	2.4465	81.2605	18.4568	0.1847	4.0853	0.4956	4.5809	1.1190	0.4741	1.5931		19,870.4253	19,870.4253	1.1586		19,899.3903
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	0.1069	0.0920	0.7861	1.8300e-003	0.1977	1.3100e-003	0.1990	0.0524	1.2100e-003	0.0537		181.7510	181.7510	6.8200e-003		181.9215
<b>Total</b>	<b>2.5534</b>	<b>81.3525</b>	<b>19.2430</b>	<b>0.1865</b>	<b>4.2831</b>	<b>0.4969</b>	<b>4.7799</b>	<b>1.1714</b>	<b>0.4753</b>	<b>1.6468</b>		<b>20,052.1762</b>	<b>20,052.1762</b>	<b>1.1654</b>		<b>20,081.3118</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.0182	0.0000	9.0182	3.6487	0.0000	3.6487			0.0000			0.0000
Off-Road	4.7389	54.5202	33.3768	0.0620		2.3827	2.3827		2.1920	2.1920	0.0000	6,140.0195	6,140.0195	1.9426		6,188.5854
<b>Total</b>	<b>4.7389</b>	<b>54.5202</b>	<b>33.3768</b>	<b>0.0620</b>	<b>9.0182</b>	<b>2.3827</b>	<b>11.4009</b>	<b>3.6487</b>	<b>2.1920</b>	<b>5.8408</b>	<b>0.0000</b>	<b>6,140.0195</b>	<b>6,140.0195</b>	<b>1.9426</b>		<b>6,188.5854</b>

San Luis Ranch Project - 2019 Start - San Luis Obispo County APCD Air District, Winter

**3.4 Grading - 2019**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	2.4465	81.2605	18.4568	0.1847	4.0853	0.4956	4.5809	1.1190	0.4741	1.5931		19,870.4253	19,870.4253	1.1586		19,899.3903
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	0.1069	0.0920	0.7861	1.8300e-003	0.1977	1.3100e-003	0.1990	0.0524	1.2100e-003	0.0537		181.7510	181.7510	6.8200e-003		181.9215
<b>Total</b>	<b>2.5534</b>	<b>81.3525</b>	<b>19.2430</b>	<b>0.1865</b>	<b>4.2831</b>	<b>0.4969</b>	<b>4.7799</b>	<b>1.1714</b>	<b>0.4753</b>	<b>1.6468</b>		<b>20,052.1762</b>	<b>20,052.1762</b>	<b>1.1654</b>		<b>20,081.3118</b>

**3.5 Building Construction - 2019**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127		2,591.5802	2,591.5802	0.6313		2,607.3635
<b>Total</b>	<b>2.3612</b>	<b>21.0788</b>	<b>17.1638</b>	<b>0.0269</b>		<b>1.2899</b>	<b>1.2899</b>		<b>1.2127</b>	<b>1.2127</b>		<b>2,591.5802</b>	<b>2,591.5802</b>	<b>0.6313</b>		<b>2,607.3635</b>

San Luis Ranch Project - 2019 Start - San Luis Obispo County APCD Air District, Winter

**3.5 Building Construction - 2019**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.5006	11.7028	3.9284	0.0204	0.4827	0.0965	0.5791	0.1390	0.0923	0.2313		2,170.703 3	2,170.703 3	0.1468		2,174.374 3
Worker	1.8759	1.6142	13.7967	0.0321	3.4700	0.0229	3.4930	0.9203	0.0212	0.9415		3,189.729 4	3,189.729 4	0.1197		3,192.722 7
<b>Total</b>	<b>2.3764</b>	<b>13.3171</b>	<b>17.7251</b>	<b>0.0525</b>	<b>3.9527</b>	<b>0.1194</b>	<b>4.0721</b>	<b>1.0593</b>	<b>0.1135</b>	<b>1.1728</b>		<b>5,360.432 7</b>	<b>5,360.432 7</b>	<b>0.2666</b>		<b>5,367.097 0</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127	0.0000	2,591.580 2	2,591.580 2	0.6313		2,607.363 5
<b>Total</b>	<b>2.3612</b>	<b>21.0788</b>	<b>17.1638</b>	<b>0.0269</b>		<b>1.2899</b>	<b>1.2899</b>		<b>1.2127</b>	<b>1.2127</b>	<b>0.0000</b>	<b>2,591.580 2</b>	<b>2,591.580 2</b>	<b>0.6313</b>		<b>2,607.363 5</b>

San Luis Ranch Project - 2019 Start - San Luis Obispo County APCD Air District, Winter

**3.5 Building Construction - 2019**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.5006	11.7028	3.9284	0.0204	0.4827	0.0965	0.5791	0.1390	0.0923	0.2313		2,170.703 3	2,170.703 3	0.1468		2,174.374 3
Worker	1.8759	1.6142	13.7967	0.0321	3.4700	0.0229	3.4930	0.9203	0.0212	0.9415		3,189.729 4	3,189.729 4	0.1197		3,192.722 7
<b>Total</b>	<b>2.3764</b>	<b>13.3171</b>	<b>17.7251</b>	<b>0.0525</b>	<b>3.9527</b>	<b>0.1194</b>	<b>4.0721</b>	<b>1.0593</b>	<b>0.1135</b>	<b>1.1728</b>		<b>5,360.432 7</b>	<b>5,360.432 7</b>	<b>0.2666</b>		<b>5,367.097 0</b>

**3.5 Building Construction - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503		2,553.063 1	2,553.063 1	0.6229		2,568.634 5
<b>Total</b>	<b>2.1198</b>	<b>19.1860</b>	<b>16.8485</b>	<b>0.0269</b>		<b>1.1171</b>	<b>1.1171</b>		<b>1.0503</b>	<b>1.0503</b>		<b>2,553.063 1</b>	<b>2,553.063 1</b>	<b>0.6229</b>		<b>2,568.634 5</b>



San Luis Ranch Project - 2019 Start - San Luis Obispo County APCD Air District, Winter

**3.5 Building Construction - 2020**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3988	10.6799	3.4634	0.0204	0.4828	0.0601	0.5429	0.1390	0.0575	0.1965		2,166.4306	2,166.4306	0.1374		2,169.8644
Worker	1.7113	1.4214	12.1216	0.0311	3.4700	0.0222	3.4922	0.9203	0.0205	0.9408		3,091.0014	3,091.0014	0.1022		3,093.5566
<b>Total</b>	<b>2.1102</b>	<b>12.1013</b>	<b>15.5850</b>	<b>0.0514</b>	<b>3.9528</b>	<b>0.0823</b>	<b>4.0351</b>	<b>1.0594</b>	<b>0.0780</b>	<b>1.1373</b>		<b>5,257.4320</b>	<b>5,257.4320</b>	<b>0.2396</b>		<b>5,263.4210</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503	0.0000	2,553.0631	2,553.0631	0.6229		2,568.6345
<b>Total</b>	<b>2.1198</b>	<b>19.1860</b>	<b>16.8485</b>	<b>0.0269</b>		<b>1.1171</b>	<b>1.1171</b>		<b>1.0503</b>	<b>1.0503</b>	<b>0.0000</b>	<b>2,553.0631</b>	<b>2,553.0631</b>	<b>0.6229</b>		<b>2,568.6345</b>

San Luis Ranch Project - 2019 Start - San Luis Obispo County APCD Air District, Winter

**3.5 Building Construction - 2020**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3988	10.6799	3.4634	0.0204	0.4828	0.0601	0.5429	0.1390	0.0575	0.1965		2,166.4306	2,166.4306	0.1374		2,169.8644
Worker	1.7113	1.4214	12.1216	0.0311	3.4700	0.0222	3.4922	0.9203	0.0205	0.9408		3,091.0014	3,091.0014	0.1022		3,093.5566
<b>Total</b>	<b>2.1102</b>	<b>12.1013</b>	<b>15.5850</b>	<b>0.0514</b>	<b>3.9528</b>	<b>0.0823</b>	<b>4.0351</b>	<b>1.0594</b>	<b>0.0780</b>	<b>1.1373</b>		<b>5,257.4320</b>	<b>5,257.4320</b>	<b>0.2396</b>		<b>5,263.4210</b>

**3.5 Building Construction - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013		2,553.3639	2,553.3639	0.6160		2,568.7643
<b>Total</b>	<b>1.9009</b>	<b>17.4321</b>	<b>16.5752</b>	<b>0.0269</b>		<b>0.9586</b>	<b>0.9586</b>		<b>0.9013</b>	<b>0.9013</b>		<b>2,553.3639</b>	<b>2,553.3639</b>	<b>0.6160</b>		<b>2,568.7643</b>

San Luis Ranch Project - 2019 Start - San Luis Obispo County APCD Air District, Winter

**3.5 Building Construction - 2021**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3282	9.7659	3.0712	0.0202	0.4829	0.0292	0.5121	0.1391	0.0279	0.1670		2,152.8370	2,152.8370	0.1340		2,156.1872
Worker	1.5970	1.2709	10.9781	0.0300	3.4700	0.0215	3.4915	0.9203	0.0198	0.9401		2,985.6548	2,985.6548	0.0907		2,987.9233
<b>Total</b>	<b>1.9252</b>	<b>11.0368</b>	<b>14.0493</b>	<b>0.0502</b>	<b>3.9529</b>	<b>0.0507</b>	<b>4.0036</b>	<b>1.0594</b>	<b>0.0478</b>	<b>1.1071</b>		<b>5,138.4917</b>	<b>5,138.4917</b>	<b>0.2248</b>		<b>5,144.1105</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643
<b>Total</b>	<b>1.9009</b>	<b>17.4321</b>	<b>16.5752</b>	<b>0.0269</b>		<b>0.9586</b>	<b>0.9586</b>		<b>0.9013</b>	<b>0.9013</b>	<b>0.0000</b>	<b>2,553.3639</b>	<b>2,553.3639</b>	<b>0.6160</b>		<b>2,568.7643</b>

San Luis Ranch Project - 2019 Start - San Luis Obispo County APCD Air District, Winter

**3.5 Building Construction - 2021**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3282	9.7659	3.0712	0.0202	0.4829	0.0292	0.5121	0.1391	0.0279	0.1670		2,152.8370	2,152.8370	0.1340		2,156.1872
Worker	1.5970	1.2709	10.9781	0.0300	3.4700	0.0215	3.4915	0.9203	0.0198	0.9401		2,985.6548	2,985.6548	0.0907		2,987.9233
<b>Total</b>	<b>1.9252</b>	<b>11.0368</b>	<b>14.0493</b>	<b>0.0502</b>	<b>3.9529</b>	<b>0.0507</b>	<b>4.0036</b>	<b>1.0594</b>	<b>0.0478</b>	<b>1.1071</b>		<b>5,138.4917</b>	<b>5,138.4917</b>	<b>0.2248</b>		<b>5,144.1105</b>

**3.6 Paving - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235		2,207.2109	2,207.2109	0.7139		2,225.0573
Paving	0.3294					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.5849</b>	<b>12.9191</b>	<b>14.6532</b>	<b>0.0228</b>		<b>0.6777</b>	<b>0.6777</b>		<b>0.6235</b>	<b>0.6235</b>		<b>2,207.2109</b>	<b>2,207.2109</b>	<b>0.7139</b>		<b>2,225.0573</b>

San Luis Ranch Project - 2019 Start - San Luis Obispo County APCD Air District, Winter

**3.6 Paving - 2021**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0683	0.0543	0.4692	1.2800e-003	0.1483	9.2000e-004	0.1492	0.0393	8.5000e-004	0.0402		127.5921	127.5921	3.8800e-003		127.6890
<b>Total</b>	<b>0.0683</b>	<b>0.0543</b>	<b>0.4692</b>	<b>1.2800e-003</b>	<b>0.1483</b>	<b>9.2000e-004</b>	<b>0.1492</b>	<b>0.0393</b>	<b>8.5000e-004</b>	<b>0.0402</b>		<b>127.5921</b>	<b>127.5921</b>	<b>3.8800e-003</b>		<b>127.6890</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235	0.0000	2,207.2109	2,207.2109	0.7139		2,225.0573
Paving	0.3294					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.5849</b>	<b>12.9191</b>	<b>14.6532</b>	<b>0.0228</b>		<b>0.6777</b>	<b>0.6777</b>		<b>0.6235</b>	<b>0.6235</b>	<b>0.0000</b>	<b>2,207.2109</b>	<b>2,207.2109</b>	<b>0.7139</b>		<b>2,225.0573</b>

San Luis Ranch Project - 2019 Start - San Luis Obispo County APCD Air District, Winter

**3.6 Paving - 2021**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0683	0.0543	0.4692	1.2800e-003	0.1483	9.2000e-004	0.1492	0.0393	8.5000e-004	0.0402		127.5921	127.5921	3.8800e-003		127.6890
<b>Total</b>	<b>0.0683</b>	<b>0.0543</b>	<b>0.4692</b>	<b>1.2800e-003</b>	<b>0.1483</b>	<b>9.2000e-004</b>	<b>0.1492</b>	<b>0.0393</b>	<b>8.5000e-004</b>	<b>0.0402</b>		<b>127.5921</b>	<b>127.5921</b>	<b>3.8800e-003</b>		<b>127.6890</b>

**3.7 Architectural Coating - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	38.2535					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2422	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109		281.4481	281.4481	0.0218		281.9928
<b>Total</b>	<b>38.4957</b>	<b>1.6838</b>	<b>1.8314</b>	<b>2.9700e-003</b>		<b>0.1109</b>	<b>0.1109</b>		<b>0.1109</b>	<b>0.1109</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0218</b>		<b>281.9928</b>

San Luis Ranch Project - 2019 Start - San Luis Obispo County APCD Air District, Winter

**3.7 Architectural Coating - 2020**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	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	0.3413	0.2835	2.4174	6.1900e-003	0.6920	4.4300e-003	0.6965	0.1835	4.0800e-003	0.1876		616.4390	616.4390	0.0204		616.9486
<b>Total</b>	<b>0.3413</b>	<b>0.2835</b>	<b>2.4174</b>	<b>6.1900e-003</b>	<b>0.6920</b>	<b>4.4300e-003</b>	<b>0.6965</b>	<b>0.1835</b>	<b>4.0800e-003</b>	<b>0.1876</b>		<b>616.4390</b>	<b>616.4390</b>	<b>0.0204</b>		<b>616.9486</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	38.2535					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2422	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109	0.0000	281.4481	281.4481	0.0218		281.9928
<b>Total</b>	<b>38.4957</b>	<b>1.6838</b>	<b>1.8314</b>	<b>2.9700e-003</b>		<b>0.1109</b>	<b>0.1109</b>		<b>0.1109</b>	<b>0.1109</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0218</b>		<b>281.9928</b>

San Luis Ranch Project - 2019 Start - San Luis Obispo County APCD Air District, Winter

**3.7 Architectural Coating - 2020**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	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	0.3413	0.2835	2.4174	6.1900e-003	0.6920	4.4300e-003	0.6965	0.1835	4.0800e-003	0.1876		616.4390	616.4390	0.0204		616.9486
<b>Total</b>	<b>0.3413</b>	<b>0.2835</b>	<b>2.4174</b>	<b>6.1900e-003</b>	<b>0.6920</b>	<b>4.4300e-003</b>	<b>0.6965</b>	<b>0.1835</b>	<b>4.0800e-003</b>	<b>0.1876</b>		<b>616.4390</b>	<b>616.4390</b>	<b>0.0204</b>		<b>616.9486</b>

**3.7 Architectural Coating - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	38.2535					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309
<b>Total</b>	<b>38.4724</b>	<b>1.5268</b>	<b>1.8176</b>	<b>2.9700e-003</b>		<b>0.0941</b>	<b>0.0941</b>		<b>0.0941</b>	<b>0.0941</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0193</b>		<b>281.9309</b>



San Luis Ranch Project - 2019 Start - San Luis Obispo County APCD Air District, Winter

**3.7 Architectural Coating - 2021**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.3185	0.2535	2.1894	5.9800e-003	0.6920	4.2900e-003	0.6963	0.1835	3.9500e-003	0.1875		595.4297	595.4297	0.0181		595.8821
<b>Total</b>	<b>0.3185</b>	<b>0.2535</b>	<b>2.1894</b>	<b>5.9800e-003</b>	<b>0.6920</b>	<b>4.2900e-003</b>	<b>0.6963</b>	<b>0.1835</b>	<b>3.9500e-003</b>	<b>0.1875</b>		<b>595.4297</b>	<b>595.4297</b>	<b>0.0181</b>		<b>595.8821</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	38.2535					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941	0.0000	281.4481	281.4481	0.0193		281.9309
<b>Total</b>	<b>38.4724</b>	<b>1.5268</b>	<b>1.8176</b>	<b>2.9700e-003</b>		<b>0.0941</b>	<b>0.0941</b>		<b>0.0941</b>	<b>0.0941</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0193</b>		<b>281.9309</b>

San Luis Ranch Project - 2019 Start - San Luis Obispo County APCD Air District, Winter

**3.7 Architectural Coating - 2021**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.3185	0.2535	2.1894	5.9800e-003	0.6920	4.2900e-003	0.6963	0.1835	3.9500e-003	0.1875		595.4297	595.4297	0.0181		595.8821
<b>Total</b>	<b>0.3185</b>	<b>0.2535</b>	<b>2.1894</b>	<b>5.9800e-003</b>	<b>0.6920</b>	<b>4.2900e-003</b>	<b>0.6963</b>	<b>0.1835</b>	<b>3.9500e-003</b>	<b>0.1875</b>		<b>595.4297</b>	<b>595.4297</b>	<b>0.0181</b>		<b>595.8821</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

San Luis Ranch Project - 2019 Start - San Luis Obispo County APCD Air District, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	2.8125	11.6344	31.3934	0.0883	8.3620	0.0925	8.4545	2.2338	0.0868	2.3207		8,911.1736	8,911.1736	0.3636		8,920.2625
Unmitigated	2.8125	11.6344	31.3934	0.0883	8.3620	0.0925	8.4545	2.2338	0.0868	2.3207		8,911.1736	8,911.1736	0.3636		8,920.2625

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	1,002.73	1,042.13	908.17	2,528,468	2,528,468
City Park	0.00	0.00	0.00		
General Office Building	300.00	67.00	28.50	518,513	518,513
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Regional Shopping Center	221.75	259.50	131.00	309,253	309,253
Single Family Housing	91.62	95.22	82.98	231,028	231,028
Total	1,616.10	1,463.85	1,150.65	3,587,261	3,587,261

4.3 Trip Type Information

San Luis Ranch Project - 2019 Start - San Luis Obispo County APCD Air District, Winter

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
Apartments Mid Rise	13.00	5.00	5.00	35.80	21.00	43.20	86	11	3
City Park	13.00	5.00	5.00	33.00	48.00	19.00	66	28	6
General Office Building	13.00	5.00	5.00	33.00	48.00	19.00	77	19	4
Parking Lot	13.00	5.00	5.00	0.00	0.00	0.00	0	0	0
Parking Lot	13.00	5.00	5.00	0.00	0.00	0.00	0	0	0
Parking Lot	13.00	5.00	5.00	0.00	0.00	0.00	0	0	0
Regional Shopping Center	13.00	5.00	5.00	16.30	64.70	19.00	54	35	11
Single Family Housing	13.00	5.00	5.00	35.80	21.00	43.20	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	0.575581	0.029595	0.198288	0.120539	0.026172	0.006482	0.012911	0.019591	0.002354	0.001214	0.005068	0.000784	0.001422
Parking Lot	0.575581	0.029595	0.198288	0.120539	0.026172	0.006482	0.012911	0.019591	0.002354	0.001214	0.005068	0.000784	0.001422
Parking Lot	0.575581	0.029595	0.198288	0.120539	0.026172	0.006482	0.012911	0.019591	0.002354	0.001214	0.005068	0.000784	0.001422
Parking Lot	0.575581	0.029595	0.198288	0.120539	0.026172	0.006482	0.012911	0.019591	0.002354	0.001214	0.005068	0.000784	0.001422
City Park	0.575581	0.029595	0.198288	0.120539	0.026172	0.006482	0.012911	0.019591	0.002354	0.001214	0.005068	0.000784	0.001422
Apartments Mid Rise	0.575581	0.029595	0.198288	0.120539	0.026172	0.006482	0.012911	0.019591	0.002354	0.001214	0.005068	0.000784	0.001422
Single Family Housing	0.575581	0.029595	0.198288	0.120539	0.026172	0.006482	0.012911	0.019591	0.002354	0.001214	0.005068	0.000784	0.001422
Regional Shopping Center	0.575581	0.029595	0.198288	0.120539	0.026172	0.006482	0.012911	0.019591	0.002354	0.001214	0.005068	0.000784	0.001422

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Install Energy Efficient Appliances

San Luis Ranch Project - 2019 Start - San Luis Obispo County APCD Air District, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0975	0.8404	0.4100	5.3200e-003		0.0673	0.0673		0.0673	0.0673		1,063.1759	1,063.1759	0.0204	0.0195	1,069.4938
NaturalGas Unmitigated	0.0975	0.8404	0.4100	5.3200e-003		0.0673	0.0673		0.0673	0.0673		1,063.1759	1,063.1759	0.0204	0.0195	1,069.4938

San Luis Ranch Project - 2019 Start - San Luis Obispo County APCD Air District, Winter

**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					
Apartments Mid Rise	5974.27	0.0644	0.5506	0.2343	3.5100e-003		0.0445	0.0445		0.0445	0.0445		702.8547	702.8547	0.0135	0.0129	707.0314
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
General Office Building	1126.71	0.0122	0.1105	0.0928	6.6000e-004		8.4000e-003	8.4000e-003		8.4000e-003	8.4000e-003		132.5544	132.5544	2.5400e-003	2.4300e-003	133.3421
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	163.014	1.7600e-003	0.0160	0.0134	1.0000e-004		1.2100e-003	1.2100e-003		1.2100e-003	1.2100e-003		19.1781	19.1781	3.7000e-004	3.5000e-004	19.2921
Single Family Housing	1773	0.0191	0.1634	0.0695	1.0400e-003		0.0132	0.0132		0.0132	0.0132		208.5887	208.5887	4.0000e-003	3.8200e-003	209.8282
<b>Total</b>		<b>0.0975</b>	<b>0.8404</b>	<b>0.4100</b>	<b>5.3100e-003</b>		<b>0.0673</b>	<b>0.0673</b>		<b>0.0673</b>	<b>0.0673</b>		<b>1,063.1759</b>	<b>1,063.1759</b>	<b>0.0204</b>	<b>0.0195</b>	<b>1,069.4938</b>

San Luis Ranch Project - 2019 Start - San Luis Obispo County APCD Air District, Winter

**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					
Apartments Mid Rise	5.97427	0.0644	0.5506	0.2343	3.5100e-003		0.0445	0.0445		0.0445	0.0445		702.8547	702.8547	0.0135	0.0129	707.0314
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
General Office Building	1.12671	0.0122	0.1105	0.0928	6.6000e-004		8.4000e-003	8.4000e-003		8.4000e-003	8.4000e-003		132.5544	132.5544	2.5400e-003	2.4300e-003	133.3421
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	0.163014	1.7600e-003	0.0160	0.0134	1.0000e-004		1.2100e-003	1.2100e-003		1.2100e-003	1.2100e-003		19.1781	19.1781	3.7000e-004	3.5000e-004	19.2921
Single Family Housing	1.773	0.0191	0.1634	0.0695	1.0400e-003		0.0132	0.0132		0.0132	0.0132		208.5887	208.5887	4.0000e-003	3.8200e-003	209.8282
<b>Total</b>		<b>0.0975</b>	<b>0.8404</b>	<b>0.4100</b>	<b>5.3100e-003</b>		<b>0.0673</b>	<b>0.0673</b>		<b>0.0673</b>	<b>0.0673</b>		<b>1,063.1759</b>	<b>1,063.1759</b>	<b>0.0204</b>	<b>0.0195</b>	<b>1,069.4938</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

San Luis Ranch Project - 2019 Start - San Luis Obispo County APCD Air District, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	8.9027	0.2048	17.7630	9.4000e-004		0.0981	0.0981		0.0981	0.0981	0.0000	31.9519	31.9519	0.0309	0.0000	32.7231
Unmitigated	8.9027	0.2048	17.7630	9.4000e-004		0.0981	0.0981		0.0981	0.0981	0.0000	31.9519	31.9519	0.0309	0.0000	32.7231

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	2.3057					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	6.0601					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.5369	0.2048	17.7630	9.4000e-004		0.0981	0.0981		0.0981	0.0981		31.9519	31.9519	0.0309		32.7231
<b>Total</b>	<b>8.9027</b>	<b>0.2048</b>	<b>17.7630</b>	<b>9.4000e-004</b>		<b>0.0981</b>	<b>0.0981</b>		<b>0.0981</b>	<b>0.0981</b>	<b>0.0000</b>	<b>31.9519</b>	<b>31.9519</b>	<b>0.0309</b>	<b>0.0000</b>	<b>32.7231</b>



San Luis Ranch Project - 2019 Start - San Luis Obispo County APCD Air District, Winter

**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	2.3057					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	6.0601					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.5369	0.2048	17.7630	9.4000e-004		0.0981	0.0981		0.0981	0.0981		31.9519	31.9519	0.0309		32.7231
<b>Total</b>	<b>8.9027</b>	<b>0.2048</b>	<b>17.7630</b>	<b>9.4000e-004</b>		<b>0.0981</b>	<b>0.0981</b>		<b>0.0981</b>	<b>0.0981</b>	<b>0.0000</b>	<b>31.9519</b>	<b>31.9519</b>	<b>0.0309</b>	<b>0.0000</b>	<b>32.7231</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

Use Reclaimed Water

**8.0 Waste Detail**

**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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## San Luis Ranch Project - 2019 Start - San Luis Obispo County APCD Air District, Winter

**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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**11.0 Vegetation**

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San Luis Ranch Project - 2019 Start - San Luis Obispo County APCD Air District, Summary Report

**San Luis Ranch Project - 2019 Start**  
**San Luis Obispo County APCD, Summary Report**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	25.00	1000sqft	0.63	25,000.00	0
Parking Lot	1.90	Acre	1.90	82,764.00	0
Parking Lot	1.80	Acre	1.80	78,408.00	0
Parking Lot	0.70	Acre	0.70	30,492.00	0
City Park	5.80	Acre	5.80	252,648.00	0
Apartments Mid Rise	197.00	Dwelling Unit	7.20	197,000.00	563
Single Family Housing	18.00	Dwelling Unit	9.10	32,400.00	51
Regional Shopping Center	25.00	1000sqft	0.57	25,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	3.2	<b>Precipitation Freq (Days)</b>	44
<b>Climate Zone</b>	4			<b>Operational Year</b>	2022
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MW hr)</b>	641.35	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

**1.3 User Entered Comments**

Only CalEEMod defaults were used.

## San Luis Ranch Project - 2019 Start - San Luis Obispo County APCD Air District, Summary Report

## Project Characteristics -

Land Use - Land use values from buildout and phasing in Specific Plan Section 7.7. Includes portions of Phases 1, 2, 3, 5, and 6; and Dalidio improvements.

Construction Phase - No demolition in phases 1, 2, 4, 5 and 6. AC expected to overlap with half of building construction as painting would occur as buildings are finished.

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Demolition - Building sf estimated using Google Earth

Grading - Total import proportionally distributed by phase acreage.

Vehicle Trips - Trip generation rate based on Omni-Means 2016 Traffic Impact Study.

Mobile Land Use Mitigation - Trip reductions from project's density, diversity, and access to alternative transportation accounted for in trip generation rates.

Energy Mitigation - Per Specific Plan, appliances will be energy efficient.

Water Mitigation - Total outdoor water use for these land uses = 20.7 Mgal, with park at 6.9 Mgal; Park using reclaimed = 33% of total.

## 2.0 Peak Daily Emissions

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### Peak Daily Construction Emissions

#### Peak Daily Construction Emissions

## San Luis Ranch Project - 2019 Start - San Luis Obispo County APCD Air District, Summary Report

Year	Phase	Unmitigated						Mitigated					
		ROG	NOX	CO	SO2	PM10	PM2.5	ROG	NOX	CO	SO2	PM10	PM2.5
		lb/day											
2019	Demolition	3.6214 W	36.7771 W	22.8602 S	0.0424 S	2.5915 W	1.8182 W	3.6214 W	36.7771 W	22.8602 S	0.0424 S	2.5915 W	1.8182 W
2019	Site Preparation	4.4312 W	45.6555 W	22.7864 S	0.0397 S	20.6358 S	12.1781 S	4.4312 W	45.6555 W	22.7864 S	0.0397 S	20.6358 S	12.1781 S
2019	Grading	7.2923 W	135.8726 W	52.6197 W	0.2512 S	16.1808 W	7.4875 W	7.2923 W	135.8726 W	52.6197 W	0.2512 S	16.1808 W	7.4875 W
2019	Building Construction	4.7376 W	34.3959 W	34.8889 W	0.0816 S	5.3620 W	2.3855 W	4.7376 W	34.3959 W	34.8889 W	0.0816 S	5.3620 W	2.3855 W
2020	Building Construction	4.2300 W	31.2873 W	32.4335 W	0.0805 S	5.1521 W	2.1877 W	4.2300 W	31.2873 W	32.4335 W	0.0805 S	5.1521 W	2.1877 W
2021	Building Construction	3.8261 W	28.4689 W	30.6245 W	0.0792 S	4.9622 W	2.0084 W	3.8261 W	28.4689 W	30.6245 W	0.0792 S	4.9622 W	2.0084 W
2021	Paving	1.6532 W	12.9734 W	15.1368 S	0.0241 S	0.8269 S	0.6637 S	1.6532 W	12.9734 W	15.1368 S	0.0241 S	0.8269 S	0.6637 S
2020	Architectural Coating	38.8370 W	1.9673 W	4.3162 S	9.4700e-003 S	0.8074 S	0.2986 S	38.8370 W	1.9673 W	4.3162 S	9.4700e-003 S	0.8074 S	0.2986 S
2021	Architectural Coating	38.7909 W	1.7803 W	4.0740 S	9.2400e-003 S	0.7904 S	0.2816 S	38.7909 W	1.7803 W	4.0740 S	9.2400e-003 S	0.7904 S	0.2816 S
	Peak Daily Total	38.8370 W	135.8726 W	52.6197 W	0.2512 S	20.6358 S	12.1781 S	38.8370 W	135.8726 W	52.6197 W	0.2512 S	20.6358 S	12.1781 S
	Air District Threshold												
	Exceed Significance?												

**Peak Daily Operational Emissions****Peak Daily Operational Emissions**



San Luis Ranch Project - 2020 Start - San Luis Obispo County APCD Air District, Annual

**San Luis Ranch Project - 2020 Start**  
**San Luis Obispo County APCD Air District, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	25.00	1000sqft	1.30	25,000.00	0
Parking Lot	0.60	Acre	0.60	26,136.00	0
Parking Lot	1.80	Acre	1.80	78,408.00	0
City Park	2.70	Acre	2.70	117,612.00	0
Apartments Mid Rise	83.00	Dwelling Unit	4.00	83,000.00	237
Regional Shopping Center	25.00	1000sqft	0.57	25,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	3.2	<b>Precipitation Freq (Days)</b>	44
<b>Climate Zone</b>	4			<b>Operational Year</b>	2022
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MW hr)</b>	641.35	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

**1.3 User Entered Comments & Non-Default Data**

San Luis Ranch Project - 2020 Start - San Luis Obispo County APCD Air District, Annual

Project Characteristics -

Land Use - Land use values from buildout and phasing in Specific Plan Section 7.7. Includes portions of Phases 3, 5, and 6. Ag SF from Sect 3.9 of Specific Plan.

Construction Phase - No demolition. AC expected to overlap with half of building construction as painting would occur as buildings are finished.

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Demolition - Building sf estimated using Google Earth

Grading - Total import proportionally distributed by phase acreage.

Architectural Coating -

Vehicle Trips - Trip generation rate based on Omni-Means 2016 Traffic Impact Study.

Woodstoves -

Construction Off-road Equipment Mitigation -

Mobile Land Use Mitigation - Trip reductions from project's density, diversity, and access to alternative transportation accounted for in trip generation rates.

Energy Mitigation - Per Specific Plan, appliances will be energy efficient.

Water Mitigation -



## San Luis Ranch Project - 2020 Start - San Luis Obispo County APCD Air District, Annual

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	0
tblConstructionPhase	NumDays	20.00	150.00
tblGrading	MaterialImported	0.00	29,760.00
tblLandUse	BuildingSpaceSquareFeet	0.00	117,612.00
tblLandUse	GreenSpaceSquareFeet	117,612.00	0.00
tblLandUse	LotAcreage	0.57	1.30
tblLandUse	LotAcreage	2.18	4.00
tblProjectCharacteristics	OperationalYear	2018	2022
tblVehicleTrips	ST_TR	6.39	5.29
tblVehicleTrips	ST_TR	2.46	2.68
tblVehicleTrips	ST_TR	49.97	10.38
tblVehicleTrips	SU_TR	5.86	4.61
tblVehicleTrips	SU_TR	1.05	1.14
tblVehicleTrips	SU_TR	25.24	5.24
tblVehicleTrips	WD_TR	6.65	5.09
tblVehicleTrips	WD_TR	1.89	44.44
tblVehicleTrips	WD_TR	11.03	12.00
tblVehicleTrips	WD_TR	42.70	8.87

## 2.0 Emissions Summary

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San Luis Ranch Project - 2020 Start - San Luis Obispo County APCD Air District, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-1-2020	3-31-2020	2.0187	2.0187
2	4-1-2020	6-30-2020	0.9195	0.9195
3	7-1-2020	9-30-2020	0.9296	0.9296
4	10-1-2020	12-31-2020	2.1110	2.1110
5	1-1-2021	3-31-2021	2.2944	2.2944
6	4-1-2021	6-30-2021	1.1094	1.1094
		Highest	2.2944	2.2944

**2.2 Overall Operational**  
**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.3460	0.0131	1.1320	6.0000e-005		6.2500e-003	6.2500e-003		6.2500e-003	6.2500e-003	0.0000	1.8474	1.8474	1.7900e-003	0.0000	1.8920
Energy	7.4900e-003	0.0654	0.0374	4.1000e-004		5.1800e-003	5.1800e-003		5.1800e-003	5.1800e-003	0.0000	419.5645	419.5645	0.0170	4.5900e-003	421.3586
Mobile	0.2782	1.1554	3.0354	8.6400e-003	0.7880	8.9600e-003	0.7969	0.2110	8.4100e-003	0.2194	0.0000	791.3005	791.3005	0.0320	0.0000	792.1015
Waste						0.0000	0.0000		0.0000	0.0000	17.8449	0.0000	17.8449	1.0546	0.0000	44.2101
Water						0.0000	0.0000		0.0000	0.0000	3.7128	29.0972	32.8100	0.3827	9.2800e-003	45.1408
<b>Total</b>	<b>1.6317</b>	<b>1.2339</b>	<b>4.2048</b>	<b>9.1100e-003</b>	<b>0.7880</b>	<b>0.0204</b>	<b>0.8084</b>	<b>0.2110</b>	<b>0.0198</b>	<b>0.2308</b>	<b>21.5577</b>	<b>1,241.8096</b>	<b>1,263.3673</b>	<b>1.4881</b>	<b>0.0139</b>	<b>1,304.7030</b>

San Luis Ranch Project - 2020 Start - San Luis Obispo County APCD Air District, Annual

**2.2 Overall Operational**

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.3460	0.0131	1.1320	6.0000e-005		6.2500e-003	6.2500e-003		6.2500e-003	6.2500e-003	0.0000	1.8474	1.8474	1.7900e-003	0.0000	1.8920
Energy	7.4900e-003	0.0654	0.0374	4.1000e-004		5.1800e-003	5.1800e-003		5.1800e-003	5.1800e-003	0.0000	417.0013	417.0013	0.0169	4.5700e-003	418.7853
Mobile	0.2782	1.1554	3.0354	8.6400e-003	0.7880	8.9600e-003	0.7969	0.2110	8.4100e-003	0.2194	0.0000	791.3005	791.3005	0.0320	0.0000	792.1015
Waste						0.0000	0.0000		0.0000	0.0000	17.8449	0.0000	17.8449	1.0546	0.0000	44.2101
Water						0.0000	0.0000		0.0000	0.0000	3.7128	29.0972	32.8100	0.3827	9.2800e-003	45.1408
<b>Total</b>	<b>1.6317</b>	<b>1.2339</b>	<b>4.2048</b>	<b>9.1100e-003</b>	<b>0.7880</b>	<b>0.0204</b>	<b>0.8084</b>	<b>0.2110</b>	<b>0.0198</b>	<b>0.2308</b>	<b>21.5577</b>	<b>1,239.2463</b>	<b>1,260.8041</b>	<b>1.4880</b>	<b>0.0139</b>	<b>1,302.1297</b>

	ROG	NOx	CO	SO2	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	0.21	0.20	0.01	0.14	0.20

**3.0 Construction Detail**

**Construction Phase**

## San Luis Ranch Project - 2020 Start - San Luis Obispo County APCD Air District, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/1/2020	1/14/2020	5	10	
2	Grading	Grading	1/15/2020	2/25/2020	5	30	
3	Building Construction	Building Construction	2/26/2020	4/20/2021	5	300	
4	Architectural Coating	Architectural Coating	10/21/2020	5/18/2021	5	150	
5	Paving	Paving	4/21/2021	5/18/2021	5	20	

**Acres of Grading (Site Preparation Phase): 0**

**Acres of Grading (Grading Phase): 75**

**Acres of Paving: 2.4**

**Residential Indoor: 168,075; Residential Outdoor: 56,025; Non-Residential Indoor: 251,418; Non-Residential Outdoor: 83,806; Striped Parking Area: 6,273 (Architectural Coating – sqft)**

**OffRoad Equipment**

San Luis Ranch Project - 2020 Start - San Luis Obispo County APCD Air District, Annual

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38

**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
Site Preparation	7	18.00	0.00	0.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	3,720.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	169.00	53.00	0.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	34.00	0.00	0.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

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**3.2 Site Preparation - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0903	0.0000	0.0903	0.0497	0.0000	0.0497	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0204	0.2121	0.1076	1.9000e-004		0.0110	0.0110		0.0101	0.0101	0.0000	16.7153	16.7153	5.4100e-003	0.0000	16.8505
<b>Total</b>	<b>0.0204</b>	<b>0.2121</b>	<b>0.1076</b>	<b>1.9000e-004</b>	<b>0.0903</b>	<b>0.0110</b>	<b>0.1013</b>	<b>0.0497</b>	<b>0.0101</b>	<b>0.0598</b>	<b>0.0000</b>	<b>16.7153</b>	<b>16.7153</b>	<b>5.4100e-003</b>	<b>0.0000</b>	<b>16.8505</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.9000e-004	3.6000e-004	3.1000e-003	1.0000e-005	8.7000e-004	1.0000e-005	8.7000e-004	2.3000e-004	1.0000e-005	2.4000e-004	0.0000	0.7249	0.7249	2.0000e-005	0.0000	0.7255
<b>Total</b>	<b>3.9000e-004</b>	<b>3.6000e-004</b>	<b>3.1000e-003</b>	<b>1.0000e-005</b>	<b>8.7000e-004</b>	<b>1.0000e-005</b>	<b>8.7000e-004</b>	<b>2.3000e-004</b>	<b>1.0000e-005</b>	<b>2.4000e-004</b>	<b>0.0000</b>	<b>0.7249</b>	<b>0.7249</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.7255</b>

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**3.2 Site Preparation - 2020**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0903	0.0000	0.0903	0.0497	0.0000	0.0497	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0204	0.2121	0.1076	1.9000e-004		0.0110	0.0110		0.0101	0.0101	0.0000	16.7153	16.7153	5.4100e-003	0.0000	16.8505
<b>Total</b>	<b>0.0204</b>	<b>0.2121</b>	<b>0.1076</b>	<b>1.9000e-004</b>	<b>0.0903</b>	<b>0.0110</b>	<b>0.1013</b>	<b>0.0497</b>	<b>0.0101</b>	<b>0.0598</b>	<b>0.0000</b>	<b>16.7153</b>	<b>16.7153</b>	<b>5.4100e-003</b>	<b>0.0000</b>	<b>16.8505</b>

**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	3.9000e-004	3.6000e-004	3.1000e-003	1.0000e-005	8.7000e-004	1.0000e-005	8.7000e-004	2.3000e-004	1.0000e-005	2.4000e-004	0.0000	0.7249	0.7249	2.0000e-005	0.0000	0.7255
<b>Total</b>	<b>3.9000e-004</b>	<b>3.6000e-004</b>	<b>3.1000e-003</b>	<b>1.0000e-005</b>	<b>8.7000e-004</b>	<b>1.0000e-005</b>	<b>8.7000e-004</b>	<b>2.3000e-004</b>	<b>1.0000e-005</b>	<b>2.4000e-004</b>	<b>0.0000</b>	<b>0.7249</b>	<b>0.7249</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.7255</b>



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**3.3 Grading - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1328	0.0000	0.1328	0.0544	0.0000	0.0544	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0668	0.7530	0.4794	9.3000e-004		0.0326	0.0326		0.0300	0.0300	0.0000	81.7264	81.7264	0.0264	0.0000	82.3872
<b>Total</b>	<b>0.0668</b>	<b>0.7530</b>	<b>0.4794</b>	<b>9.3000e-004</b>	<b>0.1328</b>	<b>0.0326</b>	<b>0.1655</b>	<b>0.0544</b>	<b>0.0300</b>	<b>0.0844</b>	<b>0.0000</b>	<b>81.7264</b>	<b>81.7264</b>	<b>0.0264</b>	<b>0.0000</b>	<b>82.3872</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0162	0.5983	0.1300	1.4600e-003	0.0317	2.6100e-003	0.0343	8.7100e-003	2.4900e-003	0.0112	0.0000	143.0784	143.0784	8.1100e-003	0.0000	143.2811
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	1.3100e-003	1.1900e-003	0.0103	3.0000e-005	2.8900e-003	2.0000e-005	2.9100e-003	7.7000e-004	2.0000e-005	7.9000e-004	0.0000	2.4162	2.4162	8.0000e-005	0.0000	2.4182
<b>Total</b>	<b>0.0175</b>	<b>0.5994</b>	<b>0.1403</b>	<b>1.4900e-003</b>	<b>0.0346</b>	<b>2.6300e-003</b>	<b>0.0372</b>	<b>9.4800e-003</b>	<b>2.5100e-003</b>	<b>0.0120</b>	<b>0.0000</b>	<b>145.4946</b>	<b>145.4946</b>	<b>8.1900e-003</b>	<b>0.0000</b>	<b>145.6993</b>

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**3.3 Grading - 2020**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1328	0.0000	0.1328	0.0544	0.0000	0.0544	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0668	0.7530	0.4794	9.3000e-004		0.0326	0.0326		0.0300	0.0300	0.0000	81.7263	81.7263	0.0264	0.0000	82.3871
<b>Total</b>	<b>0.0668</b>	<b>0.7530</b>	<b>0.4794</b>	<b>9.3000e-004</b>	<b>0.1328</b>	<b>0.0326</b>	<b>0.1655</b>	<b>0.0544</b>	<b>0.0300</b>	<b>0.0844</b>	<b>0.0000</b>	<b>81.7263</b>	<b>81.7263</b>	<b>0.0264</b>	<b>0.0000</b>	<b>82.3871</b>

**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	0.0162	0.5983	0.1300	1.4600e-003	0.0317	2.6100e-003	0.0343	8.7100e-003	2.4900e-003	0.0112	0.0000	143.0784	143.0784	8.1100e-003	0.0000	143.2811
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	1.3100e-003	1.1900e-003	0.0103	3.0000e-005	2.8900e-003	2.0000e-005	2.9100e-003	7.7000e-004	2.0000e-005	7.9000e-004	0.0000	2.4162	2.4162	8.0000e-005	0.0000	2.4182
<b>Total</b>	<b>0.0175</b>	<b>0.5994</b>	<b>0.1403</b>	<b>1.4900e-003</b>	<b>0.0346</b>	<b>2.6300e-003</b>	<b>0.0372</b>	<b>9.4800e-003</b>	<b>2.5100e-003</b>	<b>0.0120</b>	<b>0.0000</b>	<b>145.4946</b>	<b>145.4946</b>	<b>8.1900e-003</b>	<b>0.0000</b>	<b>145.6993</b>

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**3.4 Building Construction - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2353	2.1297	1.8702	2.9900e-003		0.1240	0.1240		0.1166	0.1166	0.0000	257.0871	257.0871	0.0627	0.0000	258.6551
<b>Total</b>	<b>0.2353</b>	<b>2.1297</b>	<b>1.8702</b>	<b>2.9900e-003</b>		<b>0.1240</b>	<b>0.1240</b>		<b>0.1166</b>	<b>0.1166</b>	<b>0.0000</b>	<b>257.0871</b>	<b>257.0871</b>	<b>0.0627</b>	<b>0.0000</b>	<b>258.6551</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0219	0.6124	0.1855	1.1700e-003	0.0267	3.3400e-003	0.0301	7.7200e-003	3.1900e-003	0.0109	0.0000	113.1821	113.1821	6.8100e-003	0.0000	113.3523
Worker	0.0820	0.0745	0.6452	1.6700e-003	0.1806	1.1900e-003	0.1818	0.0480	1.0900e-003	0.0491	0.0000	151.0865	151.0865	4.9700e-003	0.0000	151.2109
<b>Total</b>	<b>0.1039</b>	<b>0.6869</b>	<b>0.8308</b>	<b>2.8400e-003</b>	<b>0.2073</b>	<b>4.5300e-003</b>	<b>0.2118</b>	<b>0.0557</b>	<b>4.2800e-003</b>	<b>0.0600</b>	<b>0.0000</b>	<b>264.2686</b>	<b>264.2686</b>	<b>0.0118</b>	<b>0.0000</b>	<b>264.5632</b>

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**3.4 Building Construction - 2020**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2353	2.1297	1.8702	2.9900e-003		0.1240	0.1240		0.1166	0.1166	0.0000	257.0868	257.0868	0.0627	0.0000	258.6548
<b>Total</b>	<b>0.2353</b>	<b>2.1297</b>	<b>1.8702</b>	<b>2.9900e-003</b>		<b>0.1240</b>	<b>0.1240</b>		<b>0.1166</b>	<b>0.1166</b>	<b>0.0000</b>	<b>257.0868</b>	<b>257.0868</b>	<b>0.0627</b>	<b>0.0000</b>	<b>258.6548</b>

**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	0.0219	0.6124	0.1855	1.1700e-003	0.0267	3.3400e-003	0.0301	7.7200e-003	3.1900e-003	0.0109	0.0000	113.1821	113.1821	6.8100e-003	0.0000	113.3523
Worker	0.0820	0.0745	0.6452	1.6700e-003	0.1806	1.1900e-003	0.1818	0.0480	1.0900e-003	0.0491	0.0000	151.0865	151.0865	4.9700e-003	0.0000	151.2109
<b>Total</b>	<b>0.1039</b>	<b>0.6869</b>	<b>0.8308</b>	<b>2.8400e-003</b>	<b>0.2073</b>	<b>4.5300e-003</b>	<b>0.2118</b>	<b>0.0557</b>	<b>4.2800e-003</b>	<b>0.0600</b>	<b>0.0000</b>	<b>264.2686</b>	<b>264.2686</b>	<b>0.0118</b>	<b>0.0000</b>	<b>264.5632</b>

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**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	tons/yr										MT/yr					
Off-Road	0.0741	0.6799	0.6464	1.0500e-003		0.0374	0.0374		0.0352	0.0352	0.0000	90.3385	90.3385	0.0218	0.0000	90.8834
<b>Total</b>	<b>0.0741</b>	<b>0.6799</b>	<b>0.6464</b>	<b>1.0500e-003</b>		<b>0.0374</b>	<b>0.0374</b>		<b>0.0352</b>	<b>0.0352</b>	<b>0.0000</b>	<b>90.3385</b>	<b>90.3385</b>	<b>0.0218</b>	<b>0.0000</b>	<b>90.8834</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.3000e-003	0.1968	0.0577	4.1000e-004	9.3900e-003	5.6000e-004	9.9500e-003	2.7100e-003	5.4000e-004	3.2500e-003	0.0000	39.5283	39.5283	2.3300e-003	0.0000	39.5866
Worker	0.0269	0.0234	0.2055	5.7000e-004	0.0635	4.0000e-004	0.0639	0.0169	3.7000e-004	0.0172	0.0000	51.2753	51.2753	1.5500e-003	0.0000	51.3141
<b>Total</b>	<b>0.0332</b>	<b>0.2202</b>	<b>0.2631</b>	<b>9.8000e-004</b>	<b>0.0728</b>	<b>9.6000e-004</b>	<b>0.0738</b>	<b>0.0196</b>	<b>9.1000e-004</b>	<b>0.0205</b>	<b>0.0000</b>	<b>90.8036</b>	<b>90.8036</b>	<b>3.8800e-003</b>	<b>0.0000</b>	<b>90.9007</b>

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**3.4 Building Construction - 2021**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0741	0.6799	0.6464	1.0500e-003		0.0374	0.0374		0.0352	0.0352	0.0000	90.3384	90.3384	0.0218	0.0000	90.8833
<b>Total</b>	<b>0.0741</b>	<b>0.6799</b>	<b>0.6464</b>	<b>1.0500e-003</b>		<b>0.0374</b>	<b>0.0374</b>		<b>0.0352</b>	<b>0.0352</b>	<b>0.0000</b>	<b>90.3384</b>	<b>90.3384</b>	<b>0.0218</b>	<b>0.0000</b>	<b>90.8833</b>

**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	6.3000e-003	0.1968	0.0577	4.1000e-004	9.3900e-003	5.6000e-004	9.9500e-003	2.7100e-003	5.4000e-004	3.2500e-003	0.0000	39.5283	39.5283	2.3300e-003	0.0000	39.5866
Worker	0.0269	0.0234	0.2055	5.7000e-004	0.0635	4.0000e-004	0.0639	0.0169	3.7000e-004	0.0172	0.0000	51.2753	51.2753	1.5500e-003	0.0000	51.3141
<b>Total</b>	<b>0.0332</b>	<b>0.2202</b>	<b>0.2631</b>	<b>9.8000e-004</b>	<b>0.0728</b>	<b>9.6000e-004</b>	<b>0.0738</b>	<b>0.0196</b>	<b>9.1000e-004</b>	<b>0.0205</b>	<b>0.0000</b>	<b>90.8036</b>	<b>90.8036</b>	<b>3.8800e-003</b>	<b>0.0000</b>	<b>90.9007</b>

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**3.5 Architectural Coating - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.1310					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.3000e-003	0.0438	0.0476	8.0000e-005		2.8800e-003	2.8800e-003		2.8800e-003	2.8800e-003	0.0000	6.6385	6.6385	5.1000e-004	0.0000	6.6513
<b>Total</b>	<b>1.1373</b>	<b>0.0438</b>	<b>0.0476</b>	<b>8.0000e-005</b>		<b>2.8800e-003</b>	<b>2.8800e-003</b>		<b>2.8800e-003</b>	<b>2.8800e-003</b>	<b>0.0000</b>	<b>6.6385</b>	<b>6.6385</b>	<b>5.1000e-004</b>	<b>0.0000</b>	<b>6.6513</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.8700e-003	3.5100e-003	0.0304	8.0000e-005	8.5100e-003	6.0000e-005	8.5700e-003	2.2600e-003	5.0000e-005	2.3100e-003	0.0000	7.1198	7.1198	2.3000e-004	0.0000	7.1257
<b>Total</b>	<b>3.8700e-003</b>	<b>3.5100e-003</b>	<b>0.0304</b>	<b>8.0000e-005</b>	<b>8.5100e-003</b>	<b>6.0000e-005</b>	<b>8.5700e-003</b>	<b>2.2600e-003</b>	<b>5.0000e-005</b>	<b>2.3100e-003</b>	<b>0.0000</b>	<b>7.1198</b>	<b>7.1198</b>	<b>2.3000e-004</b>	<b>0.0000</b>	<b>7.1257</b>

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**3.5 Architectural Coating - 2020**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.1310					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.3000e-003	0.0438	0.0476	8.0000e-005		2.8800e-003	2.8800e-003		2.8800e-003	2.8800e-003	0.0000	6.6385	6.6385	5.1000e-004	0.0000	6.6513
<b>Total</b>	<b>1.1373</b>	<b>0.0438</b>	<b>0.0476</b>	<b>8.0000e-005</b>		<b>2.8800e-003</b>	<b>2.8800e-003</b>		<b>2.8800e-003</b>	<b>2.8800e-003</b>	<b>0.0000</b>	<b>6.6385</b>	<b>6.6385</b>	<b>5.1000e-004</b>	<b>0.0000</b>	<b>6.6513</b>

**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	3.8700e-003	3.5100e-003	0.0304	8.0000e-005	8.5100e-003	6.0000e-005	8.5700e-003	2.2600e-003	5.0000e-005	2.3100e-003	0.0000	7.1198	7.1198	2.3000e-004	0.0000	7.1257
<b>Total</b>	<b>3.8700e-003</b>	<b>3.5100e-003</b>	<b>0.0304</b>	<b>8.0000e-005</b>	<b>8.5100e-003</b>	<b>6.0000e-005</b>	<b>8.5700e-003</b>	<b>2.2600e-003</b>	<b>5.0000e-005</b>	<b>2.3100e-003</b>	<b>0.0000</b>	<b>7.1198</b>	<b>7.1198</b>	<b>2.3000e-004</b>	<b>0.0000</b>	<b>7.1257</b>



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**3.5 Architectural Coating - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	2.1314					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0107	0.0748	0.0891	1.5000e-004		4.6100e-003	4.6100e-003		4.6100e-003	4.6100e-003	0.0000	12.5109	12.5109	8.6000e-004	0.0000	12.5324
<b>Total</b>	<b>2.1422</b>	<b>0.0748</b>	<b>0.0891</b>	<b>1.5000e-004</b>		<b>4.6100e-003</b>	<b>4.6100e-003</b>		<b>4.6100e-003</b>	<b>4.6100e-003</b>	<b>0.0000</b>	<b>12.5109</b>	<b>12.5109</b>	<b>8.6000e-004</b>	<b>0.0000</b>	<b>12.5324</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.7900e-003	5.9200e-003	0.0519	1.4000e-004	0.0160	1.0000e-004	0.0161	4.2600e-003	9.0000e-005	4.3600e-003	0.0000	12.9608	12.9608	3.9000e-004	0.0000	12.9706
<b>Total</b>	<b>6.7900e-003</b>	<b>5.9200e-003</b>	<b>0.0519</b>	<b>1.4000e-004</b>	<b>0.0160</b>	<b>1.0000e-004</b>	<b>0.0161</b>	<b>4.2600e-003</b>	<b>9.0000e-005</b>	<b>4.3600e-003</b>	<b>0.0000</b>	<b>12.9608</b>	<b>12.9608</b>	<b>3.9000e-004</b>	<b>0.0000</b>	<b>12.9706</b>

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**3.5 Architectural Coating - 2021**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	2.1314					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0107	0.0748	0.0891	1.5000e-004		4.6100e-003	4.6100e-003		4.6100e-003	4.6100e-003	0.0000	12.5109	12.5109	8.6000e-004	0.0000	12.5324
<b>Total</b>	<b>2.1422</b>	<b>0.0748</b>	<b>0.0891</b>	<b>1.5000e-004</b>		<b>4.6100e-003</b>	<b>4.6100e-003</b>		<b>4.6100e-003</b>	<b>4.6100e-003</b>	<b>0.0000</b>	<b>12.5109</b>	<b>12.5109</b>	<b>8.6000e-004</b>	<b>0.0000</b>	<b>12.5324</b>

**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	6.7900e-003	5.9200e-003	0.0519	1.4000e-004	0.0160	1.0000e-004	0.0161	4.2600e-003	9.0000e-005	4.3600e-003	0.0000	12.9608	12.9608	3.9000e-004	0.0000	12.9706
<b>Total</b>	<b>6.7900e-003</b>	<b>5.9200e-003</b>	<b>0.0519</b>	<b>1.4000e-004</b>	<b>0.0160</b>	<b>1.0000e-004</b>	<b>0.0161</b>	<b>4.2600e-003</b>	<b>9.0000e-005</b>	<b>4.3600e-003</b>	<b>0.0000</b>	<b>12.9608</b>	<b>12.9608</b>	<b>3.9000e-004</b>	<b>0.0000</b>	<b>12.9706</b>

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**3.6 Paving - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0126	0.1292	0.1465	2.3000e-004		6.7800e-003	6.7800e-003		6.2400e-003	6.2400e-003	0.0000	20.0235	20.0235	6.4800e-003	0.0000	20.1854
Paving	3.1400e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0157</b>	<b>0.1292</b>	<b>0.1465</b>	<b>2.3000e-004</b>		<b>6.7800e-003</b>	<b>6.7800e-003</b>		<b>6.2400e-003</b>	<b>6.2400e-003</b>	<b>0.0000</b>	<b>20.0235</b>	<b>20.0235</b>	<b>6.4800e-003</b>	<b>0.0000</b>	<b>20.1854</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.1000e-004	5.3000e-004	4.6800e-003	1.0000e-005	1.4400e-003	1.0000e-005	1.4500e-003	3.8000e-004	1.0000e-005	3.9000e-004	0.0000	1.1669	1.1669	4.0000e-005	0.0000	1.1678
<b>Total</b>	<b>6.1000e-004</b>	<b>5.3000e-004</b>	<b>4.6800e-003</b>	<b>1.0000e-005</b>	<b>1.4400e-003</b>	<b>1.0000e-005</b>	<b>1.4500e-003</b>	<b>3.8000e-004</b>	<b>1.0000e-005</b>	<b>3.9000e-004</b>	<b>0.0000</b>	<b>1.1669</b>	<b>1.1669</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>1.1678</b>

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**3.6 Paving - 2021**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0126	0.1292	0.1465	2.3000e-004		6.7800e-003	6.7800e-003		6.2400e-003	6.2400e-003	0.0000	20.0235	20.0235	6.4800e-003	0.0000	20.1854
Paving	3.1400e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0157</b>	<b>0.1292</b>	<b>0.1465</b>	<b>2.3000e-004</b>		<b>6.7800e-003</b>	<b>6.7800e-003</b>		<b>6.2400e-003</b>	<b>6.2400e-003</b>	<b>0.0000</b>	<b>20.0235</b>	<b>20.0235</b>	<b>6.4800e-003</b>	<b>0.0000</b>	<b>20.1854</b>

**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	6.1000e-004	5.3000e-004	4.6800e-003	1.0000e-005	1.4400e-003	1.0000e-005	1.4500e-003	3.8000e-004	1.0000e-005	3.9000e-004	0.0000	1.1669	1.1669	4.0000e-005	0.0000	1.1678
<b>Total</b>	<b>6.1000e-004</b>	<b>5.3000e-004</b>	<b>4.6800e-003</b>	<b>1.0000e-005</b>	<b>1.4400e-003</b>	<b>1.0000e-005</b>	<b>1.4500e-003</b>	<b>3.8000e-004</b>	<b>1.0000e-005</b>	<b>3.9000e-004</b>	<b>0.0000</b>	<b>1.1669</b>	<b>1.1669</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>1.1678</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.2782	1.1554	3.0354	8.6400e-003	0.7880	8.9600e-003	0.7969	0.2110	8.4100e-003	0.2194	0.0000	791.3005	791.3005	0.0320	0.0000	792.1015
Unmitigated	0.2782	1.1554	3.0354	8.6400e-003	0.7880	8.9600e-003	0.7969	0.2110	8.4100e-003	0.2194	0.0000	791.3005	791.3005	0.0320	0.0000	792.1015

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	422.47	439.07	382.63	1,065,294	1,065,294
City Park	119.99	61.43	45.20	205,134	205,134
General Office Building	300.00	67.00	28.50	518,513	518,513
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Regional Shopping Center	221.75	259.50	131.00	309,253	309,253
Total	1,064.21	827.00	587.33	2,098,193	2,098,193

**4.3 Trip Type Information**

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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
Apartments Mid Rise	13.00	5.00	5.00	35.80	21.00	43.20	86	11	3
City Park	13.00	5.00	5.00	33.00	48.00	19.00	66	28	6
General Office Building	13.00	5.00	5.00	33.00	48.00	19.00	77	19	4
Parking Lot	13.00	5.00	5.00	0.00	0.00	0.00	0	0	0
Parking Lot	13.00	5.00	5.00	0.00	0.00	0.00	0	0	0
Regional Shopping Center	13.00	5.00	5.00	16.30	64.70	19.00	54	35	11

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	0.575581	0.029595	0.198288	0.120539	0.026172	0.006482	0.012911	0.019591	0.002354	0.001214	0.005068	0.000784	0.001422
Parking Lot	0.575581	0.029595	0.198288	0.120539	0.026172	0.006482	0.012911	0.019591	0.002354	0.001214	0.005068	0.000784	0.001422
Parking Lot	0.575581	0.029595	0.198288	0.120539	0.026172	0.006482	0.012911	0.019591	0.002354	0.001214	0.005068	0.000784	0.001422
City Park	0.575581	0.029595	0.198288	0.120539	0.026172	0.006482	0.012911	0.019591	0.002354	0.001214	0.005068	0.000784	0.001422
Apartments Mid Rise	0.575581	0.029595	0.198288	0.120539	0.026172	0.006482	0.012911	0.019591	0.002354	0.001214	0.005068	0.000784	0.001422
Regional Shopping Center	0.575581	0.029595	0.198288	0.120539	0.026172	0.006482	0.012911	0.019591	0.002354	0.001214	0.005068	0.000784	0.001422

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Install Energy Efficient Appliances

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	342.8532	342.8532	0.0155	3.2100e-003	344.1966
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	345.4164	345.4164	0.0156	3.2300e-003	346.7699
NaturalGas Mitigated	7.4900e-003	0.0654	0.0374	4.1000e-004		5.1800e-003	5.1800e-003		5.1800e-003	5.1800e-003	0.0000	74.1481	74.1481	1.4200e-003	1.3600e-003	74.5887
NaturalGas Unmitigated	7.4900e-003	0.0654	0.0374	4.1000e-004		5.1800e-003	5.1800e-003		5.1800e-003	5.1800e-003	0.0000	74.1481	74.1481	1.4200e-003	1.3600e-003	74.5887

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**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	918733	4.9500e-003	0.0423	0.0180	2.7000e-004		3.4200e-003	3.4200e-003		3.4200e-003	3.4200e-003	0.0000	49.0271	49.0271	9.4000e-004	9.0000e-004	49.3184
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
General Office Building	411250	2.2200e-003	0.0202	0.0169	1.2000e-004		1.5300e-003	1.5300e-003		1.5300e-003	1.5300e-003	0.0000	21.9459	21.9459	4.2000e-004	4.0000e-004	22.0763
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	59500	3.2000e-004	2.9200e-003	2.4500e-003	2.0000e-005		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004	0.0000	3.1752	3.1752	6.0000e-005	6.0000e-005	3.1940
<b>Total</b>		<b>7.4900e-003</b>	<b>0.0654</b>	<b>0.0374</b>	<b>4.1000e-004</b>		<b>5.1700e-003</b>	<b>5.1700e-003</b>		<b>5.1700e-003</b>	<b>5.1700e-003</b>	<b>0.0000</b>	<b>74.1481</b>	<b>74.1481</b>	<b>1.4200e-003</b>	<b>1.3600e-003</b>	<b>74.5887</b>



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**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	tons/yr										MT/yr					
Apartments Mid Rise	918733	4.9500e-003	0.0423	0.0180	2.7000e-004		3.4200e-003	3.4200e-003		3.4200e-003	3.4200e-003	0.0000	49.0271	49.0271	9.4000e-004	9.0000e-004	49.3184
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
General Office Building	411250	2.2200e-003	0.0202	0.0169	1.2000e-004		1.5300e-003	1.5300e-003		1.5300e-003	1.5300e-003	0.0000	21.9459	21.9459	4.2000e-004	4.0000e-004	22.0763
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	59500	3.2000e-004	2.9200e-003	2.4500e-003	2.0000e-005		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004	0.0000	3.1752	3.1752	6.0000e-005	6.0000e-005	3.1940
<b>Total</b>		<b>7.4900e-003</b>	<b>0.0654</b>	<b>0.0374</b>	<b>4.1000e-004</b>		<b>5.1700e-003</b>	<b>5.1700e-003</b>		<b>5.1700e-003</b>	<b>5.1700e-003</b>	<b>0.0000</b>	<b>74.1481</b>	<b>74.1481</b>	<b>1.4200e-003</b>	<b>1.3600e-003</b>	<b>74.5887</b>

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**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	366111	106.5058	4.8200e-003	1.0000e-003	106.9231
City Park	0	0.0000	0.0000	0.0000	0.0000
General Office Building	455500	132.5102	5.9900e-003	1.2400e-003	133.0294
Parking Lot	22999.7	6.6909	3.0000e-004	6.0000e-005	6.7171
Parking Lot	68999	20.0726	9.1000e-004	1.9000e-004	20.1513
Regional Shopping Center	273750	79.6370	3.6000e-003	7.5000e-004	79.9491
<b>Total</b>		<b>345.4164</b>	<b>0.0156</b>	<b>3.2400e-003</b>	<b>346.7699</b>

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**5.3 Energy by Land Use - Electricity****Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	357299	103.9425	4.7000e-003	9.7000e-004	104.3498
City Park	0	0.0000	0.0000	0.0000	0.0000
General Office Building	455500	132.5102	5.9900e-003	1.2400e-003	133.0294
Parking Lot	22999.7	6.6909	3.0000e-004	6.0000e-005	6.7171
Parking Lot	68999	20.0726	9.1000e-004	1.9000e-004	20.1513
Regional Shopping Center	273750	79.6370	3.6000e-003	7.5000e-004	79.9491
<b>Total</b>		<b>342.8532</b>	<b>0.0155</b>	<b>3.2100e-003</b>	<b>344.1966</b>

**6.0 Area Detail****6.1 Mitigation Measures Area**

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1.3460	0.0131	1.1320	6.0000e-005		6.2500e-003	6.2500e-003		6.2500e-003	6.2500e-003	0.0000	1.8474	1.8474	1.7900e-003	0.0000	1.8920
Unmitigated	1.3460	0.0131	1.1320	6.0000e-005		6.2500e-003	6.2500e-003		6.2500e-003	6.2500e-003	0.0000	1.8474	1.8474	1.7900e-003	0.0000	1.8920

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.3262					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.9855					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0343	0.0131	1.1320	6.0000e-005		6.2500e-003	6.2500e-003		6.2500e-003	6.2500e-003	0.0000	1.8474	1.8474	1.7900e-003	0.0000	1.8920
<b>Total</b>	<b>1.3460</b>	<b>0.0131</b>	<b>1.1320</b>	<b>6.0000e-005</b>		<b>6.2500e-003</b>	<b>6.2500e-003</b>		<b>6.2500e-003</b>	<b>6.2500e-003</b>	<b>0.0000</b>	<b>1.8474</b>	<b>1.8474</b>	<b>1.7900e-003</b>	<b>0.0000</b>	<b>1.8920</b>

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**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.3262					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.9855					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0343	0.0131	1.1320	6.0000e-005		6.2500e-003	6.2500e-003		6.2500e-003	6.2500e-003	0.0000	1.8474	1.8474	1.7900e-003	0.0000	1.8920
<b>Total</b>	<b>1.3460</b>	<b>0.0131</b>	<b>1.1320</b>	<b>6.0000e-005</b>		<b>6.2500e-003</b>	<b>6.2500e-003</b>		<b>6.2500e-003</b>	<b>6.2500e-003</b>	<b>0.0000</b>	<b>1.8474</b>	<b>1.8474</b>	<b>1.7900e-003</b>	<b>0.0000</b>	<b>1.8920</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	32.8100	0.3827	9.2800e-003	45.1408
Unmitigated	32.8100	0.3827	9.2800e-003	45.1408

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	5.40778 / 3.40926	13.6994	0.1768	4.2700e-003	19.3916
City Park	0 / 3.217	3.2755	1.5000e-004	3.0000e-005	3.2884
General Office Building	4.44334 / 2.72334	11.1769	0.1452	3.5100e-003	15.8536
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	1.85181 / 1.13498	4.6581	0.0605	1.4600e-003	6.6072
<b>Total</b>		<b>32.8100</b>	<b>0.3827</b>	<b>9.2700e-003</b>	<b>45.1407</b>

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**7.2 Water by Land Use**

**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	5.40778 / 3.40926	13.6994	0.1768	4.2700e-003	19.3916
City Park	0 / 3.217	3.2755	1.5000e-004	3.0000e-005	3.2884
General Office Building	4.44334 / 2.72334	11.1769	0.1452	3.5100e-003	15.8536
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	1.85181 / 1.13498	4.6581	0.0605	1.4600e-003	6.6072
<b>Total</b>		<b>32.8100</b>	<b>0.3827</b>	<b>9.2700e-003</b>	<b>45.1407</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

San Luis Ranch Project - 2020 Start - San Luis Obispo County APCD Air District, Annual

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	17.8449	1.0546	0.0000	44.2101
Unmitigated	17.8449	1.0546	0.0000	44.2101

**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	38.18	7.7502	0.4580	0.0000	19.2008
City Park	0.23	0.0467	2.7600e-003	0.0000	0.1157
General Office Building	23.25	4.7195	0.2789	0.0000	11.6925
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	26.25	5.3285	0.3149	0.0000	13.2012
<b>Total</b>		<b>17.8449</b>	<b>1.0546</b>	<b>0.0000</b>	<b>44.2101</b>



San Luis Ranch Project - 2020 Start - San Luis Obispo County APCD Air District, Annual

**8.2 Waste by Land Use**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	38.18	7.7502	0.4580	0.0000	19.2008
City Park	0.23	0.0467	2.7600e-003	0.0000	0.1157
General Office Building	23.25	4.7195	0.2789	0.0000	11.6925
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	26.25	5.3285	0.3149	0.0000	13.2012
<b>Total</b>		<b>17.8449</b>	<b>1.0546</b>	<b>0.0000</b>	<b>44.2101</b>

**9.0 Operational Offroad**

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

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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**11.0 Vegetation**

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San Luis Ranch Project - 2020 Start - San Luis Obispo County APCD Air District, Summer

**San Luis Ranch Project - 2020 Start**  
**San Luis Obispo County APCD Air District, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	25.00	1000sqft	1.30	25,000.00	0
Parking Lot	0.60	Acre	0.60	26,136.00	0
Parking Lot	1.80	Acre	1.80	78,408.00	0
City Park	2.70	Acre	2.70	117,612.00	0
Apartments Mid Rise	83.00	Dwelling Unit	4.00	83,000.00	237
Regional Shopping Center	25.00	1000sqft	0.57	25,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	3.2	<b>Precipitation Freq (Days)</b>	44
<b>Climate Zone</b>	4			<b>Operational Year</b>	2022
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MW hr)</b>	641.35	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

**1.3 User Entered Comments & Non-Default Data**

San Luis Ranch Project - 2020 Start - San Luis Obispo County APCD Air District, Summer

Project Characteristics -

Land Use - Land use values from buildout and phasing in Specific Plan Section 7.7. Includes portions of Phases 3, 5, and 6. Ag SF from Sect 3.9 of Specific Plan.

Construction Phase - No demolition. AC expected to overlap with half of building construction as painting would occur as buildings are finished.

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Demolition - Building sf estimated using Google Earth

Grading - Total import proportionally distributed by phase acreage.

Architectural Coating -

Vehicle Trips - Trip generation rate based on Omni-Means 2016 Traffic Impact Study.

Woodstoves -

Construction Off-road Equipment Mitigation -

Mobile Land Use Mitigation - Trip reductions from project's density, diversity, and access to alternative transportation accounted for in trip generation rates.

Energy Mitigation - Per Specific Plan, appliances will be energy efficient.

Water Mitigation -

## San Luis Ranch Project - 2020 Start - San Luis Obispo County APCD Air District, Summer

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	0
tblConstructionPhase	NumDays	20.00	150.00
tblGrading	MaterialImported	0.00	29,760.00
tblLandUse	BuildingSpaceSquareFeet	0.00	117,612.00
tblLandUse	GreenSpaceSquareFeet	117,612.00	0.00
tblLandUse	LotAcreage	0.57	1.30
tblLandUse	LotAcreage	2.18	4.00
tblProjectCharacteristics	OperationalYear	2018	2022
tblVehicleTrips	ST_TR	6.39	5.29
tblVehicleTrips	ST_TR	2.46	2.68
tblVehicleTrips	ST_TR	49.97	10.38
tblVehicleTrips	SU_TR	5.86	4.61
tblVehicleTrips	SU_TR	1.05	1.14
tblVehicleTrips	SU_TR	25.24	5.24
tblVehicleTrips	WD_TR	6.65	5.09
tblVehicleTrips	WD_TR	1.89	44.44
tblVehicleTrips	WD_TR	11.03	12.00
tblVehicleTrips	WD_TR	42.70	8.87

## 2.0 Emissions Summary

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San Luis Ranch Project - 2020 Start - San Luis Obispo County APCD Air District, Summer

**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	7.3953	0.0791	6.8606	3.6000e-004		0.0379	0.0379		0.0379	0.0379	0.0000	12.3419	12.3419	0.0119	0.0000	12.6401
Energy	0.0411	0.3584	0.2049	2.2400e-003		0.0284	0.0284		0.0284	0.0284		447.8591	447.8591	8.5800e-003	8.2100e-003	450.5205
Mobile	1.8744	7.0819	19.1218	0.0566	5.1194	0.0566	5.1760	1.3676	0.0531	1.4207		5,707.6178	5,707.6178	0.2233		5,713.2001
<b>Total</b>	<b>9.3108</b>	<b>7.5195</b>	<b>26.1874</b>	<b>0.0592</b>	<b>5.1194</b>	<b>0.1229</b>	<b>5.2423</b>	<b>1.3676</b>	<b>0.1194</b>	<b>1.4870</b>	<b>0.0000</b>	<b>6,167.8188</b>	<b>6,167.8188</b>	<b>0.2438</b>	<b>8.2100e-003</b>	<b>6,176.3607</b>

**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	7.3953	0.0791	6.8606	3.6000e-004		0.0379	0.0379		0.0379	0.0379	0.0000	12.3419	12.3419	0.0119	0.0000	12.6401
Energy	0.0411	0.3584	0.2049	2.2400e-003		0.0284	0.0284		0.0284	0.0284		447.8591	447.8591	8.5800e-003	8.2100e-003	450.5205
Mobile	1.8744	7.0819	19.1218	0.0566	5.1194	0.0566	5.1760	1.3676	0.0531	1.4207		5,707.6178	5,707.6178	0.2233		5,713.2001
<b>Total</b>	<b>9.3108</b>	<b>7.5195</b>	<b>26.1874</b>	<b>0.0592</b>	<b>5.1194</b>	<b>0.1229</b>	<b>5.2423</b>	<b>1.3676</b>	<b>0.1194</b>	<b>1.4870</b>	<b>0.0000</b>	<b>6,167.8188</b>	<b>6,167.8188</b>	<b>0.2438</b>	<b>8.2100e-003</b>	<b>6,176.3607</b>

## San Luis Ranch Project - 2020 Start - San Luis Obispo County APCD Air District, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

### 3.0 Construction Detail

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#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/1/2020	1/14/2020	5	10	
2	Grading	Grading	1/15/2020	2/25/2020	5	30	
3	Building Construction	Building Construction	2/26/2020	4/20/2021	5	300	
4	Architectural Coating	Architectural Coating	10/21/2020	5/18/2021	5	150	
5	Paving	Paving	4/21/2021	5/18/2021	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 75

Acres of Paving: 2.4

Residential Indoor: 168,075; Residential Outdoor: 56,025; Non-Residential Indoor: 251,418; Non-Residential Outdoor: 83,806; Striped Parking Area: 6,273 (Architectural Coating – sqft)

#### OffRoad Equipment



San Luis Ranch Project - 2020 Start - San Luis Obispo County APCD Air District, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38

**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
Site Preparation	7	18.00	0.00	0.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	3,720.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	169.00	53.00	0.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	34.00	0.00	0.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

San Luis Ranch Project - 2020 Start - San Luis Obispo County APCD Air District, Summer

**3.2 Site Preparation - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.0765	42.4173	21.5136	0.0380		2.1974	2.1974		2.0216	2.0216		3,685.1016	3,685.1016	1.1918		3,714.8975
<b>Total</b>	<b>4.0765</b>	<b>42.4173</b>	<b>21.5136</b>	<b>0.0380</b>	<b>18.0663</b>	<b>2.1974</b>	<b>20.2637</b>	<b>9.9307</b>	<b>2.0216</b>	<b>11.9523</b>		<b>3,685.1016</b>	<b>3,685.1016</b>	<b>1.1918</b>		<b>3,714.8975</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0770	0.0642	0.6389	1.6700e-003	0.1780	1.1400e-003	0.1791	0.0472	1.0500e-003	0.0483		166.2997	166.2997	5.4200e-003		166.4352
<b>Total</b>	<b>0.0770</b>	<b>0.0642</b>	<b>0.6389</b>	<b>1.6700e-003</b>	<b>0.1780</b>	<b>1.1400e-003</b>	<b>0.1791</b>	<b>0.0472</b>	<b>1.0500e-003</b>	<b>0.0483</b>		<b>166.2997</b>	<b>166.2997</b>	<b>5.4200e-003</b>		<b>166.4352</b>

San Luis Ranch Project - 2020 Start - San Luis Obispo County APCD Air District, Summer

**3.2 Site Preparation - 2020**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.0765	42.4173	21.5136	0.0380		2.1974	2.1974		2.0216	2.0216	0.0000	3,685.1016	3,685.1016	1.1918		3,714.8975
<b>Total</b>	<b>4.0765</b>	<b>42.4173</b>	<b>21.5136</b>	<b>0.0380</b>	<b>18.0663</b>	<b>2.1974</b>	<b>20.2637</b>	<b>9.9307</b>	<b>2.0216</b>	<b>11.9523</b>	<b>0.0000</b>	<b>3,685.1016</b>	<b>3,685.1016</b>	<b>1.1918</b>		<b>3,714.8975</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0770	0.0642	0.6389	1.6700e-003	0.1780	1.1400e-003	0.1791	0.0472	1.0500e-003	0.0483		166.2997	166.2997	5.4200e-003		166.4352
<b>Total</b>	<b>0.0770</b>	<b>0.0642</b>	<b>0.6389</b>	<b>1.6700e-003</b>	<b>0.1780</b>	<b>1.1400e-003</b>	<b>0.1791</b>	<b>0.0472</b>	<b>1.0500e-003</b>	<b>0.0483</b>		<b>166.2997</b>	<b>166.2997</b>	<b>5.4200e-003</b>		<b>166.4352</b>

San Luis Ranch Project - 2020 Start - San Luis Obispo County APCD Air District, Summer

**3.3 Grading - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.8559	0.0000	8.8559	3.6242	0.0000	3.6242			0.0000			0.0000
Off-Road	4.4501	50.1975	31.9583	0.0620		2.1739	2.1739		2.0000	2.0000		6,005.8653	6,005.8653	1.9424		6,054.4257
<b>Total</b>	<b>4.4501</b>	<b>50.1975</b>	<b>31.9583</b>	<b>0.0620</b>	<b>8.8559</b>	<b>2.1739</b>	<b>11.0298</b>	<b>3.6242</b>	<b>2.0000</b>	<b>5.6241</b>		<b>6,005.8653</b>	<b>6,005.8653</b>	<b>1.9424</b>		<b>6,054.4257</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.0639	39.1193	8.4291	0.0981	2.1637	0.1722	2.3359	0.5927	0.1647	0.7575		10,579.7302	10,579.7302	0.5871		10,594.4088
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	0.0855	0.0714	0.7099	1.8600e-003	0.1977	1.2600e-003	0.1990	0.0524	1.1700e-003	0.0536		184.7775	184.7775	6.0200e-003		184.9280
<b>Total</b>	<b>1.1495</b>	<b>39.1907</b>	<b>9.1390</b>	<b>0.1000</b>	<b>2.3614</b>	<b>0.1735</b>	<b>2.5348</b>	<b>0.6452</b>	<b>0.1659</b>	<b>0.8111</b>		<b>10,764.5076</b>	<b>10,764.5076</b>	<b>0.5932</b>		<b>10,779.3368</b>

San Luis Ranch Project - 2020 Start - San Luis Obispo County APCD Air District, Summer

**3.3 Grading - 2020**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.8559	0.0000	8.8559	3.6242	0.0000	3.6242			0.0000			0.0000
Off-Road	4.4501	50.1975	31.9583	0.0620		2.1739	2.1739		2.0000	2.0000	0.0000	6,005.8653	6,005.8653	1.9424		6,054.4257
<b>Total</b>	<b>4.4501</b>	<b>50.1975</b>	<b>31.9583</b>	<b>0.0620</b>	<b>8.8559</b>	<b>2.1739</b>	<b>11.0298</b>	<b>3.6242</b>	<b>2.0000</b>	<b>5.6241</b>	<b>0.0000</b>	<b>6,005.8653</b>	<b>6,005.8653</b>	<b>1.9424</b>		<b>6,054.4257</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.0639	39.1193	8.4291	0.0981	2.1637	0.1722	2.3359	0.5927	0.1647	0.7575		10,579.7302	10,579.7302	0.5871		10,594.4088
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	0.0855	0.0714	0.7099	1.8600e-003	0.1977	1.2600e-003	0.1990	0.0524	1.1700e-003	0.0536		184.7775	184.7775	6.0200e-003		184.9280
<b>Total</b>	<b>1.1495</b>	<b>39.1907</b>	<b>9.1390</b>	<b>0.1000</b>	<b>2.3614</b>	<b>0.1735</b>	<b>2.5348</b>	<b>0.6452</b>	<b>0.1659</b>	<b>0.8111</b>		<b>10,764.5076</b>	<b>10,764.5076</b>	<b>0.5932</b>		<b>10,779.3368</b>

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**3.4 Building Construction - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503		2,553.0631	2,553.0631	0.6229		2,568.6345
<b>Total</b>	<b>2.1198</b>	<b>19.1860</b>	<b>16.8485</b>	<b>0.0269</b>		<b>1.1171</b>	<b>1.1171</b>		<b>1.0503</b>	<b>1.0503</b>		<b>2,553.0631</b>	<b>2,553.0631</b>	<b>0.6229</b>		<b>2,568.6345</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1922	5.4698	1.5675	0.0107	0.2460	0.0297	0.2757	0.0709	0.0284	0.0993		1,138.4488	1,138.4488	0.0655		1,140.0854
Worker	0.7228	0.6030	5.9989	0.0157	1.6708	0.0107	1.6814	0.4431	9.8600e-003	0.4530		1,561.3695	1,561.3695	0.0509		1,562.6419
<b>Total</b>	<b>0.9150</b>	<b>6.0728</b>	<b>7.5664</b>	<b>0.0264</b>	<b>1.9168</b>	<b>0.0404</b>	<b>1.9572</b>	<b>0.5140</b>	<b>0.0383</b>	<b>0.5522</b>		<b>2,699.8183</b>	<b>2,699.8183</b>	<b>0.1164</b>		<b>2,702.7273</b>

San Luis Ranch Project - 2020 Start - San Luis Obispo County APCD Air District, Summer

**3.4 Building Construction - 2020**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503	0.0000	2,553.063 1	2,553.063 1	0.6229		2,568.634 5
<b>Total</b>	<b>2.1198</b>	<b>19.1860</b>	<b>16.8485</b>	<b>0.0269</b>		<b>1.1171</b>	<b>1.1171</b>		<b>1.0503</b>	<b>1.0503</b>	<b>0.0000</b>	<b>2,553.063 1</b>	<b>2,553.063 1</b>	<b>0.6229</b>		<b>2,568.634 5</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1922	5.4698	1.5675	0.0107	0.2460	0.0297	0.2757	0.0709	0.0284	0.0993		1,138.448 8	1,138.448 8	0.0655		1,140.085 4
Worker	0.7228	0.6030	5.9989	0.0157	1.6708	0.0107	1.6814	0.4431	9.8600e-003	0.4530		1,561.369 5	1,561.369 5	0.0509		1,562.641 9
<b>Total</b>	<b>0.9150</b>	<b>6.0728</b>	<b>7.5664</b>	<b>0.0264</b>	<b>1.9168</b>	<b>0.0404</b>	<b>1.9572</b>	<b>0.5140</b>	<b>0.0383</b>	<b>0.5522</b>		<b>2,699.818 3</b>	<b>2,699.818 3</b>	<b>0.1164</b>		<b>2,702.727 3</b>

San Luis Ranch Project - 2020 Start - San Luis Obispo County APCD Air District, Summer

**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										lb/day					
Off-Road	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013		2,553.3639	2,553.3639	0.6160		2,568.7643
<b>Total</b>	<b>1.9009</b>	<b>17.4321</b>	<b>16.5752</b>	<b>0.0269</b>		<b>0.9586</b>	<b>0.9586</b>		<b>0.9013</b>	<b>0.9013</b>		<b>2,553.3639</b>	<b>2,553.3639</b>	<b>0.6160</b>		<b>2,568.7643</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1571	5.0096	1.3823	0.0106	0.2461	0.0141	0.2601	0.0709	0.0134	0.0843		1,131.8490	1,131.8490	0.0638		1,133.4434
Worker	0.6732	0.5393	5.4477	0.0151	1.6708	0.0104	1.6811	0.4431	9.5400e-003	0.4527		1,508.1598	1,508.1598	0.0453		1,509.2921
<b>Total</b>	<b>0.8303</b>	<b>5.5489</b>	<b>6.8300</b>	<b>0.0258</b>	<b>1.9168</b>	<b>0.0244</b>	<b>1.9412</b>	<b>0.5140</b>	<b>0.0230</b>	<b>0.5370</b>		<b>2,640.0088</b>	<b>2,640.0088</b>	<b>0.1091</b>		<b>2,642.7354</b>



San Luis Ranch Project - 2020 Start - San Luis Obispo County APCD Air District, Summer

**3.4 Building Construction - 2021**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643
<b>Total</b>	<b>1.9009</b>	<b>17.4321</b>	<b>16.5752</b>	<b>0.0269</b>		<b>0.9586</b>	<b>0.9586</b>		<b>0.9013</b>	<b>0.9013</b>	<b>0.0000</b>	<b>2,553.3639</b>	<b>2,553.3639</b>	<b>0.6160</b>		<b>2,568.7643</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1571	5.0096	1.3823	0.0106	0.2461	0.0141	0.2601	0.0709	0.0134	0.0843		1,131.8490	1,131.8490	0.0638		1,133.4434
Worker	0.6732	0.5393	5.4477	0.0151	1.6708	0.0104	1.6811	0.4431	9.5400e-003	0.4527		1,508.1598	1,508.1598	0.0453		1,509.2921
<b>Total</b>	<b>0.8303</b>	<b>5.5489</b>	<b>6.8300</b>	<b>0.0258</b>	<b>1.9168</b>	<b>0.0244</b>	<b>1.9412</b>	<b>0.5140</b>	<b>0.0230</b>	<b>0.5370</b>		<b>2,640.0088</b>	<b>2,640.0088</b>	<b>0.1091</b>		<b>2,642.7354</b>

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**3.5 Architectural Coating - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	43.4985					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2422	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109		281.4481	281.4481	0.0218		281.9928
<b>Total</b>	<b>43.7407</b>	<b>1.6838</b>	<b>1.8314</b>	<b>2.9700e-003</b>		<b>0.1109</b>	<b>0.1109</b>		<b>0.1109</b>	<b>0.1109</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0218</b>		<b>281.9928</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1454	0.1213	1.2069	3.1500e-003	0.3361	2.1500e-003	0.3383	0.0892	1.9800e-003	0.0911		314.1217	314.1217	0.0102		314.3777
<b>Total</b>	<b>0.1454</b>	<b>0.1213</b>	<b>1.2069</b>	<b>3.1500e-003</b>	<b>0.3361</b>	<b>2.1500e-003</b>	<b>0.3383</b>	<b>0.0892</b>	<b>1.9800e-003</b>	<b>0.0911</b>		<b>314.1217</b>	<b>314.1217</b>	<b>0.0102</b>		<b>314.3777</b>

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**3.5 Architectural Coating - 2020**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	43.4985					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2422	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109	0.0000	281.4481	281.4481	0.0218		281.9928
<b>Total</b>	<b>43.7407</b>	<b>1.6838</b>	<b>1.8314</b>	<b>2.9700e-003</b>		<b>0.1109</b>	<b>0.1109</b>		<b>0.1109</b>	<b>0.1109</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0218</b>		<b>281.9928</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1454	0.1213	1.2069	3.1500e-003	0.3361	2.1500e-003	0.3383	0.0892	1.9800e-003	0.0911		314.1217	314.1217	0.0102		314.3777
<b>Total</b>	<b>0.1454</b>	<b>0.1213</b>	<b>1.2069</b>	<b>3.1500e-003</b>	<b>0.3361</b>	<b>2.1500e-003</b>	<b>0.3383</b>	<b>0.0892</b>	<b>1.9800e-003</b>	<b>0.0911</b>		<b>314.1217</b>	<b>314.1217</b>	<b>0.0102</b>		<b>314.3777</b>

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**3.5 Architectural Coating - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	43.4985					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309
<b>Total</b>	<b>43.7174</b>	<b>1.5268</b>	<b>1.8176</b>	<b>2.9700e-003</b>		<b>0.0941</b>	<b>0.0941</b>		<b>0.0941</b>	<b>0.0941</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0193</b>		<b>281.9309</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1354	0.1085	1.0960	3.0500e-003	0.3361	2.0800e-003	0.3382	0.0892	1.9200e-003	0.0911		303.4168	303.4168	9.1100e-003		303.6446
<b>Total</b>	<b>0.1354</b>	<b>0.1085</b>	<b>1.0960</b>	<b>3.0500e-003</b>	<b>0.3361</b>	<b>2.0800e-003</b>	<b>0.3382</b>	<b>0.0892</b>	<b>1.9200e-003</b>	<b>0.0911</b>		<b>303.4168</b>	<b>303.4168</b>	<b>9.1100e-003</b>		<b>303.6446</b>

San Luis Ranch Project - 2020 Start - San Luis Obispo County APCD Air District, Summer

**3.5 Architectural Coating - 2021**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	43.4985					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941	0.0000	281.4481	281.4481	0.0193		281.9309
<b>Total</b>	<b>43.7174</b>	<b>1.5268</b>	<b>1.8176</b>	<b>2.9700e-003</b>		<b>0.0941</b>	<b>0.0941</b>		<b>0.0941</b>	<b>0.0941</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0193</b>		<b>281.9309</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1354	0.1085	1.0960	3.0500e-003	0.3361	2.0800e-003	0.3382	0.0892	1.9200e-003	0.0911		303.4168	303.4168	9.1100e-003		303.6446
<b>Total</b>	<b>0.1354</b>	<b>0.1085</b>	<b>1.0960</b>	<b>3.0500e-003</b>	<b>0.3361</b>	<b>2.0800e-003</b>	<b>0.3382</b>	<b>0.0892</b>	<b>1.9200e-003</b>	<b>0.0911</b>		<b>303.4168</b>	<b>303.4168</b>	<b>9.1100e-003</b>		<b>303.6446</b>

San Luis Ranch Project - 2020 Start - San Luis Obispo County APCD Air District, Summer

**3.6 Paving - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235		2,207.2109	2,207.2109	0.7139		2,225.0573
Paving	0.3144					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.5700</b>	<b>12.9191</b>	<b>14.6532</b>	<b>0.0228</b>		<b>0.6777</b>	<b>0.6777</b>		<b>0.6235</b>	<b>0.6235</b>		<b>2,207.2109</b>	<b>2,207.2109</b>	<b>0.7139</b>		<b>2,225.0573</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0598	0.0479	0.4835	1.3400e-003	0.1483	9.2000e-004	0.1492	0.0393	8.5000e-004	0.0402		133.8603	133.8603	4.0200e-003		133.9608
<b>Total</b>	<b>0.0598</b>	<b>0.0479</b>	<b>0.4835</b>	<b>1.3400e-003</b>	<b>0.1483</b>	<b>9.2000e-004</b>	<b>0.1492</b>	<b>0.0393</b>	<b>8.5000e-004</b>	<b>0.0402</b>		<b>133.8603</b>	<b>133.8603</b>	<b>4.0200e-003</b>		<b>133.9608</b>

San Luis Ranch Project - 2020 Start - San Luis Obispo County APCD Air District, Summer

**3.6 Paving - 2021**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235	0.0000	2,207.2109	2,207.2109	0.7139		2,225.0573
Paving	0.3144					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.5700</b>	<b>12.9191</b>	<b>14.6532</b>	<b>0.0228</b>		<b>0.6777</b>	<b>0.6777</b>		<b>0.6235</b>	<b>0.6235</b>	<b>0.0000</b>	<b>2,207.2109</b>	<b>2,207.2109</b>	<b>0.7139</b>		<b>2,225.0573</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0598	0.0479	0.4835	1.3400e-003	0.1483	9.2000e-004	0.1492	0.0393	8.5000e-004	0.0402		133.8603	133.8603	4.0200e-003		133.9608
<b>Total</b>	<b>0.0598</b>	<b>0.0479</b>	<b>0.4835</b>	<b>1.3400e-003</b>	<b>0.1483</b>	<b>9.2000e-004</b>	<b>0.1492</b>	<b>0.0393</b>	<b>8.5000e-004</b>	<b>0.0402</b>		<b>133.8603</b>	<b>133.8603</b>	<b>4.0200e-003</b>		<b>133.9608</b>

**4.0 Operational Detail - Mobile**

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San Luis Ranch Project - 2020 Start - San Luis Obispo County APCD Air District, Summer

**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.8744	7.0819	19.1218	0.0566	5.1194	0.0566	5.1760	1.3676	0.0531	1.4207		5,707.6178	5,707.6178	0.2233		5,713.2001
Unmitigated	1.8744	7.0819	19.1218	0.0566	5.1194	0.0566	5.1760	1.3676	0.0531	1.4207		5,707.6178	5,707.6178	0.2233		5,713.2001

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	422.47	439.07	382.63	1,065,294	1,065,294
City Park	119.99	61.43	45.20	205,134	205,134
General Office Building	300.00	67.00	28.50	518,513	518,513
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Regional Shopping Center	221.75	259.50	131.00	309,253	309,253
Total	1,064.21	827.00	587.33	2,098,193	2,098,193

**4.3 Trip Type Information**



San Luis Ranch Project - 2020 Start - San Luis Obispo County APCD Air District, Summer

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
Apartments Mid Rise	13.00	5.00	5.00	35.80	21.00	43.20	86	11	3
City Park	13.00	5.00	5.00	33.00	48.00	19.00	66	28	6
General Office Building	13.00	5.00	5.00	33.00	48.00	19.00	77	19	4
Parking Lot	13.00	5.00	5.00	0.00	0.00	0.00	0	0	0
Parking Lot	13.00	5.00	5.00	0.00	0.00	0.00	0	0	0
Regional Shopping Center	13.00	5.00	5.00	16.30	64.70	19.00	54	35	11

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	0.575581	0.029595	0.198288	0.120539	0.026172	0.006482	0.012911	0.019591	0.002354	0.001214	0.005068	0.000784	0.001422
Parking Lot	0.575581	0.029595	0.198288	0.120539	0.026172	0.006482	0.012911	0.019591	0.002354	0.001214	0.005068	0.000784	0.001422
Parking Lot	0.575581	0.029595	0.198288	0.120539	0.026172	0.006482	0.012911	0.019591	0.002354	0.001214	0.005068	0.000784	0.001422
City Park	0.575581	0.029595	0.198288	0.120539	0.026172	0.006482	0.012911	0.019591	0.002354	0.001214	0.005068	0.000784	0.001422
Apartments Mid Rise	0.575581	0.029595	0.198288	0.120539	0.026172	0.006482	0.012911	0.019591	0.002354	0.001214	0.005068	0.000784	0.001422
Regional Shopping Center	0.575581	0.029595	0.198288	0.120539	0.026172	0.006482	0.012911	0.019591	0.002354	0.001214	0.005068	0.000784	0.001422

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

Install Energy Efficient Appliances

San Luis Ranch Project - 2020 Start - San Luis Obispo County APCD Air District, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0411	0.3584	0.2049	2.2400e-003		0.0284	0.0284		0.0284	0.0284		447.8591	447.8591	8.5800e-003	8.2100e-003	450.5205
NaturalGas Unmitigated	0.0411	0.3584	0.2049	2.2400e-003		0.0284	0.0284		0.0284	0.0284		447.8591	447.8591	8.5800e-003	8.2100e-003	450.5205

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					
Apartments Mid Rise	2517.08	0.0271	0.2320	0.0987	1.4800e-003		0.0188	0.0188		0.0188	0.0188		296.1266	296.1266	5.6800e-003	5.4300e-003	297.8863
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
General Office Building	1126.71	0.0122	0.1105	0.0928	6.6000e-004		8.4000e-003	8.4000e-003		8.4000e-003	8.4000e-003		132.5544	132.5544	2.5400e-003	2.4300e-003	133.3421
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	163.014	1.7600e-003	0.0160	0.0134	1.0000e-004		1.2100e-003	1.2100e-003		1.2100e-003	1.2100e-003		19.1781	19.1781	3.7000e-004	3.5000e-004	19.2921
<b>Total</b>		<b>0.0411</b>	<b>0.3584</b>	<b>0.2049</b>	<b>2.2400e-003</b>		<b>0.0284</b>	<b>0.0284</b>		<b>0.0284</b>	<b>0.0284</b>		<b>447.8591</b>	<b>447.8591</b>	<b>8.5900e-003</b>	<b>8.2100e-003</b>	<b>450.5205</b>

San Luis Ranch Project - 2020 Start - San Luis Obispo County APCD Air District, Summer

**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					
Apartments Mid Rise	2.51708	0.0271	0.2320	0.0987	1.4800e-003		0.0188	0.0188		0.0188	0.0188		296.1266	296.1266	5.6800e-003	5.4300e-003	297.8863
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
General Office Building	1.12671	0.0122	0.1105	0.0928	6.6000e-004		8.4000e-003	8.4000e-003		8.4000e-003	8.4000e-003		132.5544	132.5544	2.5400e-003	2.4300e-003	133.3421
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	0.163014	1.7600e-003	0.0160	0.0134	1.0000e-004		1.2100e-003	1.2100e-003		1.2100e-003	1.2100e-003		19.1781	19.1781	3.7000e-004	3.5000e-004	19.2921
<b>Total</b>		<b>0.0411</b>	<b>0.3584</b>	<b>0.2049</b>	<b>2.2400e-003</b>		<b>0.0284</b>	<b>0.0284</b>		<b>0.0284</b>	<b>0.0284</b>		<b>447.8591</b>	<b>447.8591</b>	<b>8.5900e-003</b>	<b>8.2100e-003</b>	<b>450.5205</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

San Luis Ranch Project - 2020 Start - San Luis Obispo County APCD Air District, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	7.3953	0.0791	6.8606	3.6000e-004		0.0379	0.0379		0.0379	0.0379	0.0000	12.3419	12.3419	0.0119	0.0000	12.6401
Unmitigated	7.3953	0.0791	6.8606	3.6000e-004		0.0379	0.0379		0.0379	0.0379	0.0000	12.3419	12.3419	0.0119	0.0000	12.6401

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	1.7876					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	5.4001					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.2076	0.0791	6.8606	3.6000e-004		0.0379	0.0379		0.0379	0.0379		12.3419	12.3419	0.0119		12.6401
<b>Total</b>	<b>7.3953</b>	<b>0.0791</b>	<b>6.8606</b>	<b>3.6000e-004</b>		<b>0.0379</b>	<b>0.0379</b>		<b>0.0379</b>	<b>0.0379</b>	<b>0.0000</b>	<b>12.3419</b>	<b>12.3419</b>	<b>0.0119</b>	<b>0.0000</b>	<b>12.6401</b>

San Luis Ranch Project - 2020 Start - San Luis Obispo County APCD Air District, Summer

**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	1.7876					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	5.4001					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.2076	0.0791	6.8606	3.6000e-004		0.0379	0.0379		0.0379	0.0379		12.3419	12.3419	0.0119		12.6401
<b>Total</b>	<b>7.3953</b>	<b>0.0791</b>	<b>6.8606</b>	<b>3.6000e-004</b>		<b>0.0379</b>	<b>0.0379</b>		<b>0.0379</b>	<b>0.0379</b>	<b>0.0000</b>	<b>12.3419</b>	<b>12.3419</b>	<b>0.0119</b>	<b>0.0000</b>	<b>12.6401</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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

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## San Luis Ranch Project - 2020 Start - San Luis Obispo County APCD Air District, Summer

**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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**11.0 Vegetation**

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San Luis Ranch Project - 2020 Start - San Luis Obispo County APCD Air District, Winter

**San Luis Ranch Project - 2020 Start**  
**San Luis Obispo County APCD Air District, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	25.00	1000sqft	1.30	25,000.00	0
Parking Lot	0.60	Acre	0.60	26,136.00	0
Parking Lot	1.80	Acre	1.80	78,408.00	0
City Park	2.70	Acre	2.70	117,612.00	0
Apartments Mid Rise	83.00	Dwelling Unit	4.00	83,000.00	237
Regional Shopping Center	25.00	1000sqft	0.57	25,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	3.2	<b>Precipitation Freq (Days)</b>	44
<b>Climate Zone</b>	4			<b>Operational Year</b>	2022
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MW hr)</b>	641.35	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

**1.3 User Entered Comments & Non-Default Data**

San Luis Ranch Project - 2020 Start - San Luis Obispo County APCD Air District, Winter

Project Characteristics -

Land Use - Land use values from buildout and phasing in Specific Plan Section 7.7. Includes portions of Phases 3, 5, and 6. Ag SF from Sect 3.9 of Specific Plan.

Construction Phase - No demolition. AC expected to overlap with half of building construction as painting would occur as buildings are finished.

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Demolition - Building sf estimated using Google Earth

Grading - Total import proportionally distributed by phase acreage.

Architectural Coating -

Vehicle Trips - Trip generation rate based on Omni-Means 2016 Traffic Impact Study.

Woodstoves -

Construction Off-road Equipment Mitigation -

Mobile Land Use Mitigation - Trip reductions from project's density, diversity, and access to alternative transportation accounted for in trip generation rates.

Energy Mitigation - Per Specific Plan, appliances will be energy efficient.

Water Mitigation -



## San Luis Ranch Project - 2020 Start - San Luis Obispo County APCD Air District, Winter

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	0
tblConstructionPhase	NumDays	20.00	150.00
tblGrading	MaterialImported	0.00	29,760.00
tblLandUse	BuildingSpaceSquareFeet	0.00	117,612.00
tblLandUse	GreenSpaceSquareFeet	117,612.00	0.00
tblLandUse	LotAcreage	0.57	1.30
tblLandUse	LotAcreage	2.18	4.00
tblProjectCharacteristics	OperationalYear	2018	2022
tblVehicleTrips	ST_TR	6.39	5.29
tblVehicleTrips	ST_TR	2.46	2.68
tblVehicleTrips	ST_TR	49.97	10.38
tblVehicleTrips	SU_TR	5.86	4.61
tblVehicleTrips	SU_TR	1.05	1.14
tblVehicleTrips	SU_TR	25.24	5.24
tblVehicleTrips	WD_TR	6.65	5.09
tblVehicleTrips	WD_TR	1.89	44.44
tblVehicleTrips	WD_TR	11.03	12.00
tblVehicleTrips	WD_TR	42.70	8.87

## 2.0 Emissions Summary

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San Luis Ranch Project - 2020 Start - San Luis Obispo County APCD Air District, Winter

**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	7.3953	0.0791	6.8606	3.6000e-004		0.0379	0.0379		0.0379	0.0379	0.0000	12.3419	12.3419	0.0119	0.0000	12.6401
Energy	0.0411	0.3584	0.2049	2.2400e-003		0.0284	0.0284		0.0284	0.0284		447.8591	447.8591	8.5800e-003	8.2100e-003	450.5205
Mobile	1.8112	7.3238	19.6773	0.0543	5.1194	0.0572	5.1766	1.3676	0.0537	1.4213		5,481.0705	5,481.0705	0.2273		5,486.7521
<b>Total</b>	<b>9.2475</b>	<b>7.7613</b>	<b>26.7429</b>	<b>0.0569</b>	<b>5.1194</b>	<b>0.1235</b>	<b>5.2429</b>	<b>1.3676</b>	<b>0.1200</b>	<b>1.4876</b>	<b>0.0000</b>	<b>5,941.2715</b>	<b>5,941.2715</b>	<b>0.2478</b>	<b>8.2100e-003</b>	<b>5,949.9127</b>

**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	7.3953	0.0791	6.8606	3.6000e-004		0.0379	0.0379		0.0379	0.0379	0.0000	12.3419	12.3419	0.0119	0.0000	12.6401
Energy	0.0411	0.3584	0.2049	2.2400e-003		0.0284	0.0284		0.0284	0.0284		447.8591	447.8591	8.5800e-003	8.2100e-003	450.5205
Mobile	1.8112	7.3238	19.6773	0.0543	5.1194	0.0572	5.1766	1.3676	0.0537	1.4213		5,481.0705	5,481.0705	0.2273		5,486.7521
<b>Total</b>	<b>9.2475</b>	<b>7.7613</b>	<b>26.7429</b>	<b>0.0569</b>	<b>5.1194</b>	<b>0.1235</b>	<b>5.2429</b>	<b>1.3676</b>	<b>0.1200</b>	<b>1.4876</b>	<b>0.0000</b>	<b>5,941.2715</b>	<b>5,941.2715</b>	<b>0.2478</b>	<b>8.2100e-003</b>	<b>5,949.9127</b>

## San Luis Ranch Project - 2020 Start - San Luis Obispo County APCD Air District, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

### 3.0 Construction Detail

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#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/1/2020	1/14/2020	5	10	
2	Grading	Grading	1/15/2020	2/25/2020	5	30	
3	Building Construction	Building Construction	2/26/2020	4/20/2021	5	300	
4	Architectural Coating	Architectural Coating	10/21/2020	5/18/2021	5	150	
5	Paving	Paving	4/21/2021	5/18/2021	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 75

Acres of Paving: 2.4

Residential Indoor: 168,075; Residential Outdoor: 56,025; Non-Residential Indoor: 251,418; Non-Residential Outdoor: 83,806; Striped Parking Area: 6,273 (Architectural Coating – sqft)

#### OffRoad Equipment

San Luis Ranch Project - 2020 Start - San Luis Obispo County APCD Air District, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38

**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
Site Preparation	7	18.00	0.00	0.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	3,720.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	169.00	53.00	0.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	34.00	0.00	0.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

San Luis Ranch Project - 2020 Start - San Luis Obispo County APCD Air District, Winter

**3.2 Site Preparation - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.0765	42.4173	21.5136	0.0380		2.1974	2.1974		2.0216	2.0216		3,685.1016	3,685.1016	1.1918		3,714.8975
<b>Total</b>	<b>4.0765</b>	<b>42.4173</b>	<b>21.5136</b>	<b>0.0380</b>	<b>18.0663</b>	<b>2.1974</b>	<b>20.2637</b>	<b>9.9307</b>	<b>2.0216</b>	<b>11.9523</b>		<b>3,685.1016</b>	<b>3,685.1016</b>	<b>1.1918</b>		<b>3,714.8975</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0878	0.0729	0.6216	1.5900e-003	0.1780	1.1400e-003	0.1791	0.0472	1.0500e-003	0.0483		158.5129	158.5129	5.2400e-003		158.6439
<b>Total</b>	<b>0.0878</b>	<b>0.0729</b>	<b>0.6216</b>	<b>1.5900e-003</b>	<b>0.1780</b>	<b>1.1400e-003</b>	<b>0.1791</b>	<b>0.0472</b>	<b>1.0500e-003</b>	<b>0.0483</b>		<b>158.5129</b>	<b>158.5129</b>	<b>5.2400e-003</b>		<b>158.6439</b>

San Luis Ranch Project - 2020 Start - San Luis Obispo County APCD Air District, Winter

**3.2 Site Preparation - 2020**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.0765	42.4173	21.5136	0.0380		2.1974	2.1974		2.0216	2.0216	0.0000	3,685.1016	3,685.1016	1.1918		3,714.8975
<b>Total</b>	<b>4.0765</b>	<b>42.4173</b>	<b>21.5136</b>	<b>0.0380</b>	<b>18.0663</b>	<b>2.1974</b>	<b>20.2637</b>	<b>9.9307</b>	<b>2.0216</b>	<b>11.9523</b>	<b>0.0000</b>	<b>3,685.1016</b>	<b>3,685.1016</b>	<b>1.1918</b>		<b>3,714.8975</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0878	0.0729	0.6216	1.5900e-003	0.1780	1.1400e-003	0.1791	0.0472	1.0500e-003	0.0483		158.5129	158.5129	5.2400e-003		158.6439
<b>Total</b>	<b>0.0878</b>	<b>0.0729</b>	<b>0.6216</b>	<b>1.5900e-003</b>	<b>0.1780</b>	<b>1.1400e-003</b>	<b>0.1791</b>	<b>0.0472</b>	<b>1.0500e-003</b>	<b>0.0483</b>		<b>158.5129</b>	<b>158.5129</b>	<b>5.2400e-003</b>		<b>158.6439</b>

San Luis Ranch Project - 2020 Start - San Luis Obispo County APCD Air District, Winter

**3.3 Grading - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.8559	0.0000	8.8559	3.6242	0.0000	3.6242			0.0000			0.0000
Off-Road	4.4501	50.1975	31.9583	0.0620		2.1739	2.1739		2.0000	2.0000		6,005.8653	6,005.8653	1.9424		6,054.4257
<b>Total</b>	<b>4.4501</b>	<b>50.1975</b>	<b>31.9583</b>	<b>0.0620</b>	<b>8.8559</b>	<b>2.1739</b>	<b>11.0298</b>	<b>3.6242</b>	<b>2.0000</b>	<b>5.6241</b>		<b>6,005.8653</b>	<b>6,005.8653</b>	<b>1.9424</b>		<b>6,054.4257</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.0932	39.3924	8.9540	0.0967	2.1637	0.1760	2.3397	0.5927	0.1684	0.7611		10,424.3344	10,424.3344	0.6059		10,439.4830
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	0.0975	0.0810	0.6907	1.7700e-003	0.1977	1.2600e-003	0.1990	0.0524	1.1700e-003	0.0536		176.1254	176.1254	5.8200e-003		176.2710
<b>Total</b>	<b>1.1907</b>	<b>39.4733</b>	<b>9.6447</b>	<b>0.0985</b>	<b>2.3614</b>	<b>0.1773</b>	<b>2.5387</b>	<b>0.6452</b>	<b>0.1696</b>	<b>0.8147</b>		<b>10,600.4599</b>	<b>10,600.4599</b>	<b>0.6118</b>		<b>10,615.7540</b>



San Luis Ranch Project - 2020 Start - San Luis Obispo County APCD Air District, Winter

**3.3 Grading - 2020**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.8559	0.0000	8.8559	3.6242	0.0000	3.6242			0.0000			0.0000
Off-Road	4.4501	50.1975	31.9583	0.0620		2.1739	2.1739		2.0000	2.0000	0.0000	6,005.865 3	6,005.865 3	1.9424		6,054.425 7
<b>Total</b>	<b>4.4501</b>	<b>50.1975</b>	<b>31.9583</b>	<b>0.0620</b>	<b>8.8559</b>	<b>2.1739</b>	<b>11.0298</b>	<b>3.6242</b>	<b>2.0000</b>	<b>5.6241</b>	<b>0.0000</b>	<b>6,005.865 3</b>	<b>6,005.865 3</b>	<b>1.9424</b>		<b>6,054.425 7</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.0932	39.3924	8.9540	0.0967	2.1637	0.1760	2.3397	0.5927	0.1684	0.7611		10,424.33 44	10,424.33 44	0.6059		10,439.48 30
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	0.0975	0.0810	0.6907	1.7700e- 003	0.1977	1.2600e- 003	0.1990	0.0524	1.1700e- 003	0.0536		176.1254	176.1254	5.8200e- 003		176.2710
<b>Total</b>	<b>1.1907</b>	<b>39.4733</b>	<b>9.6447</b>	<b>0.0985</b>	<b>2.3614</b>	<b>0.1773</b>	<b>2.5387</b>	<b>0.6452</b>	<b>0.1696</b>	<b>0.8147</b>		<b>10,600.45 99</b>	<b>10,600.45 99</b>	<b>0.6118</b>		<b>10,615.75 40</b>

San Luis Ranch Project - 2020 Start - San Luis Obispo County APCD Air District, Winter

**3.4 Building Construction - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503		2,553.063 1	2,553.063 1	0.6229		2,568.634 5
<b>Total</b>	<b>2.1198</b>	<b>19.1860</b>	<b>16.8485</b>	<b>0.0269</b>		<b>1.1171</b>	<b>1.1171</b>		<b>1.0503</b>	<b>1.0503</b>		<b>2,553.063 1</b>	<b>2,553.063 1</b>	<b>0.6229</b>		<b>2,568.634 5</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2033	5.4426	1.7650	0.0104	0.2460	0.0306	0.2766	0.0709	0.0293	0.1002		1,104.046 4	1,104.046 4	0.0700		1,105.796 3
Worker	0.8240	0.6844	5.8363	0.0150	1.6708	0.0107	1.6814	0.4431	9.8600e-003	0.4530		1,488.259 9	1,488.259 9	0.0492		1,489.490 2
<b>Total</b>	<b>1.0272</b>	<b>6.1270</b>	<b>7.6013</b>	<b>0.0253</b>	<b>1.9168</b>	<b>0.0413</b>	<b>1.9581</b>	<b>0.5140</b>	<b>0.0392</b>	<b>0.5531</b>		<b>2,592.306 3</b>	<b>2,592.306 3</b>	<b>0.1192</b>		<b>2,595.286 5</b>

San Luis Ranch Project - 2020 Start - San Luis Obispo County APCD Air District, Winter

**3.4 Building Construction - 2020**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503	0.0000	2,553.063 1	2,553.063 1	0.6229		2,568.634 5
<b>Total</b>	<b>2.1198</b>	<b>19.1860</b>	<b>16.8485</b>	<b>0.0269</b>		<b>1.1171</b>	<b>1.1171</b>		<b>1.0503</b>	<b>1.0503</b>	<b>0.0000</b>	<b>2,553.063 1</b>	<b>2,553.063 1</b>	<b>0.6229</b>		<b>2,568.634 5</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2033	5.4426	1.7650	0.0104	0.2460	0.0306	0.2766	0.0709	0.0293	0.1002		1,104.046 4	1,104.046 4	0.0700		1,105.796 3
Worker	0.8240	0.6844	5.8363	0.0150	1.6708	0.0107	1.6814	0.4431	9.8600e-003	0.4530		1,488.259 9	1,488.259 9	0.0492		1,489.490 2
<b>Total</b>	<b>1.0272</b>	<b>6.1270</b>	<b>7.6013</b>	<b>0.0253</b>	<b>1.9168</b>	<b>0.0413</b>	<b>1.9581</b>	<b>0.5140</b>	<b>0.0392</b>	<b>0.5531</b>		<b>2,592.306 3</b>	<b>2,592.306 3</b>	<b>0.1192</b>		<b>2,595.286 5</b>

San Luis Ranch Project - 2020 Start - San Luis Obispo County APCD Air District, Winter

**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										lb/day					
Off-Road	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013		2,553.3639	2,553.3639	0.6160		2,568.7643
<b>Total</b>	<b>1.9009</b>	<b>17.4321</b>	<b>16.5752</b>	<b>0.0269</b>		<b>0.9586</b>	<b>0.9586</b>		<b>0.9013</b>	<b>0.9013</b>		<b>2,553.3639</b>	<b>2,553.3639</b>	<b>0.6160</b>		<b>2,568.7643</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1673	4.9769	1.5652	0.0103	0.2461	0.0149	0.2610	0.0709	0.0142	0.0851		1,097.1189	1,097.1189	0.0683		1,098.8262
Worker	0.7689	0.6119	5.2858	0.0144	1.6708	0.0104	1.6811	0.4431	9.5400e-003	0.4527		1,437.5375	1,437.5375	0.0437		1,438.6297
<b>Total</b>	<b>0.9362</b>	<b>5.5888</b>	<b>6.8509</b>	<b>0.0247</b>	<b>1.9168</b>	<b>0.0252</b>	<b>1.9421</b>	<b>0.5140</b>	<b>0.0238</b>	<b>0.5378</b>		<b>2,534.6563</b>	<b>2,534.6563</b>	<b>0.1120</b>		<b>2,537.4559</b>

San Luis Ranch Project - 2020 Start - San Luis Obispo County APCD Air District, Winter

**3.4 Building Construction - 2021**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643
<b>Total</b>	<b>1.9009</b>	<b>17.4321</b>	<b>16.5752</b>	<b>0.0269</b>		<b>0.9586</b>	<b>0.9586</b>		<b>0.9013</b>	<b>0.9013</b>	<b>0.0000</b>	<b>2,553.3639</b>	<b>2,553.3639</b>	<b>0.6160</b>		<b>2,568.7643</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1673	4.9769	1.5652	0.0103	0.2461	0.0149	0.2610	0.0709	0.0142	0.0851		1,097.1189	1,097.1189	0.0683		1,098.8262
Worker	0.7689	0.6119	5.2858	0.0144	1.6708	0.0104	1.6811	0.4431	9.5400e-003	0.4527		1,437.5375	1,437.5375	0.0437		1,438.6297
<b>Total</b>	<b>0.9362</b>	<b>5.5888</b>	<b>6.8509</b>	<b>0.0247</b>	<b>1.9168</b>	<b>0.0252</b>	<b>1.9421</b>	<b>0.5140</b>	<b>0.0238</b>	<b>0.5378</b>		<b>2,534.6563</b>	<b>2,534.6563</b>	<b>0.1120</b>		<b>2,537.4559</b>

San Luis Ranch Project - 2020 Start - San Luis Obispo County APCD Air District, Winter

**3.5 Architectural Coating - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	43.4985					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2422	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109		281.4481	281.4481	0.0218		281.9928
<b>Total</b>	<b>43.7407</b>	<b>1.6838</b>	<b>1.8314</b>	<b>2.9700e-003</b>		<b>0.1109</b>	<b>0.1109</b>		<b>0.1109</b>	<b>0.1109</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0218</b>		<b>281.9928</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1658	0.1377	1.1742	3.0100e-003	0.3361	2.1500e-003	0.3383	0.0892	1.9800e-003	0.0911		299.4132	299.4132	9.9000e-003		299.6608
<b>Total</b>	<b>0.1658</b>	<b>0.1377</b>	<b>1.1742</b>	<b>3.0100e-003</b>	<b>0.3361</b>	<b>2.1500e-003</b>	<b>0.3383</b>	<b>0.0892</b>	<b>1.9800e-003</b>	<b>0.0911</b>		<b>299.4132</b>	<b>299.4132</b>	<b>9.9000e-003</b>		<b>299.6608</b>

San Luis Ranch Project - 2020 Start - San Luis Obispo County APCD Air District, Winter

**3.5 Architectural Coating - 2020**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	43.4985					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2422	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109	0.0000	281.4481	281.4481	0.0218		281.9928
<b>Total</b>	<b>43.7407</b>	<b>1.6838</b>	<b>1.8314</b>	<b>2.9700e-003</b>		<b>0.1109</b>	<b>0.1109</b>		<b>0.1109</b>	<b>0.1109</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0218</b>		<b>281.9928</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1658	0.1377	1.1742	3.0100e-003	0.3361	2.1500e-003	0.3383	0.0892	1.9800e-003	0.0911		299.4132	299.4132	9.9000e-003		299.6608
<b>Total</b>	<b>0.1658</b>	<b>0.1377</b>	<b>1.1742</b>	<b>3.0100e-003</b>	<b>0.3361</b>	<b>2.1500e-003</b>	<b>0.3383</b>	<b>0.0892</b>	<b>1.9800e-003</b>	<b>0.0911</b>		<b>299.4132</b>	<b>299.4132</b>	<b>9.9000e-003</b>		<b>299.6608</b>

San Luis Ranch Project - 2020 Start - San Luis Obispo County APCD Air District, Winter

**3.5 Architectural Coating - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	43.4985					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309
<b>Total</b>	<b>43.7174</b>	<b>1.5268</b>	<b>1.8176</b>	<b>2.9700e-003</b>		<b>0.0941</b>	<b>0.0941</b>		<b>0.0941</b>	<b>0.0941</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0193</b>		<b>281.9309</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1547	0.1231	1.0634	2.9000e-003	0.3361	2.0800e-003	0.3382	0.0892	1.9200e-003	0.0911		289.2087	289.2087	8.7900e-003		289.4285
<b>Total</b>	<b>0.1547</b>	<b>0.1231</b>	<b>1.0634</b>	<b>2.9000e-003</b>	<b>0.3361</b>	<b>2.0800e-003</b>	<b>0.3382</b>	<b>0.0892</b>	<b>1.9200e-003</b>	<b>0.0911</b>		<b>289.2087</b>	<b>289.2087</b>	<b>8.7900e-003</b>		<b>289.4285</b>



San Luis Ranch Project - 2020 Start - San Luis Obispo County APCD Air District, Winter

**3.5 Architectural Coating - 2021**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	43.4985					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941	0.0000	281.4481	281.4481	0.0193		281.9309
<b>Total</b>	<b>43.7174</b>	<b>1.5268</b>	<b>1.8176</b>	<b>2.9700e-003</b>		<b>0.0941</b>	<b>0.0941</b>		<b>0.0941</b>	<b>0.0941</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0193</b>		<b>281.9309</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1547	0.1231	1.0634	2.9000e-003	0.3361	2.0800e-003	0.3382	0.0892	1.9200e-003	0.0911		289.2087	289.2087	8.7900e-003		289.4285
<b>Total</b>	<b>0.1547</b>	<b>0.1231</b>	<b>1.0634</b>	<b>2.9000e-003</b>	<b>0.3361</b>	<b>2.0800e-003</b>	<b>0.3382</b>	<b>0.0892</b>	<b>1.9200e-003</b>	<b>0.0911</b>		<b>289.2087</b>	<b>289.2087</b>	<b>8.7900e-003</b>		<b>289.4285</b>

San Luis Ranch Project - 2020 Start - San Luis Obispo County APCD Air District, Winter

**3.6 Paving - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235		2,207.2109	2,207.2109	0.7139		2,225.0573
Paving	0.3144					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.5700</b>	<b>12.9191</b>	<b>14.6532</b>	<b>0.0228</b>		<b>0.6777</b>	<b>0.6777</b>		<b>0.6235</b>	<b>0.6235</b>		<b>2,207.2109</b>	<b>2,207.2109</b>	<b>0.7139</b>		<b>2,225.0573</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0683	0.0543	0.4692	1.2800e-003	0.1483	9.2000e-004	0.1492	0.0393	8.5000e-004	0.0402		127.5921	127.5921	3.8800e-003		127.6890
<b>Total</b>	<b>0.0683</b>	<b>0.0543</b>	<b>0.4692</b>	<b>1.2800e-003</b>	<b>0.1483</b>	<b>9.2000e-004</b>	<b>0.1492</b>	<b>0.0393</b>	<b>8.5000e-004</b>	<b>0.0402</b>		<b>127.5921</b>	<b>127.5921</b>	<b>3.8800e-003</b>		<b>127.6890</b>

San Luis Ranch Project - 2020 Start - San Luis Obispo County APCD Air District, Winter

**3.6 Paving - 2021**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235	0.0000	2,207.2109	2,207.2109	0.7139		2,225.0573
Paving	0.3144					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.5700</b>	<b>12.9191</b>	<b>14.6532</b>	<b>0.0228</b>		<b>0.6777</b>	<b>0.6777</b>		<b>0.6235</b>	<b>0.6235</b>	<b>0.0000</b>	<b>2,207.2109</b>	<b>2,207.2109</b>	<b>0.7139</b>		<b>2,225.0573</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0683	0.0543	0.4692	1.2800e-003	0.1483	9.2000e-004	0.1492	0.0393	8.5000e-004	0.0402		127.5921	127.5921	3.8800e-003		127.6890
<b>Total</b>	<b>0.0683</b>	<b>0.0543</b>	<b>0.4692</b>	<b>1.2800e-003</b>	<b>0.1483</b>	<b>9.2000e-004</b>	<b>0.1492</b>	<b>0.0393</b>	<b>8.5000e-004</b>	<b>0.0402</b>		<b>127.5921</b>	<b>127.5921</b>	<b>3.8800e-003</b>		<b>127.6890</b>

**4.0 Operational Detail - Mobile**

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San Luis Ranch Project - 2020 Start - San Luis Obispo County APCD Air District, Winter

**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.8112	7.3238	19.6773	0.0543	5.1194	0.0572	5.1766	1.3676	0.0537	1.4213		5,481.0705	5,481.0705	0.2273		5,486.7521
Unmitigated	1.8112	7.3238	19.6773	0.0543	5.1194	0.0572	5.1766	1.3676	0.0537	1.4213		5,481.0705	5,481.0705	0.2273		5,486.7521

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	422.47	439.07	382.63	1,065,294	1,065,294
City Park	119.99	61.43	45.20	205,134	205,134
General Office Building	300.00	67.00	28.50	518,513	518,513
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Regional Shopping Center	221.75	259.50	131.00	309,253	309,253
<b>Total</b>	<b>1,064.21</b>	<b>827.00</b>	<b>587.33</b>	<b>2,098,193</b>	<b>2,098,193</b>

**4.3 Trip Type Information**

San Luis Ranch Project - 2020 Start - San Luis Obispo County APCD Air District, Winter

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
Apartments Mid Rise	13.00	5.00	5.00	35.80	21.00	43.20	86	11	3
City Park	13.00	5.00	5.00	33.00	48.00	19.00	66	28	6
General Office Building	13.00	5.00	5.00	33.00	48.00	19.00	77	19	4
Parking Lot	13.00	5.00	5.00	0.00	0.00	0.00	0	0	0
Parking Lot	13.00	5.00	5.00	0.00	0.00	0.00	0	0	0
Regional Shopping Center	13.00	5.00	5.00	16.30	64.70	19.00	54	35	11

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	0.575581	0.029595	0.198288	0.120539	0.026172	0.006482	0.012911	0.019591	0.002354	0.001214	0.005068	0.000784	0.001422
Parking Lot	0.575581	0.029595	0.198288	0.120539	0.026172	0.006482	0.012911	0.019591	0.002354	0.001214	0.005068	0.000784	0.001422
Parking Lot	0.575581	0.029595	0.198288	0.120539	0.026172	0.006482	0.012911	0.019591	0.002354	0.001214	0.005068	0.000784	0.001422
City Park	0.575581	0.029595	0.198288	0.120539	0.026172	0.006482	0.012911	0.019591	0.002354	0.001214	0.005068	0.000784	0.001422
Apartments Mid Rise	0.575581	0.029595	0.198288	0.120539	0.026172	0.006482	0.012911	0.019591	0.002354	0.001214	0.005068	0.000784	0.001422
Regional Shopping Center	0.575581	0.029595	0.198288	0.120539	0.026172	0.006482	0.012911	0.019591	0.002354	0.001214	0.005068	0.000784	0.001422

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

Install Energy Efficient Appliances

San Luis Ranch Project - 2020 Start - San Luis Obispo County APCD Air District, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0411	0.3584	0.2049	2.2400e-003		0.0284	0.0284		0.0284	0.0284		447.8591	447.8591	8.5800e-003	8.2100e-003	450.5205
NaturalGas Unmitigated	0.0411	0.3584	0.2049	2.2400e-003		0.0284	0.0284		0.0284	0.0284		447.8591	447.8591	8.5800e-003	8.2100e-003	450.5205

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					
Apartments Mid Rise	2517.08	0.0271	0.2320	0.0987	1.4800e-003		0.0188	0.0188		0.0188	0.0188		296.1266	296.1266	5.6800e-003	5.4300e-003	297.8863
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
General Office Building	1126.71	0.0122	0.1105	0.0928	6.6000e-004		8.4000e-003	8.4000e-003		8.4000e-003	8.4000e-003		132.5544	132.5544	2.5400e-003	2.4300e-003	133.3421
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	163.014	1.7600e-003	0.0160	0.0134	1.0000e-004		1.2100e-003	1.2100e-003		1.2100e-003	1.2100e-003		19.1781	19.1781	3.7000e-004	3.5000e-004	19.2921
<b>Total</b>		<b>0.0411</b>	<b>0.3584</b>	<b>0.2049</b>	<b>2.2400e-003</b>		<b>0.0284</b>	<b>0.0284</b>		<b>0.0284</b>	<b>0.0284</b>		<b>447.8591</b>	<b>447.8591</b>	<b>8.5900e-003</b>	<b>8.2100e-003</b>	<b>450.5205</b>

San Luis Ranch Project - 2020 Start - San Luis Obispo County APCD Air District, Winter

**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					
Apartments Mid Rise	2.51708	0.0271	0.2320	0.0987	1.4800e-003		0.0188	0.0188		0.0188	0.0188		296.1266	296.1266	5.6800e-003	5.4300e-003	297.8863
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
General Office Building	1.12671	0.0122	0.1105	0.0928	6.6000e-004		8.4000e-003	8.4000e-003		8.4000e-003	8.4000e-003		132.5544	132.5544	2.5400e-003	2.4300e-003	133.3421
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	0.163014	1.7600e-003	0.0160	0.0134	1.0000e-004		1.2100e-003	1.2100e-003		1.2100e-003	1.2100e-003		19.1781	19.1781	3.7000e-004	3.5000e-004	19.2921
<b>Total</b>		<b>0.0411</b>	<b>0.3584</b>	<b>0.2049</b>	<b>2.2400e-003</b>		<b>0.0284</b>	<b>0.0284</b>		<b>0.0284</b>	<b>0.0284</b>		<b>447.8591</b>	<b>447.8591</b>	<b>8.5900e-003</b>	<b>8.2100e-003</b>	<b>450.5205</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

San Luis Ranch Project - 2020 Start - San Luis Obispo County APCD Air District, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	7.3953	0.0791	6.8606	3.6000e-004		0.0379	0.0379		0.0379	0.0379	0.0000	12.3419	12.3419	0.0119	0.0000	12.6401
Unmitigated	7.3953	0.0791	6.8606	3.6000e-004		0.0379	0.0379		0.0379	0.0379	0.0000	12.3419	12.3419	0.0119	0.0000	12.6401

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	1.7876					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	5.4001					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.2076	0.0791	6.8606	3.6000e-004		0.0379	0.0379		0.0379	0.0379		12.3419	12.3419	0.0119		12.6401
<b>Total</b>	<b>7.3953</b>	<b>0.0791</b>	<b>6.8606</b>	<b>3.6000e-004</b>		<b>0.0379</b>	<b>0.0379</b>		<b>0.0379</b>	<b>0.0379</b>	<b>0.0000</b>	<b>12.3419</b>	<b>12.3419</b>	<b>0.0119</b>	<b>0.0000</b>	<b>12.6401</b>



San Luis Ranch Project - 2020 Start - San Luis Obispo County APCD Air District, Winter

**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	1.7876					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	5.4001					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.2076	0.0791	6.8606	3.6000e-004		0.0379	0.0379		0.0379	0.0379		12.3419	12.3419	0.0119		12.6401
<b>Total</b>	<b>7.3953</b>	<b>0.0791</b>	<b>6.8606</b>	<b>3.6000e-004</b>		<b>0.0379</b>	<b>0.0379</b>		<b>0.0379</b>	<b>0.0379</b>	<b>0.0000</b>	<b>12.3419</b>	<b>12.3419</b>	<b>0.0119</b>	<b>0.0000</b>	<b>12.6401</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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

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San Luis Ranch Project - 2020 Start - San Luis Obispo County APCD Air District, Winter

**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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**11.0 Vegetation**

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## San Luis Ranch Project - 2020 Start - San Luis Obispo County APCD Air District, Summary Report

**San Luis Ranch Project - 2020 Start**  
**San Luis Obispo County APCD, Summary Report**

**1.0 Project Characteristics****1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	25.00	1000sqft	1.30	25,000.00	0
Parking Lot	0.60	Acre	0.60	26,136.00	0
Parking Lot	1.80	Acre	1.80	78,408.00	0
City Park	2.70	Acre	2.70	117,612.00	0
Apartments Mid Rise	83.00	Dwelling Unit	4.00	83,000.00	237
Regional Shopping Center	25.00	1000sqft	0.57	25,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	3.2	<b>Precipitation Freq (Days)</b>	44
<b>Climate Zone</b>	4			<b>Operational Year</b>	2022
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MW hr)</b>	641.35	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

**1.3 User Entered Comments**

Only CalEEMod defaults were used.

San Luis Ranch Project - 2020 Start - San Luis Obispo County APCD Air District, Summary Report

Project Characteristics -

Land Use - Land use values from buildout and phasing in Specific Plan Section 7.7. Includes portions of Phases 3, 5, and 6. Ag SF from Sect 3.9 of Specific Plan.

Construction Phase - No demolition. AC expected to overlap with half of building construction as painting would occur as buildings are finished.

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Demolition - Building sf estimated using Google Earth

Grading - Total import proportionally distributed by phase acreage.

Architectural Coating -

Vehicle Trips - Trip generation rate based on Omni-Means 2016 Traffic Impact Study.

Woodstoves -

Construction Off-road Equipment Mitigation -

Mobile Land Use Mitigation - Trip reductions from project's density, diversity, and access to alternative transportation accounted for in trip generation rates.

Energy Mitigation - Per Specific Plan, appliances will be energy efficient.

Water Mitigation -

## **2.0 Peak Daily Emissions**

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### **Peak Daily Construction Emissions**

#### **Peak Daily Construction Emissions**





San Luis Ranch Project - 2021 Start - San Luis Obispo County APCD Air District, Annual

**San Luis Ranch Project - 2021 Start**  
**San Luis Obispo County APCD Air District, Annual**

**1.0 Project Characteristics**

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**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	25.00	1000sqft	1.30	25,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	3.2	<b>Precipitation Freq (Days)</b>	44
<b>Climate Zone</b>	4			<b>Operational Year</b>	2022
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MW hr)</b>	641.35	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

**1.3 User Entered Comments & Non-Default Data**

San Luis Ranch Project - 2021 Start - San Luis Obispo County APCD Air District, Annual

Project Characteristics -

Land Use - Land use values from buildout and phasing in Specific Plan Section 7.7. Includes portions of Phase 5.

Construction Phase - Demolition, site prep and grading would be completed 2018-2020 for Phase 5.

Off-road Equipment -

Demolition - Building sf estimated using Google Earth

Grading - Soil import completed in 2020

Architectural Coating -

Vehicle Trips - Trip generation rate based on Omni-Means 2016 Traffic Impact Study.

Mobile Land Use Mitigation - Trip reductions from project's density, diversity, and access to alternative transportation accounted for in trip generation rates.

Energy Mitigation -

Water Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	0
tblLandUse	LotAcreage	0.57	1.30
tblProjectCharacteristics	OperationalYear	2018	2022
tblVehicleTrips	ST_TR	2.46	2.68
tblVehicleTrips	SU_TR	1.05	1.14
tblVehicleTrips	WD_TR	11.03	12.00

**2.0 Emissions Summary**

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San Luis Ranch Project - 2021 Start - San Luis Obispo County APCD Air District, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-1-2021	3-31-2021	0.5111	0.5111
2	4-1-2021	6-30-2021	0.4546	0.4546
		Highest	0.5111	0.5111

**2.2 Overall Operational**  
**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.1267	0.0000	4.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	8.2000e-004	8.2000e-004	0.0000	0.0000	8.7000e-004
Energy	2.2200e-003	0.0202	0.0169	1.2000e-004		1.5300e-003	1.5300e-003		1.5300e-003	1.5300e-003	0.0000	154.4560	154.4560	6.4100e-003	1.6400e-003	155.1057
Mobile	0.0668	0.2810	0.7406	2.1300e-003	0.1947	2.2000e-003	0.1969	0.0521	2.0700e-003	0.0542	0.0000	195.0057	195.0057	7.8300e-003	0.0000	195.2014
Waste						0.0000	0.0000		0.0000	0.0000	4.7195	0.0000	4.7195	0.2789	0.0000	11.6925
Water						0.0000	0.0000		0.0000	0.0000	1.4097	9.7672	11.1769	0.1452	3.5100e-003	15.8536
<b>Total</b>	<b>0.1957</b>	<b>0.3012</b>	<b>0.7580</b>	<b>2.2500e-003</b>	<b>0.1947</b>	<b>3.7300e-003</b>	<b>0.1985</b>	<b>0.0521</b>	<b>3.6000e-003</b>	<b>0.0557</b>	<b>6.1292</b>	<b>359.2298</b>	<b>365.3590</b>	<b>0.4384</b>	<b>5.1500e-003</b>	<b>377.8540</b>

San Luis Ranch Project - 2021 Start - San Luis Obispo County APCD Air District, Annual

**2.2 Overall Operational**

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.1267	0.0000	4.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	8.2000e-004	8.2000e-004	0.0000	0.0000	8.7000e-004
Energy	2.2200e-003	0.0202	0.0169	1.2000e-004		1.5300e-003	1.5300e-003		1.5300e-003	1.5300e-003	0.0000	154.4560	154.4560	6.4100e-003	1.6400e-003	155.1057
Mobile	0.0668	0.2810	0.7406	2.1300e-003	0.1947	2.2000e-003	0.1969	0.0521	2.0700e-003	0.0542	0.0000	195.0057	195.0057	7.8300e-003	0.0000	195.2014
Waste						0.0000	0.0000		0.0000	0.0000	4.7195	0.0000	4.7195	0.2789	0.0000	11.6925
Water						0.0000	0.0000		0.0000	0.0000	1.4097	9.7672	11.1769	0.1452	3.5100e-003	15.8536
<b>Total</b>	<b>0.1957</b>	<b>0.3012</b>	<b>0.7580</b>	<b>2.2500e-003</b>	<b>0.1947</b>	<b>3.7300e-003</b>	<b>0.1985</b>	<b>0.0521</b>	<b>3.6000e-003</b>	<b>0.0557</b>	<b>6.1292</b>	<b>359.2298</b>	<b>365.3590</b>	<b>0.4384</b>	<b>5.1500e-003</b>	<b>377.8540</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Building Construction	Building Construction	1/1/2021	5/20/2021	5	200	
2	Paving	Paving	5/21/2021	5/27/2021	5	10	
3	Architectural Coating	Architectural Coating	5/28/2021	6/3/2021	5	10	

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**Acres of Grading (Site Preparation Phase): 0**

**Acres of Grading (Grading Phase): 0**

**Acres of Paving: 0**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 37,500; Non-Residential Outdoor: 12,500; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Construction	Cranes	1	6.00	231	0.29
Building Construction	Forklifts	1	6.00	89	0.20
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Paving	Cement and Mortar Mixers	1	6.00	9	0.56
Paving	Pavers	1	6.00	130	0.42
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48
Building Construction	Generator Sets	1	8.00	84	0.74
Paving	Paving Equipment	1	8.00	132	0.36
Building Construction	Welders	3	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
Building Construction	7	8.00	4.00	0.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	13.00	0.00	0.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	2.00	0.00	0.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT

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**3.1 Mitigation Measures Construction**

**3.2 Building Construction - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0906	0.6818	0.6450	1.1000e-003		0.0342	0.0342		0.0330	0.0330	0.0000	90.7738	90.7738	0.0162	0.0000	91.1790
<b>Total</b>	<b>0.0906</b>	<b>0.6818</b>	<b>0.6450</b>	<b>1.1000e-003</b>		<b>0.0342</b>	<b>0.0342</b>		<b>0.0330</b>	<b>0.0330</b>	<b>0.0000</b>	<b>90.7738</b>	<b>90.7738</b>	<b>0.0162</b>	<b>0.0000</b>	<b>91.1790</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.1000e-004	0.0190	5.5800e-003	4.0000e-005	9.1000e-004	5.0000e-005	9.6000e-004	2.6000e-004	5.0000e-005	3.1000e-004	0.0000	3.8247	3.8247	2.3000e-004	0.0000	3.8303
Worker	1.6300e-003	1.4200e-003	0.0125	3.0000e-005	3.8500e-003	2.0000e-005	3.8800e-003	1.0200e-003	2.0000e-005	1.0500e-003	0.0000	3.1118	3.1118	9.0000e-005	0.0000	3.1142
<b>Total</b>	<b>2.2400e-003</b>	<b>0.0205</b>	<b>0.0181</b>	<b>7.0000e-005</b>	<b>4.7600e-003</b>	<b>7.0000e-005</b>	<b>4.8400e-003</b>	<b>1.2800e-003</b>	<b>7.0000e-005</b>	<b>1.3600e-003</b>	<b>0.0000</b>	<b>6.9365</b>	<b>6.9365</b>	<b>3.2000e-004</b>	<b>0.0000</b>	<b>6.9445</b>

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**3.2 Building Construction - 2021**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0906	0.6818	0.6450	1.1000e-003		0.0342	0.0342		0.0330	0.0330	0.0000	90.7737	90.7737	0.0162	0.0000	91.1788
<b>Total</b>	<b>0.0906</b>	<b>0.6818</b>	<b>0.6450</b>	<b>1.1000e-003</b>		<b>0.0342</b>	<b>0.0342</b>		<b>0.0330</b>	<b>0.0330</b>	<b>0.0000</b>	<b>90.7737</b>	<b>90.7737</b>	<b>0.0162</b>	<b>0.0000</b>	<b>91.1788</b>

**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	6.1000e-004	0.0190	5.5800e-003	4.0000e-005	9.1000e-004	5.0000e-005	9.6000e-004	2.6000e-004	5.0000e-005	3.1000e-004	0.0000	3.8247	3.8247	2.3000e-004	0.0000	3.8303
Worker	1.6300e-003	1.4200e-003	0.0125	3.0000e-005	3.8500e-003	2.0000e-005	3.8800e-003	1.0200e-003	2.0000e-005	1.0500e-003	0.0000	3.1118	3.1118	9.0000e-005	0.0000	3.1142
<b>Total</b>	<b>2.2400e-003</b>	<b>0.0205</b>	<b>0.0181</b>	<b>7.0000e-005</b>	<b>4.7600e-003</b>	<b>7.0000e-005</b>	<b>4.8400e-003</b>	<b>1.2800e-003</b>	<b>7.0000e-005</b>	<b>1.3600e-003</b>	<b>0.0000</b>	<b>6.9365</b>	<b>6.9365</b>	<b>3.2000e-004</b>	<b>0.0000</b>	<b>6.9445</b>

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**3.3 Paving - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.9300e-003	0.0194	0.0221	3.0000e-005		1.0400e-003	1.0400e-003		9.6000e-004	9.6000e-004	0.0000	2.9412	2.9412	9.3000e-004	0.0000	2.9646
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>1.9300e-003</b>	<b>0.0194</b>	<b>0.0221</b>	<b>3.0000e-005</b>		<b>1.0400e-003</b>	<b>1.0400e-003</b>		<b>9.6000e-004</b>	<b>9.6000e-004</b>	<b>0.0000</b>	<b>2.9412</b>	<b>2.9412</b>	<b>9.3000e-004</b>	<b>0.0000</b>	<b>2.9646</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.3000e-004	1.2000e-004	1.0100e-003	0.0000	3.1000e-004	0.0000	3.1000e-004	8.0000e-005	0.0000	8.0000e-005	0.0000	0.2528	0.2528	1.0000e-005	0.0000	0.2530
<b>Total</b>	<b>1.3000e-004</b>	<b>1.2000e-004</b>	<b>1.0100e-003</b>	<b>0.0000</b>	<b>3.1000e-004</b>	<b>0.0000</b>	<b>3.1000e-004</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>0.2528</b>	<b>0.2528</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.2530</b>

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**3.3 Paving - 2021**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.9300e-003	0.0194	0.0221	3.0000e-005		1.0400e-003	1.0400e-003		9.6000e-004	9.6000e-004	0.0000	2.9412	2.9412	9.3000e-004	0.0000	2.9646
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>1.9300e-003</b>	<b>0.0194</b>	<b>0.0221</b>	<b>3.0000e-005</b>		<b>1.0400e-003</b>	<b>1.0400e-003</b>		<b>9.6000e-004</b>	<b>9.6000e-004</b>	<b>0.0000</b>	<b>2.9412</b>	<b>2.9412</b>	<b>9.3000e-004</b>	<b>0.0000</b>	<b>2.9646</b>

**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	1.3000e-004	1.2000e-004	1.0100e-003	0.0000	3.1000e-004	0.0000	3.1000e-004	8.0000e-005	0.0000	8.0000e-005	0.0000	0.2528	0.2528	1.0000e-005	0.0000	0.2530
<b>Total</b>	<b>1.3000e-004</b>	<b>1.2000e-004</b>	<b>1.0100e-003</b>	<b>0.0000</b>	<b>3.1000e-004</b>	<b>0.0000</b>	<b>3.1000e-004</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>0.2528</b>	<b>0.2528</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.2530</b>



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**3.4 Architectural Coating - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.1448					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.5000e-004	3.8200e-003	4.5400e-003	1.0000e-005		2.4000e-004	2.4000e-004		2.4000e-004	2.4000e-004	0.0000	0.6383	0.6383	4.0000e-005	0.0000	0.6394
<b>Total</b>	<b>0.1454</b>	<b>3.8200e-003</b>	<b>4.5400e-003</b>	<b>1.0000e-005</b>		<b>2.4000e-004</b>	<b>2.4000e-004</b>		<b>2.4000e-004</b>	<b>2.4000e-004</b>	<b>0.0000</b>	<b>0.6383</b>	<b>0.6383</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>0.6394</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.0000e-005	2.0000e-005	1.6000e-004	0.0000	5.0000e-005	0.0000	5.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0389	0.0389	0.0000	0.0000	0.0389
<b>Total</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>1.6000e-004</b>	<b>0.0000</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>5.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.0389</b>	<b>0.0389</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0389</b>

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**3.4 Architectural Coating - 2021**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.1448					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.5000e-004	3.8200e-003	4.5400e-003	1.0000e-005		2.4000e-004	2.4000e-004		2.4000e-004	2.4000e-004	0.0000	0.6383	0.6383	4.0000e-005	0.0000	0.6394
<b>Total</b>	<b>0.1454</b>	<b>3.8200e-003</b>	<b>4.5400e-003</b>	<b>1.0000e-005</b>		<b>2.4000e-004</b>	<b>2.4000e-004</b>		<b>2.4000e-004</b>	<b>2.4000e-004</b>	<b>0.0000</b>	<b>0.6383</b>	<b>0.6383</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>0.6394</b>

**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	2.0000e-005	2.0000e-005	1.6000e-004	0.0000	5.0000e-005	0.0000	5.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0389	0.0389	0.0000	0.0000	0.0389
<b>Total</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>1.6000e-004</b>	<b>0.0000</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>5.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.0389</b>	<b>0.0389</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0389</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0668	0.2810	0.7406	2.1300e-003	0.1947	2.2000e-003	0.1969	0.0521	2.0700e-003	0.0542	0.0000	195.0057	195.0057	7.8300e-003	0.0000	195.2014
Unmitigated	0.0668	0.2810	0.7406	2.1300e-003	0.1947	2.2000e-003	0.1969	0.0521	2.0700e-003	0.0542	0.0000	195.0057	195.0057	7.8300e-003	0.0000	195.2014

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	300.00	67.00	28.50	518,513	518,513
Total	300.00	67.00	28.50	518,513	518,513

**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
General Office Building	13.00	5.00	5.00	33.00	48.00	19.00	77	19	4

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	0.575581	0.029595	0.198288	0.120539	0.026172	0.006482	0.012911	0.019591	0.002354	0.001214	0.005068	0.000784	0.001422

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**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	132.5102	132.5102	5.9900e-003	1.2400e-003	133.0294
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	132.5102	132.5102	5.9900e-003	1.2400e-003	133.0294
NaturalGas Mitigated	2.2200e-003	0.0202	0.0169	1.2000e-004		1.5300e-003	1.5300e-003		1.5300e-003	1.5300e-003	0.0000	21.9459	21.9459	4.2000e-004	4.0000e-004	22.0763
NaturalGas Unmitigated	2.2200e-003	0.0202	0.0169	1.2000e-004		1.5300e-003	1.5300e-003		1.5300e-003	1.5300e-003	0.0000	21.9459	21.9459	4.2000e-004	4.0000e-004	22.0763

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**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Office Building	411250	2.2200e-003	0.0202	0.0169	1.2000e-004		1.5300e-003	1.5300e-003		1.5300e-003	1.5300e-003	0.0000	21.9459	21.9459	4.2000e-004	4.0000e-004	22.0763
<b>Total</b>		<b>2.2200e-003</b>	<b>0.0202</b>	<b>0.0169</b>	<b>1.2000e-004</b>		<b>1.5300e-003</b>	<b>1.5300e-003</b>		<b>1.5300e-003</b>	<b>1.5300e-003</b>	<b>0.0000</b>	<b>21.9459</b>	<b>21.9459</b>	<b>4.2000e-004</b>	<b>4.0000e-004</b>	<b>22.0763</b>

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Office Building	411250	2.2200e-003	0.0202	0.0169	1.2000e-004		1.5300e-003	1.5300e-003		1.5300e-003	1.5300e-003	0.0000	21.9459	21.9459	4.2000e-004	4.0000e-004	22.0763
<b>Total</b>		<b>2.2200e-003</b>	<b>0.0202</b>	<b>0.0169</b>	<b>1.2000e-004</b>		<b>1.5300e-003</b>	<b>1.5300e-003</b>		<b>1.5300e-003</b>	<b>1.5300e-003</b>	<b>0.0000</b>	<b>21.9459</b>	<b>21.9459</b>	<b>4.2000e-004</b>	<b>4.0000e-004</b>	<b>22.0763</b>

San Luis Ranch Project - 2021 Start - San Luis Obispo County APCD Air District, Annual

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	455500	132.5102	5.9900e-003	1.2400e-003	133.0294
<b>Total</b>		<b>132.5102</b>	<b>5.9900e-003</b>	<b>1.2400e-003</b>	<b>133.0294</b>

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	455500	132.5102	5.9900e-003	1.2400e-003	133.0294
<b>Total</b>		<b>132.5102</b>	<b>5.9900e-003</b>	<b>1.2400e-003</b>	<b>133.0294</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.1267	0.0000	4.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	8.2000e-004	8.2000e-004	0.0000	0.0000	8.7000e-004
Unmitigated	0.1267	0.0000	4.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	8.2000e-004	8.2000e-004	0.0000	0.0000	8.7000e-004

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0290					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0976					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.0000e-005	0.0000	4.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	8.2000e-004	8.2000e-004	0.0000	0.0000	8.7000e-004
<b>Total</b>	<b>0.1267</b>	<b>0.0000</b>	<b>4.2000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>8.2000e-004</b>	<b>8.2000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>8.7000e-004</b>

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**6.2 Area by SubCategory**

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0290					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0976					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.0000e-005	0.0000	4.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	8.2000e-004	8.2000e-004	0.0000	0.0000	8.7000e-004
<b>Total</b>	<b>0.1267</b>	<b>0.0000</b>	<b>4.2000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>8.2000e-004</b>	<b>8.2000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>8.7000e-004</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**



San Luis Ranch Project - 2021 Start - San Luis Obispo County APCD Air District, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	11.1769	0.1452	3.5100e-003	15.8536
Unmitigated	11.1769	0.1452	3.5100e-003	15.8536

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	4.44334 / 2.72334	11.1769	0.1452	3.5100e-003	15.8536
<b>Total</b>		<b>11.1769</b>	<b>0.1452</b>	<b>3.5100e-003</b>	<b>15.8536</b>

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**7.2 Water by Land Use**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	4.44334 / 2.72334	11.1769	0.1452	3.5100e-003	15.8536
<b>Total</b>		<b>11.1769</b>	<b>0.1452</b>	<b>3.5100e-003</b>	<b>15.8536</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	4.7195	0.2789	0.0000	11.6925
Unmitigated	4.7195	0.2789	0.0000	11.6925

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**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	23.25	4.7195	0.2789	0.0000	11.6925
<b>Total</b>		<b>4.7195</b>	<b>0.2789</b>	<b>0.0000</b>	<b>11.6925</b>

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	23.25	4.7195	0.2789	0.0000	11.6925
<b>Total</b>		<b>4.7195</b>	<b>0.2789</b>	<b>0.0000</b>	<b>11.6925</b>

**9.0 Operational Offroad**

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

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**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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**11.0 Vegetation**

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San Luis Ranch Project - 2021 Start - San Luis Obispo County APCD Air District, Summer

**San Luis Ranch Project - 2021 Start**  
**San Luis Obispo County APCD Air District, Summer**

**1.0 Project Characteristics**

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**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	25.00	1000sqft	1.30	25,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	3.2	<b>Precipitation Freq (Days)</b>	44
<b>Climate Zone</b>	4			<b>Operational Year</b>	2022
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MW hr)</b>	641.35	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

**1.3 User Entered Comments & Non-Default Data**

San Luis Ranch Project - 2021 Start - San Luis Obispo County APCD Air District, Summer

Project Characteristics -

Land Use - Land use values from buildout and phasing in Specific Plan Section 7.7. Includes portions of Phase 5.

Construction Phase - Demolition, site prep and grading would be completed 2018-2020 for Phase 5.

Off-road Equipment -

Demolition - Building sf estimated using Google Earth

Grading - Soil import completed in 2020

Architectural Coating -

Vehicle Trips - Trip generation rate based on Omni-Means 2016 Traffic Impact Study.

Mobile Land Use Mitigation - Trip reductions from project's density, diversity, and access to alternative transportation accounted for in trip generation rates.

Energy Mitigation -

Water Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	0
tblLandUse	LotAcreage	0.57	1.30
tblProjectCharacteristics	OperationalYear	2018	2022
tblVehicleTrips	ST_TR	2.46	2.68
tblVehicleTrips	SU_TR	1.05	1.14
tblVehicleTrips	WD_TR	11.03	12.00

**2.0 Emissions Summary**

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San Luis Ranch Project - 2021 Start - San Luis Obispo County APCD Air District, Summer

**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	0.6940	2.0000e-005	2.5600e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		5.4700e-003	5.4700e-003	1.0000e-005		5.8300e-003
Energy	0.0122	0.1105	0.0928	6.6000e-004		8.4000e-003	8.4000e-003		8.4000e-003	8.4000e-003		132.5544	132.5544	2.5400e-003	2.4300e-003	133.3421
Mobile	0.5107	1.9597	5.3285	0.0159	1.4456	0.0159	1.4614	0.3862	0.0149	0.4011		1,606.1862	1,606.1862	0.0623		1,607.7424
<b>Total</b>	<b>1.2168</b>	<b>2.0702</b>	<b>5.4238</b>	<b>0.0166</b>	<b>1.4456</b>	<b>0.0243</b>	<b>1.4699</b>	<b>0.3862</b>	<b>0.0233</b>	<b>0.4095</b>		<b>1,738.7460</b>	<b>1,738.7460</b>	<b>0.0648</b>	<b>2.4300e-003</b>	<b>1,741.0904</b>

**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	0.6940	2.0000e-005	2.5600e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		5.4700e-003	5.4700e-003	1.0000e-005		5.8300e-003
Energy	0.0122	0.1105	0.0928	6.6000e-004		8.4000e-003	8.4000e-003		8.4000e-003	8.4000e-003		132.5544	132.5544	2.5400e-003	2.4300e-003	133.3421
Mobile	0.5107	1.9597	5.3285	0.0159	1.4456	0.0159	1.4614	0.3862	0.0149	0.4011		1,606.1862	1,606.1862	0.0623		1,607.7424
<b>Total</b>	<b>1.2168</b>	<b>2.0702</b>	<b>5.4238</b>	<b>0.0166</b>	<b>1.4456</b>	<b>0.0243</b>	<b>1.4699</b>	<b>0.3862</b>	<b>0.0233</b>	<b>0.4095</b>		<b>1,738.7460</b>	<b>1,738.7460</b>	<b>0.0648</b>	<b>2.4300e-003</b>	<b>1,741.0904</b>



San Luis Ranch Project - 2021 Start - San Luis Obispo County APCD Air District, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

### 3.0 Construction Detail

#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Building Construction	Building Construction	1/1/2021	5/20/2021	5	200	
2	Paving	Paving	5/21/2021	5/27/2021	5	10	
3	Architectural Coating	Architectural Coating	5/28/2021	6/3/2021	5	10	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 37,500; Non-Residential Outdoor: 12,500; Striped Parking Area: 0 (Architectural Coating – sqft)

#### OffRoad Equipment

San Luis Ranch Project - 2021 Start - San Luis Obispo County APCD Air District, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Construction	Cranes	1	6.00	231	0.29
Building Construction	Forklifts	1	6.00	89	0.20
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Paving	Cement and Mortar Mixers	1	6.00	9	0.56
Paving	Pavers	1	6.00	130	0.42
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48
Building Construction	Generator Sets	1	8.00	84	0.74
Paving	Paving Equipment	1	8.00	132	0.36
Building Construction	Welders	3	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
Building Construction	7	8.00	4.00	0.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	13.00	0.00	0.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	2.00	0.00	0.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

San Luis Ranch Project - 2021 Start - San Luis Obispo County APCD Air District, Summer

**3.2 Building Construction - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.8125	13.6361	12.8994	0.0221		0.6843	0.6843		0.6608	0.6608		2,001.2200	2,001.2200	0.3573		2,010.1517
<b>Total</b>	<b>1.8125</b>	<b>13.6361</b>	<b>12.8994</b>	<b>0.0221</b>		<b>0.6843</b>	<b>0.6843</b>		<b>0.6608</b>	<b>0.6608</b>		<b>2,001.2200</b>	<b>2,001.2200</b>	<b>0.3573</b>		<b>2,010.1517</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0119	0.3781	0.1043	8.0000e-004	0.0186	1.0600e-003	0.0196	5.3500e-003	1.0100e-003	6.3600e-003		85.4226	85.4226	4.8100e-003		85.5429
Worker	0.0319	0.0255	0.2579	7.2000e-004	0.0791	4.9000e-004	0.0796	0.0210	4.5000e-004	0.0214		71.3922	71.3922	2.1400e-003		71.4458
<b>Total</b>	<b>0.0437</b>	<b>0.4036</b>	<b>0.3622</b>	<b>1.5200e-003</b>	<b>0.0977</b>	<b>1.5500e-003</b>	<b>0.0992</b>	<b>0.0263</b>	<b>1.4600e-003</b>	<b>0.0278</b>		<b>156.8148</b>	<b>156.8148</b>	<b>6.9500e-003</b>		<b>156.9887</b>

San Luis Ranch Project - 2021 Start - San Luis Obispo County APCD Air District, Summer

**3.2 Building Construction - 2021**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.8125	13.6361	12.8994	0.0221		0.6843	0.6843		0.6608	0.6608	0.0000	2,001.2200	2,001.2200	0.3573		2,010.1517
<b>Total</b>	<b>1.8125</b>	<b>13.6361</b>	<b>12.8994</b>	<b>0.0221</b>		<b>0.6843</b>	<b>0.6843</b>		<b>0.6608</b>	<b>0.6608</b>	<b>0.0000</b>	<b>2,001.2200</b>	<b>2,001.2200</b>	<b>0.3573</b>		<b>2,010.1517</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0119	0.3781	0.1043	8.0000e-004	0.0186	1.0600e-003	0.0196	5.3500e-003	1.0100e-003	6.3600e-003		85.4226	85.4226	4.8100e-003		85.5429
Worker	0.0319	0.0255	0.2579	7.2000e-004	0.0791	4.9000e-004	0.0796	0.0210	4.5000e-004	0.0214		71.3922	71.3922	2.1400e-003		71.4458
<b>Total</b>	<b>0.0437</b>	<b>0.4036</b>	<b>0.3622</b>	<b>1.5200e-003</b>	<b>0.0977</b>	<b>1.5500e-003</b>	<b>0.0992</b>	<b>0.0263</b>	<b>1.4600e-003</b>	<b>0.0278</b>		<b>156.8148</b>	<b>156.8148</b>	<b>6.9500e-003</b>		<b>156.9887</b>

San Luis Ranch Project - 2021 Start - San Luis Obispo County APCD Air District, Summer

**3.3 Paving - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7739	7.7422	8.8569	0.0135		0.4153	0.4153		0.3830	0.3830		1,296.8664	1,296.8664	0.4111		1,307.1442
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.7739</b>	<b>7.7422</b>	<b>8.8569</b>	<b>0.0135</b>		<b>0.4153</b>	<b>0.4153</b>		<b>0.3830</b>	<b>0.3830</b>		<b>1,296.8664</b>	<b>1,296.8664</b>	<b>0.4111</b>		<b>1,307.1442</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0518	0.0415	0.4191	1.1600e-003	0.1285	8.0000e-004	0.1293	0.0341	7.3000e-004	0.0348		116.0123	116.0123	3.4800e-003		116.0994
<b>Total</b>	<b>0.0518</b>	<b>0.0415</b>	<b>0.4191</b>	<b>1.1600e-003</b>	<b>0.1285</b>	<b>8.0000e-004</b>	<b>0.1293</b>	<b>0.0341</b>	<b>7.3000e-004</b>	<b>0.0348</b>		<b>116.0123</b>	<b>116.0123</b>	<b>3.4800e-003</b>		<b>116.0994</b>

San Luis Ranch Project - 2021 Start - San Luis Obispo County APCD Air District, Summer

**3.3 Paving - 2021**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7739	7.7422	8.8569	0.0135		0.4153	0.4153		0.3830	0.3830	0.0000	1,296.8664	1,296.8664	0.4111		1,307.1442
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.7739</b>	<b>7.7422</b>	<b>8.8569</b>	<b>0.0135</b>		<b>0.4153</b>	<b>0.4153</b>		<b>0.3830</b>	<b>0.3830</b>	<b>0.0000</b>	<b>1,296.8664</b>	<b>1,296.8664</b>	<b>0.4111</b>		<b>1,307.1442</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0518	0.0415	0.4191	1.1600e-003	0.1285	8.0000e-004	0.1293	0.0341	7.3000e-004	0.0348		116.0123	116.0123	3.4800e-003		116.0994
<b>Total</b>	<b>0.0518</b>	<b>0.0415</b>	<b>0.4191</b>	<b>1.1600e-003</b>	<b>0.1285</b>	<b>8.0000e-004</b>	<b>0.1293</b>	<b>0.0341</b>	<b>7.3000e-004</b>	<b>0.0348</b>		<b>116.0123</b>	<b>116.0123</b>	<b>3.4800e-003</b>		<b>116.0994</b>

San Luis Ranch Project - 2021 Start - San Luis Obispo County APCD Air District, Summer

**3.4 Architectural Coating - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	57.9375					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309
<b>Total</b>	<b>58.1564</b>	<b>1.5268</b>	<b>1.8176</b>	<b>2.9700e-003</b>		<b>0.0941</b>	<b>0.0941</b>		<b>0.0941</b>	<b>0.0941</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0193</b>		<b>281.9309</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	7.9700e-003	6.3800e-003	0.0645	1.8000e-004	0.0198	1.2000e-004	0.0199	5.2400e-003	1.1000e-004	5.3600e-003		17.8480	17.8480	5.4000e-004		17.8614
<b>Total</b>	<b>7.9700e-003</b>	<b>6.3800e-003</b>	<b>0.0645</b>	<b>1.8000e-004</b>	<b>0.0198</b>	<b>1.2000e-004</b>	<b>0.0199</b>	<b>5.2400e-003</b>	<b>1.1000e-004</b>	<b>5.3600e-003</b>		<b>17.8480</b>	<b>17.8480</b>	<b>5.4000e-004</b>		<b>17.8614</b>

San Luis Ranch Project - 2021 Start - San Luis Obispo County APCD Air District, Summer

**3.4 Architectural Coating - 2021**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	57.9375					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941	0.0000	281.4481	281.4481	0.0193		281.9309
<b>Total</b>	<b>58.1564</b>	<b>1.5268</b>	<b>1.8176</b>	<b>2.9700e-003</b>		<b>0.0941</b>	<b>0.0941</b>		<b>0.0941</b>	<b>0.0941</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0193</b>		<b>281.9309</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	7.9700e-003	6.3800e-003	0.0645	1.8000e-004	0.0198	1.2000e-004	0.0199	5.2400e-003	1.1000e-004	5.3600e-003		17.8480	17.8480	5.4000e-004		17.8614
<b>Total</b>	<b>7.9700e-003</b>	<b>6.3800e-003</b>	<b>0.0645</b>	<b>1.8000e-004</b>	<b>0.0198</b>	<b>1.2000e-004</b>	<b>0.0199</b>	<b>5.2400e-003</b>	<b>1.1000e-004</b>	<b>5.3600e-003</b>		<b>17.8480</b>	<b>17.8480</b>	<b>5.4000e-004</b>		<b>17.8614</b>

**4.0 Operational Detail - Mobile**

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San Luis Ranch Project - 2021 Start - San Luis Obispo County APCD Air District, Summer

**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.5107	1.9597	5.3285	0.0159	1.4456	0.0159	1.4614	0.3862	0.0149	0.4011		1,606.186 2	1,606.186 2	0.0623		1,607.742 4
Unmitigated	0.5107	1.9597	5.3285	0.0159	1.4456	0.0159	1.4614	0.3862	0.0149	0.4011		1,606.186 2	1,606.186 2	0.0623		1,607.742 4

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	300.00	67.00	28.50	518,513	518,513
Total	300.00	67.00	28.50	518,513	518,513

**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
General Office Building	13.00	5.00	5.00	33.00	48.00	19.00	77	19	4

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	0.575581	0.029595	0.198288	0.120539	0.026172	0.006482	0.012911	0.019591	0.002354	0.001214	0.005068	0.000784	0.001422

San Luis Ranch Project - 2021 Start - San Luis Obispo County APCD Air District, Summer

**5.0 Energy Detail**

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Historical Energy Use: N

**5.1 Mitigation Measures Energy**

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0122	0.1105	0.0928	6.6000e-004		8.4000e-003	8.4000e-003		8.4000e-003	8.4000e-003		132.5544	132.5544	2.5400e-003	2.4300e-003	133.3421
NaturalGas Unmitigated	0.0122	0.1105	0.0928	6.6000e-004		8.4000e-003	8.4000e-003		8.4000e-003	8.4000e-003		132.5544	132.5544	2.5400e-003	2.4300e-003	133.3421

San Luis Ranch Project - 2021 Start - San Luis Obispo County APCD Air District, Summer

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Office Building	1126.71	0.0122	0.1105	0.0928	6.6000e-004		8.4000e-003	8.4000e-003		8.4000e-003	8.4000e-003		132.5544	132.5544	2.5400e-003	2.4300e-003	133.3421
<b>Total</b>		<b>0.0122</b>	<b>0.1105</b>	<b>0.0928</b>	<b>6.6000e-004</b>		<b>8.4000e-003</b>	<b>8.4000e-003</b>		<b>8.4000e-003</b>	<b>8.4000e-003</b>		<b>132.5544</b>	<b>132.5544</b>	<b>2.5400e-003</b>	<b>2.4300e-003</b>	<b>133.3421</b>

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Office Building	1.12671	0.0122	0.1105	0.0928	6.6000e-004		8.4000e-003	8.4000e-003		8.4000e-003	8.4000e-003		132.5544	132.5544	2.5400e-003	2.4300e-003	133.3421
<b>Total</b>		<b>0.0122</b>	<b>0.1105</b>	<b>0.0928</b>	<b>6.6000e-004</b>		<b>8.4000e-003</b>	<b>8.4000e-003</b>		<b>8.4000e-003</b>	<b>8.4000e-003</b>		<b>132.5544</b>	<b>132.5544</b>	<b>2.5400e-003</b>	<b>2.4300e-003</b>	<b>133.3421</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

San Luis Ranch Project - 2021 Start - San Luis Obispo County APCD Air District, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.6940	2.0000e-005	2.5600e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		5.4700e-003	5.4700e-003	1.0000e-005		5.8300e-003
Unmitigated	0.6940	2.0000e-005	2.5600e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		5.4700e-003	5.4700e-003	1.0000e-005		5.8300e-003

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.1587					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.5350					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.4000e-004	2.0000e-005	2.5600e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		5.4700e-003	5.4700e-003	1.0000e-005		5.8300e-003
<b>Total</b>	<b>0.6940</b>	<b>2.0000e-005</b>	<b>2.5600e-003</b>	<b>0.0000</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>		<b>5.4700e-003</b>	<b>5.4700e-003</b>	<b>1.0000e-005</b>		<b>5.8300e-003</b>

San Luis Ranch Project - 2021 Start - San Luis Obispo County APCD Air District, Summer

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.1587					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.5350					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.4000e-004	2.0000e-005	2.5600e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		5.4700e-003	5.4700e-003	1.0000e-005		5.8300e-003
<b>Total</b>	<b>0.6940</b>	<b>2.0000e-005</b>	<b>2.5600e-003</b>	<b>0.0000</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>		<b>5.4700e-003</b>	<b>5.4700e-003</b>	<b>1.0000e-005</b>		<b>5.8300e-003</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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

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Fire Pumps and Emergency Generators

San Luis Ranch Project - 2021 Start - San Luis Obispo County APCD Air District, Summer

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

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

Equipment Type	Number
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**11.0 Vegetation**

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San Luis Ranch Project - 2021 Start - San Luis Obispo County APCD Air District, Winter

**San Luis Ranch Project - 2021 Start**  
**San Luis Obispo County APCD Air District, Winter**

**1.0 Project Characteristics**

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**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	25.00	1000sqft	1.30	25,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	3.2	<b>Precipitation Freq (Days)</b>	44
<b>Climate Zone</b>	4			<b>Operational Year</b>	2022
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MW hr)</b>	641.35	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

**1.3 User Entered Comments & Non-Default Data**

San Luis Ranch Project - 2021 Start - San Luis Obispo County APCD Air District, Winter

Project Characteristics -

Land Use - Land use values from buildout and phasing in Specific Plan Section 7.7. Includes portions of Phase 5.

Construction Phase - Demolition, site prep and grading would be completed 2018-2020 for Phase 5.

Off-road Equipment -

Demolition - Building sf estimated using Google Earth

Grading - Soil import completed in 2020

Architectural Coating -

Vehicle Trips - Trip generation rate based on Omni-Means 2016 Traffic Impact Study.

Mobile Land Use Mitigation - Trip reductions from project's density, diversity, and access to alternative transportation accounted for in trip generation rates.

Energy Mitigation -

Water Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	0
tblLandUse	LotAcreage	0.57	1.30
tblProjectCharacteristics	OperationalYear	2018	2022
tblVehicleTrips	ST_TR	2.46	2.68
tblVehicleTrips	SU_TR	1.05	1.14
tblVehicleTrips	WD_TR	11.03	12.00

**2.0 Emissions Summary**

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San Luis Ranch Project - 2021 Start - San Luis Obispo County APCD Air District, Winter

**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	0.6940	2.0000e-005	2.5600e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		5.4700e-003	5.4700e-003	1.0000e-005		5.8300e-003
Energy	0.0122	0.1105	0.0928	6.6000e-004		8.4000e-003	8.4000e-003		8.4000e-003	8.4000e-003		132.5544	132.5544	2.5400e-003	2.4300e-003	133.3421
Mobile	0.4937	2.0281	5.4653	0.0153	1.4456	0.0161	1.4616	0.3862	0.0151	0.4012		1,542.6266	1,542.6266	0.0632		1,544.2076
<b>Total</b>	<b>1.1998</b>	<b>2.1385</b>	<b>5.5607</b>	<b>0.0160</b>	<b>1.4456</b>	<b>0.0245</b>	<b>1.4700</b>	<b>0.3862</b>	<b>0.0235</b>	<b>0.4096</b>		<b>1,675.1864</b>	<b>1,675.1864</b>	<b>0.0658</b>	<b>2.4300e-003</b>	<b>1,677.5555</b>

**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	0.6940	2.0000e-005	2.5600e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		5.4700e-003	5.4700e-003	1.0000e-005		5.8300e-003
Energy	0.0122	0.1105	0.0928	6.6000e-004		8.4000e-003	8.4000e-003		8.4000e-003	8.4000e-003		132.5544	132.5544	2.5400e-003	2.4300e-003	133.3421
Mobile	0.4937	2.0281	5.4653	0.0153	1.4456	0.0161	1.4616	0.3862	0.0151	0.4012		1,542.6266	1,542.6266	0.0632		1,544.2076
<b>Total</b>	<b>1.1998</b>	<b>2.1385</b>	<b>5.5607</b>	<b>0.0160</b>	<b>1.4456</b>	<b>0.0245</b>	<b>1.4700</b>	<b>0.3862</b>	<b>0.0235</b>	<b>0.4096</b>		<b>1,675.1864</b>	<b>1,675.1864</b>	<b>0.0658</b>	<b>2.4300e-003</b>	<b>1,677.5555</b>

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

### 3.0 Construction Detail

#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Building Construction	Building Construction	1/1/2021	5/20/2021	5	200	
2	Paving	Paving	5/21/2021	5/27/2021	5	10	
3	Architectural Coating	Architectural Coating	5/28/2021	6/3/2021	5	10	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 37,500; Non-Residential Outdoor: 12,500; Striped Parking Area: 0 (Architectural Coating – sqft)

#### OffRoad Equipment

San Luis Ranch Project - 2021 Start - San Luis Obispo County APCD Air District, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Construction	Cranes	1	6.00	231	0.29
Building Construction	Forklifts	1	6.00	89	0.20
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Paving	Cement and Mortar Mixers	1	6.00	9	0.56
Paving	Pavers	1	6.00	130	0.42
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48
Building Construction	Generator Sets	1	8.00	84	0.74
Paving	Paving Equipment	1	8.00	132	0.36
Building Construction	Welders	3	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
Building Construction	7	8.00	4.00	0.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	13.00	0.00	0.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	2.00	0.00	0.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

San Luis Ranch Project - 2021 Start - San Luis Obispo County APCD Air District, Winter

**3.2 Building Construction - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.8125	13.6361	12.8994	0.0221		0.6843	0.6843		0.6608	0.6608		2,001.2200	2,001.2200	0.3573		2,010.1517
<b>Total</b>	<b>1.8125</b>	<b>13.6361</b>	<b>12.8994</b>	<b>0.0221</b>		<b>0.6843</b>	<b>0.6843</b>		<b>0.6608</b>	<b>0.6608</b>		<b>2,001.2200</b>	<b>2,001.2200</b>	<b>0.3573</b>		<b>2,010.1517</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0126	0.3756	0.1181	7.8000e-004	0.0186	1.1200e-003	0.0197	5.3500e-003	1.0700e-003	6.4200e-003		82.8014	82.8014	5.1500e-003		82.9303
Worker	0.0364	0.0290	0.2502	6.8000e-004	0.0791	4.9000e-004	0.0796	0.0210	4.5000e-004	0.0214		68.0491	68.0491	2.0700e-003		68.1008
<b>Total</b>	<b>0.0490</b>	<b>0.4046</b>	<b>0.3683</b>	<b>1.4600e-003</b>	<b>0.0977</b>	<b>1.6100e-003</b>	<b>0.0993</b>	<b>0.0263</b>	<b>1.5200e-003</b>	<b>0.0279</b>		<b>150.8505</b>	<b>150.8505</b>	<b>7.2200e-003</b>		<b>151.0311</b>

San Luis Ranch Project - 2021 Start - San Luis Obispo County APCD Air District, Winter

**3.2 Building Construction - 2021**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.8125	13.6361	12.8994	0.0221		0.6843	0.6843		0.6608	0.6608	0.0000	2,001.2200	2,001.2200	0.3573		2,010.1517
<b>Total</b>	<b>1.8125</b>	<b>13.6361</b>	<b>12.8994</b>	<b>0.0221</b>		<b>0.6843</b>	<b>0.6843</b>		<b>0.6608</b>	<b>0.6608</b>	<b>0.0000</b>	<b>2,001.2200</b>	<b>2,001.2200</b>	<b>0.3573</b>		<b>2,010.1517</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0126	0.3756	0.1181	7.8000e-004	0.0186	1.1200e-003	0.0197	5.3500e-003	1.0700e-003	6.4200e-003		82.8014	82.8014	5.1500e-003		82.9303
Worker	0.0364	0.0290	0.2502	6.8000e-004	0.0791	4.9000e-004	0.0796	0.0210	4.5000e-004	0.0214		68.0491	68.0491	2.0700e-003		68.1008
<b>Total</b>	<b>0.0490</b>	<b>0.4046</b>	<b>0.3683</b>	<b>1.4600e-003</b>	<b>0.0977</b>	<b>1.6100e-003</b>	<b>0.0993</b>	<b>0.0263</b>	<b>1.5200e-003</b>	<b>0.0279</b>		<b>150.8505</b>	<b>150.8505</b>	<b>7.2200e-003</b>		<b>151.0311</b>

San Luis Ranch Project - 2021 Start - San Luis Obispo County APCD Air District, Winter

**3.3 Paving - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7739	7.7422	8.8569	0.0135		0.4153	0.4153		0.3830	0.3830		1,296.8664	1,296.8664	0.4111		1,307.1442
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.7739</b>	<b>7.7422</b>	<b>8.8569</b>	<b>0.0135</b>		<b>0.4153</b>	<b>0.4153</b>		<b>0.3830</b>	<b>0.3830</b>		<b>1,296.8664</b>	<b>1,296.8664</b>	<b>0.4111</b>		<b>1,307.1442</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0592	0.0471	0.4066	1.1100e-003	0.1285	8.0000e-004	0.1293	0.0341	7.3000e-004	0.0348		110.5798	110.5798	3.3600e-003		110.6638
<b>Total</b>	<b>0.0592</b>	<b>0.0471</b>	<b>0.4066</b>	<b>1.1100e-003</b>	<b>0.1285</b>	<b>8.0000e-004</b>	<b>0.1293</b>	<b>0.0341</b>	<b>7.3000e-004</b>	<b>0.0348</b>		<b>110.5798</b>	<b>110.5798</b>	<b>3.3600e-003</b>		<b>110.6638</b>

San Luis Ranch Project - 2021 Start - San Luis Obispo County APCD Air District, Winter

**3.3 Paving - 2021**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7739	7.7422	8.8569	0.0135		0.4153	0.4153		0.3830	0.3830	0.0000	1,296.8664	1,296.8664	0.4111		1,307.1442
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.7739</b>	<b>7.7422</b>	<b>8.8569</b>	<b>0.0135</b>		<b>0.4153</b>	<b>0.4153</b>		<b>0.3830</b>	<b>0.3830</b>	<b>0.0000</b>	<b>1,296.8664</b>	<b>1,296.8664</b>	<b>0.4111</b>		<b>1,307.1442</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0592	0.0471	0.4066	1.1100e-003	0.1285	8.0000e-004	0.1293	0.0341	7.3000e-004	0.0348		110.5798	110.5798	3.3600e-003		110.6638
<b>Total</b>	<b>0.0592</b>	<b>0.0471</b>	<b>0.4066</b>	<b>1.1100e-003</b>	<b>0.1285</b>	<b>8.0000e-004</b>	<b>0.1293</b>	<b>0.0341</b>	<b>7.3000e-004</b>	<b>0.0348</b>		<b>110.5798</b>	<b>110.5798</b>	<b>3.3600e-003</b>		<b>110.6638</b>



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**3.4 Architectural Coating - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	57.9375					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309
<b>Total</b>	<b>58.1564</b>	<b>1.5268</b>	<b>1.8176</b>	<b>2.9700e-003</b>		<b>0.0941</b>	<b>0.0941</b>		<b>0.0941</b>	<b>0.0941</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0193</b>		<b>281.9309</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	9.1000e-003	7.2400e-003	0.0626	1.7000e-004	0.0198	1.2000e-004	0.0199	5.2400e-003	1.1000e-004	5.3600e-003		17.0123	17.0123	5.2000e-004		17.0252
<b>Total</b>	<b>9.1000e-003</b>	<b>7.2400e-003</b>	<b>0.0626</b>	<b>1.7000e-004</b>	<b>0.0198</b>	<b>1.2000e-004</b>	<b>0.0199</b>	<b>5.2400e-003</b>	<b>1.1000e-004</b>	<b>5.3600e-003</b>		<b>17.0123</b>	<b>17.0123</b>	<b>5.2000e-004</b>		<b>17.0252</b>

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**3.4 Architectural Coating - 2021**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	57.9375					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941	0.0000	281.4481	281.4481	0.0193		281.9309
<b>Total</b>	<b>58.1564</b>	<b>1.5268</b>	<b>1.8176</b>	<b>2.9700e-003</b>		<b>0.0941</b>	<b>0.0941</b>		<b>0.0941</b>	<b>0.0941</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0193</b>		<b>281.9309</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	9.1000e-003	7.2400e-003	0.0626	1.7000e-004	0.0198	1.2000e-004	0.0199	5.2400e-003	1.1000e-004	5.3600e-003		17.0123	17.0123	5.2000e-004		17.0252
<b>Total</b>	<b>9.1000e-003</b>	<b>7.2400e-003</b>	<b>0.0626</b>	<b>1.7000e-004</b>	<b>0.0198</b>	<b>1.2000e-004</b>	<b>0.0199</b>	<b>5.2400e-003</b>	<b>1.1000e-004</b>	<b>5.3600e-003</b>		<b>17.0123</b>	<b>17.0123</b>	<b>5.2000e-004</b>		<b>17.0252</b>

**4.0 Operational Detail - Mobile**

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San Luis Ranch Project - 2021 Start - San Luis Obispo County APCD Air District, Winter

**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.4937	2.0281	5.4653	0.0153	1.4456	0.0161	1.4616	0.3862	0.0151	0.4012		1,542.6266	1,542.6266	0.0632		1,544.2076
Unmitigated	0.4937	2.0281	5.4653	0.0153	1.4456	0.0161	1.4616	0.3862	0.0151	0.4012		1,542.6266	1,542.6266	0.0632		1,544.2076

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	300.00	67.00	28.50	518,513	518,513
Total	300.00	67.00	28.50	518,513	518,513

**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
General Office Building	13.00	5.00	5.00	33.00	48.00	19.00	77	19	4

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	0.575581	0.029595	0.198288	0.120539	0.026172	0.006482	0.012911	0.019591	0.002354	0.001214	0.005068	0.000784	0.001422

San Luis Ranch Project - 2021 Start - San Luis Obispo County APCD Air District, Winter

**5.0 Energy Detail**

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Historical Energy Use: N

**5.1 Mitigation Measures Energy**

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0122	0.1105	0.0928	6.6000e-004		8.4000e-003	8.4000e-003		8.4000e-003	8.4000e-003		132.5544	132.5544	2.5400e-003	2.4300e-003	133.3421
NaturalGas Unmitigated	0.0122	0.1105	0.0928	6.6000e-004		8.4000e-003	8.4000e-003		8.4000e-003	8.4000e-003		132.5544	132.5544	2.5400e-003	2.4300e-003	133.3421

San Luis Ranch Project - 2021 Start - San Luis Obispo County APCD Air District, Winter

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Office Building	1126.71	0.0122	0.1105	0.0928	6.6000e-004		8.4000e-003	8.4000e-003		8.4000e-003	8.4000e-003		132.5544	132.5544	2.5400e-003	2.4300e-003	133.3421
<b>Total</b>		<b>0.0122</b>	<b>0.1105</b>	<b>0.0928</b>	<b>6.6000e-004</b>		<b>8.4000e-003</b>	<b>8.4000e-003</b>		<b>8.4000e-003</b>	<b>8.4000e-003</b>		<b>132.5544</b>	<b>132.5544</b>	<b>2.5400e-003</b>	<b>2.4300e-003</b>	<b>133.3421</b>

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Office Building	1.12671	0.0122	0.1105	0.0928	6.6000e-004		8.4000e-003	8.4000e-003		8.4000e-003	8.4000e-003		132.5544	132.5544	2.5400e-003	2.4300e-003	133.3421
<b>Total</b>		<b>0.0122</b>	<b>0.1105</b>	<b>0.0928</b>	<b>6.6000e-004</b>		<b>8.4000e-003</b>	<b>8.4000e-003</b>		<b>8.4000e-003</b>	<b>8.4000e-003</b>		<b>132.5544</b>	<b>132.5544</b>	<b>2.5400e-003</b>	<b>2.4300e-003</b>	<b>133.3421</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

San Luis Ranch Project - 2021 Start - San Luis Obispo County APCD Air District, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.6940	2.0000e-005	2.5600e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		5.4700e-003	5.4700e-003	1.0000e-005		5.8300e-003
Unmitigated	0.6940	2.0000e-005	2.5600e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		5.4700e-003	5.4700e-003	1.0000e-005		5.8300e-003

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.1587					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.5350					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.4000e-004	2.0000e-005	2.5600e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		5.4700e-003	5.4700e-003	1.0000e-005		5.8300e-003
<b>Total</b>	<b>0.6940</b>	<b>2.0000e-005</b>	<b>2.5600e-003</b>	<b>0.0000</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>		<b>5.4700e-003</b>	<b>5.4700e-003</b>	<b>1.0000e-005</b>		<b>5.8300e-003</b>

San Luis Ranch Project - 2021 Start - San Luis Obispo County APCD Air District, Winter

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.1587					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.5350					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.4000e-004	2.0000e-005	2.5600e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005			5.4700e-003	5.4700e-003	1.0000e-005	5.8300e-003
<b>Total</b>	<b>0.6940</b>	<b>2.0000e-005</b>	<b>2.5600e-003</b>	<b>0.0000</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>			<b>5.4700e-003</b>	<b>5.4700e-003</b>	<b>1.0000e-005</b>	<b>5.8300e-003</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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

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Fire Pumps and Emergency Generators

San Luis Ranch Project - 2021 Start - San Luis Obispo County APCD Air District, Winter

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

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

Equipment Type	Number
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**11.0 Vegetation**

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San Luis Ranch Project - 2021 Start - San Luis Obispo County APCD Air District, Summary Report

**San Luis Ranch Project - 2021 Start**  
**San Luis Obispo County APCD, Summary Report**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	25.00	1000sqft	1.30	25,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	3.2	<b>Precipitation Freq (Days)</b>	44
<b>Climate Zone</b>	4			<b>Operational Year</b>	2022
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MW hr)</b>	641.35	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

**1.3 User Entered Comments**

Only CalEEMod defaults were used.





**Greenhouse Gas Emission Worksheet**  
**N2O Mobile Emissions**

San Luis Ranch Project - Unmitigated

From CalEEMod Vehicle Fleet Mix Output:

Annual VMT: 13,081,557

Vehicle Type	Percent Type***	CH4 Emission Factor (g/mile)*	CH4 Emission (g/mile)**	N2O Emission Factor (g/mile)*	N2O Emission (g/mile)**
Light Auto	55.0%	0.04	0.022	0.04	0.022
Light Truck < 3750 lbs	3.4%	0.05	0.0017	0.06	0.00204
Light Truck 3751-5750 lbs	19.9%	0.05	0.00995	0.06	0.01194
Med Truck 5751-8500 lbs	13.2%	0.12	0.01584	0.2	0.0264
Lite-Heavy Truck 8501-10,000 lbs	3.3%	0.12	0.00396	0.2	0.0066
Lite-Heavy Truck 10,001-14,000 lbs	0.8%	0.09	0.00072	0.125	0.001
Med-Heavy Truck 14,001-33,000 lbs	1.3%	0.06	0.00078	0.05	0.00065
Heavy-Heavy Truck 33,001-60,000 lbs	1.9%	0.06	0.00114	0.05	0.00095
Other Bus	0.2%	0.06	0.00012	0.05	0.0001
Urban Bus	0.1%	0.06	0.000066	0.05	0.000055
Motorcycle	0.6%	0.09	0.00054	0.01	0.00006
School Bus	0.1%	0.06	0.000048	0.05	0.00004
Motor Home	0.2%	0.09	0.000162	0.125	0.000225
<b>Total</b>	<b>100.0%</b>		<b>0.057026</b>		<b>0.07206</b>

**Total Emissions (metric tons) =**  
**Emission Factor by Vehicle Mix (g/mi) x Annual VMT(mi) x 0.000001 metric tons/g**

**Conversion to Carbon Dioxide Equivalency (CO2e) Units based on Global Warming Potential (GWP)\*\*\*\***

CH4 21 GWP  
 N2O 310 GWP  
 1 ton (short, US) = 0.90718474 metric ton

**Annual Mobile Emissions:**

**Total Emissions**                      **Total CO2e units**  
 N2O Emissions: 0.9427 metric tons N2O                      292.22 metric tons CO2e

**Project Total: 292.22 metric tons CO2e**

**References**

\* from Table C.4: Methane and Nitrous Oxide Emission Factors for Mobile Sources by Vehicle and Fuel Type (g/mile).  
 in California Climate Action Registry General Reporting Protocol, Reporting Entity-Wide Greenhouse Gas Emissions, Version 3.1, January 2009.  
 Assume Model year 2000-present, gasoline fueled.  
 \*\* Source: California Climate Action Registry General Reporting Protocol, Reporting Entity-Wide Greenhouse Gas Emissions, Version 3.1, January 2009.  
 \*\*\* From CalEEMod results for mobile sources  
 \*\*\*\*GWPs are based on the 2007 IPCC's Fourth Assessment Report (AR4), and are consistent with 2014 CARB's Scoping Plan Update

Mitigated - San Luis Ranch Project - 2017 Start - San Luis Obispo County APCD Air District, Annual

**Mitigated - San Luis Ranch Project - 2017 Start**  
**San Luis Obispo County APCD Air District, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	1.23	Acre	1.23	53,361.00	0
Parking Lot	1.00	Acre	1.00	43,560.00	0
Parking Lot	1.30	Acre	1.30	56,628.00	0
Single Family Housing	86.00	Dwelling Unit	8.00	154,800.00	246
Regional Shopping Center	50.00	1000sqft	1.15	50,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	3.2	<b>Precipitation Freq (Days)</b>	44
<b>Climate Zone</b>	4			<b>Operational Year</b>	2019
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MW hr)</b>	641.35	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

**1.3 User Entered Comments & Non-Default Data**

Mitigated - San Luis Ranch Project - 2017 Start - San Luis Obispo County APCD Air District, Annual

Project Characteristics -

Land Use - Land use values from buildout and phasing in Specific Plan Section 7.7. Includes portions of Phases 1, 2, and 6, and improvements to Fromm Ext and Madonna Rd

Construction Phase - No demolition in phases 1, 2, and 6. AC expected to overlap with half of building construction as painting would occur as buildings are finished.

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Grading - Total import proportionally distributed by phase acreage.

Vehicle Trips - Trip generation rate based on Omni-Means 2016 Traffic Impact Study.

Mobile Land Use Mitigation - Trip reductions from project's density, diversity, and access to alternative transportation accounted for in trip generation rates.

Energy Mitigation - Per Specific Plan, appliances will be energy efficient. Per MM AQ-3 Exceed Title 24

Water Mitigation -

Architectural Coating - Per MM AQ-2

Woodstoves - Per MM AQ-3

Construction Off-road Equipment Mitigation - Per MM AQ-2

Area Mitigation - Per MM AQ-3

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	50.00
tblArchitecturalCoating	EF_Parking	150.00	50.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	50.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	50.00
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	0
tblConstEquipMitigation	DPF	No Change	Level 2
tblConstEquipMitigation	DPF	No Change	Level 2
tblConstEquipMitigation	DPF	No Change	Level 2

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tblConstEquipMitigation	DPF	No Change	Level 2
tblConstEquipMitigation	DPF	No Change	Level 2
tblConstEquipMitigation	DPF	No Change	Level 2
tblConstEquipMitigation	DPF	No Change	Level 2
tblConstEquipMitigation	DPF	No Change	Level 2
tblConstEquipMitigation	DPF	No Change	Level 2
tblConstEquipMitigation	DPF	No Change	Level 2
tblConstEquipMitigation	DPF	No Change	Level 2
tblConstEquipMitigation	DPF	No Change	Level 2
tblConstEquipMitigation	DPF	No Change	Level 2
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3

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tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	20.00	150.00
tblGrading	MaterialImported	0.00	44,640.00
tblLandUse	BuildingSpaceSquareFeet	53,578.80	53,361.00
tblLandUse	LandUseSquareFeet	53,578.80	53,361.00
tblLandUse	LotAcreage	27.92	8.00
tblProjectCharacteristics	OperationalYear	2018	2019
tblVehicleTrips	ST_TR	49.97	10.38
tblVehicleTrips	ST_TR	9.91	5.29
tblVehicleTrips	SU_TR	25.24	5.24
tblVehicleTrips	SU_TR	8.62	4.61
tblVehicleTrips	WD_TR	42.70	8.87
tblVehicleTrips	WD_TR	9.52	5.09
tblWoodstoves	WoodstoveDayYear	60.00	0.00
tblWoodstoves	WoodstoveWoodMass	2,016.00	0.00

**2.0 Emissions Summary**

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Mitigated - San Luis Ranch Project - 2017 Start - San Luis Obispo County APCD Air District, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-2-2017	4-1-2017	2.8545	1.9128
2	4-2-2017	7-1-2017	1.1887	0.7087
3	7-2-2017	10-1-2017	1.2018	0.7165
4	10-2-2017	1-1-2018	1.5656	1.0455
5	1-2-2018	4-1-2018	1.3929	1.0053
6	4-2-2018	7-1-2018	0.5032	0.3513
		Highest	2.8545	1.9128

**2.2 Overall Operational**  
Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.1492	0.0136	1.1774	6.0000e-005		6.4500e-003	6.4500e-003		6.4500e-003	6.4500e-003	0.0000	1.9141	1.9141	1.8800e-003	0.0000	1.9611
Energy	0.0173	0.1483	0.0655	9.4000e-004		0.0120	0.0120		0.0120	0.0120	0.0000	586.5434	586.5434	0.0221	7.0300e-003	589.1884
Mobile	0.3213	1.2896	3.4596	7.8700e-003	0.6478	0.0118	0.6596	0.1736	0.0111	0.1847	0.0000	718.0401	718.0401	0.0347	0.0000	718.9075
Waste						0.0000	0.0000		0.0000	0.0000	31.1307	0.0000	31.1307	1.8398	0.0000	77.1250
Water						0.0000	0.0000		0.0000	0.0000	2.9526	20.5581	23.5108	0.3042	7.3500e-003	33.3069
<b>Total</b>	<b>1.4877</b>	<b>1.4516</b>	<b>4.7025</b>	<b>8.8700e-003</b>	<b>0.6478</b>	<b>0.0302</b>	<b>0.6780</b>	<b>0.1736</b>	<b>0.0295</b>	<b>0.2031</b>	<b>34.0833</b>	<b>1,327.0557</b>	<b>1,361.1390</b>	<b>2.2026</b>	<b>0.0144</b>	<b>1,420.4888</b>

Mitigated - San Luis Ranch Project - 2017 Start - San Luis Obispo County APCD Air District, Annual

**2.2 Overall Operational**

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.1492	0.0136	1.1774	6.0000e-005		6.4500e-003	6.4500e-003		6.4500e-003	6.4500e-003	0.0000	1.9141	1.9141	1.8800e-003	0.0000	1.9611
Energy	0.0141	0.1211	0.0535	7.7000e-004		9.7700e-003	9.7700e-003		9.7700e-003	9.7700e-003	0.0000	540.7106	540.7106	0.0208	6.3200e-003	543.1126
Mobile	0.3213	1.2896	3.4596	7.8700e-003	0.6478	0.0118	0.6596	0.1736	0.0111	0.1847	0.0000	718.0401	718.0401	0.0347	0.0000	718.9075
Waste						0.0000	0.0000		0.0000	0.0000	31.1307	0.0000	31.1307	1.8398	0.0000	77.1250
Water						0.0000	0.0000		0.0000	0.0000	2.9526	20.5581	23.5108	0.3042	7.3500e-003	33.3069
<b>Total</b>	<b>1.4846</b>	<b>1.4244</b>	<b>4.6904</b>	<b>8.7000e-003</b>	<b>0.6478</b>	<b>0.0280</b>	<b>0.6758</b>	<b>0.1736</b>	<b>0.0274</b>	<b>0.2009</b>	<b>34.0833</b>	<b>1,281.2230</b>	<b>1,315.3063</b>	<b>2.2013</b>	<b>0.0137</b>	<b>1,374.4130</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
<b>Percent Reduction</b>	<b>0.21</b>	<b>1.87</b>	<b>0.26</b>	<b>1.92</b>	<b>0.00</b>	<b>7.25</b>	<b>0.32</b>	<b>0.00</b>	<b>7.41</b>	<b>1.08</b>	<b>0.00</b>	<b>3.45</b>	<b>3.37</b>	<b>0.06</b>	<b>4.94</b>	<b>3.24</b>

**3.0 Construction Detail**

**Construction Phase**

## Mitigated - San Luis Ranch Project - 2017 Start - San Luis Obispo County APCD Air District, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/2/2017	1/13/2017	5	10	
2	Grading	Grading	1/16/2017	2/24/2017	5	30	
3	Building Construction	Building Construction	2/27/2017	4/20/2018	5	300	
4	Architectural Coating	Architectural Coating	10/2/2017	4/27/2018	5	150	
5	Paving	Paving	4/23/2018	5/18/2018	5	20	

**Acres of Grading (Site Preparation Phase): 0**

**Acres of Grading (Grading Phase): 75**

**Acres of Paving: 3.53**

**Residential Indoor: 313,470; Residential Outdoor: 104,490; Non-Residential Indoor: 75,000; Non-Residential Outdoor: 25,000; Striped Parking Area: 9,213 (Architectural Coating – sqft)**

**OffRoad Equipment**

Mitigated - San Luis Ranch Project - 2017 Start - San Luis Obispo County APCD Air District, Annual

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	5,580.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	111.00	43.00	0.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	22.00	0.00	0.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Mitigated - San Luis Ranch Project - 2017 Start - San Luis Obispo County APCD Air District, Annual

Use Cleaner Engines for Construction Equipment

Use DPF for Construction Equipment

Clean Paved Roads

**3.2 Site Preparation - 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	tons/yr										MT/yr					
Fugitive Dust					0.0903	0.0000	0.0903	0.0497	0.0000	0.0497	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0248	0.2614	0.1173	1.9000e-004		0.0144	0.0144		0.0132	0.0132	0.0000	17.6672	17.6672	5.4100e-003	0.0000	17.8025
<b>Total</b>	<b>0.0248</b>	<b>0.2614</b>	<b>0.1173</b>	<b>1.9000e-004</b>	<b>0.0903</b>	<b>0.0144</b>	<b>0.1047</b>	<b>0.0497</b>	<b>0.0132</b>	<b>0.0629</b>	<b>0.0000</b>	<b>17.6672</b>	<b>17.6672</b>	<b>5.4100e-003</b>	<b>0.0000</b>	<b>17.8025</b>

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**3.2 Site Preparation - 2017**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.5000e-004	5.4000e-004	4.6600e-003	1.0000e-005	8.7000e-004	1.0000e-005	8.7000e-004	2.3000e-004	1.0000e-005	2.4000e-004	0.0000	0.7921	0.7921	4.0000e-005	0.0000	0.7930
<b>Total</b>	<b>5.5000e-004</b>	<b>5.4000e-004</b>	<b>4.6600e-003</b>	<b>1.0000e-005</b>	<b>8.7000e-004</b>	<b>1.0000e-005</b>	<b>8.7000e-004</b>	<b>2.3000e-004</b>	<b>1.0000e-005</b>	<b>2.4000e-004</b>	<b>0.0000</b>	<b>0.7921</b>	<b>0.7921</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>0.7930</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0903	0.0000	0.0903	0.0497	0.0000	0.0497	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.6600e-003	0.0953	0.1148	1.9000e-004		2.3700e-003	2.3700e-003		2.3700e-003	2.3700e-003	0.0000	17.6672	17.6672	5.4100e-003	0.0000	17.8025
<b>Total</b>	<b>4.6600e-003</b>	<b>0.0953</b>	<b>0.1148</b>	<b>1.9000e-004</b>	<b>0.0903</b>	<b>2.3700e-003</b>	<b>0.0927</b>	<b>0.0497</b>	<b>2.3700e-003</b>	<b>0.0520</b>	<b>0.0000</b>	<b>17.6672</b>	<b>17.6672</b>	<b>5.4100e-003</b>	<b>0.0000</b>	<b>17.8025</b>

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**3.2 Site Preparation - 2017**

**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	5.5000e-004	5.4000e-004	4.6600e-003	1.0000e-005	8.7000e-004	1.0000e-005	8.7000e-004	2.3000e-004	1.0000e-005	2.4000e-004	0.0000	0.7921	0.7921	4.0000e-005	0.0000	0.7930
<b>Total</b>	<b>5.5000e-004</b>	<b>5.4000e-004</b>	<b>4.6600e-003</b>	<b>1.0000e-005</b>	<b>8.7000e-004</b>	<b>1.0000e-005</b>	<b>8.7000e-004</b>	<b>2.3000e-004</b>	<b>1.0000e-005</b>	<b>2.4000e-004</b>	<b>0.0000</b>	<b>0.7921</b>	<b>0.7921</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>0.7930</b>

**3.3 Grading - 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	tons/yr										MT/yr					
Fugitive Dust					0.1342	0.0000	0.1342	0.0546	0.0000	0.0546	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0862	1.0191	0.5817	9.3000e-004		0.0461	0.0461		0.0424	0.0424	0.0000	86.3398	86.3398	0.0265	0.0000	87.0011
<b>Total</b>	<b>0.0862</b>	<b>1.0191</b>	<b>0.5817</b>	<b>9.3000e-004</b>	<b>0.1342</b>	<b>0.0461</b>	<b>0.1803</b>	<b>0.0546</b>	<b>0.0424</b>	<b>0.0970</b>	<b>0.0000</b>	<b>86.3398</b>	<b>86.3398</b>	<b>0.0265</b>	<b>0.0000</b>	<b>87.0011</b>



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**3.3 Grading - 2017**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0398	1.1340	0.2632	2.2600e-003	0.0475	0.0108	0.0583	0.0130	0.0103	0.0233	0.0000	219.9381	219.9381	0.0124	0.0000	220.2484
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	1.8300e-003	1.7900e-003	0.0156	3.0000e-005	2.8900e-003	2.0000e-005	2.9100e-003	7.7000e-004	2.0000e-005	7.9000e-004	0.0000	2.6404	2.6404	1.2000e-004	0.0000	2.6435
<b>Total</b>	<b>0.0416</b>	<b>1.1358</b>	<b>0.2787</b>	<b>2.2900e-003</b>	<b>0.0504</b>	<b>0.0108</b>	<b>0.0612</b>	<b>0.0138</b>	<b>0.0103</b>	<b>0.0241</b>	<b>0.0000</b>	<b>222.5785</b>	<b>222.5785</b>	<b>0.0125</b>	<b>0.0000</b>	<b>222.8919</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1342	0.0000	0.1342	0.0546	0.0000	0.0546	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0229	0.4497	0.5508	9.3000e-004		9.7500e-003	9.7500e-003		9.7500e-003	9.7500e-003	0.0000	86.3397	86.3397	0.0265	0.0000	87.0010
<b>Total</b>	<b>0.0229</b>	<b>0.4497</b>	<b>0.5508</b>	<b>9.3000e-004</b>	<b>0.1342</b>	<b>9.7500e-003</b>	<b>0.1440</b>	<b>0.0546</b>	<b>9.7500e-003</b>	<b>0.0643</b>	<b>0.0000</b>	<b>86.3397</b>	<b>86.3397</b>	<b>0.0265</b>	<b>0.0000</b>	<b>87.0010</b>

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**3.3 Grading - 2017**

**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	0.0398	1.1340	0.2632	2.2600e-003	0.0475	0.0108	0.0583	0.0130	0.0103	0.0233	0.0000	219.9381	219.9381	0.0124	0.0000	220.2484
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	1.8300e-003	1.7900e-003	0.0156	3.0000e-005	2.8900e-003	2.0000e-005	2.9100e-003	7.7000e-004	2.0000e-005	7.9000e-004	0.0000	2.6404	2.6404	1.2000e-004	0.0000	2.6435
<b>Total</b>	<b>0.0416</b>	<b>1.1358</b>	<b>0.2787</b>	<b>2.2900e-003</b>	<b>0.0504</b>	<b>0.0108</b>	<b>0.0612</b>	<b>0.0138</b>	<b>0.0103</b>	<b>0.0241</b>	<b>0.0000</b>	<b>222.5785</b>	<b>222.5785</b>	<b>0.0125</b>	<b>0.0000</b>	<b>222.8919</b>

**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	tons/yr										MT/yr					
Off-Road	0.3426	2.9210	2.0001	2.9600e-003		0.1967	0.1967		0.1847	0.1847	0.0000	264.5421	264.5421	0.0652	0.0000	266.1715
<b>Total</b>	<b>0.3426</b>	<b>2.9210</b>	<b>2.0001</b>	<b>2.9600e-003</b>		<b>0.1967</b>	<b>0.1967</b>		<b>0.1847</b>	<b>0.1847</b>	<b>0.0000</b>	<b>264.5421</b>	<b>264.5421</b>	<b>0.0652</b>	<b>0.0000</b>	<b>266.1715</b>

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**3.4 Building Construction - 2017**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0292	0.6001	0.2142	9.5000e-004	0.0215	6.5100e-003	0.0280	6.2000e-003	6.2200e-003	0.0124	0.0000	91.2452	91.2452	6.3700e-003	0.0000	91.4044
Worker	0.0747	0.0727	0.6327	1.1900e-003	0.1176	8.7000e-004	0.1184	0.0312	8.0000e-004	0.0320	0.0000	107.4652	107.4652	4.9600e-003	0.0000	107.5892
<b>Total</b>	<b>0.1039</b>	<b>0.6727</b>	<b>0.8469</b>	<b>2.1400e-003</b>	<b>0.1390</b>	<b>7.3800e-003</b>	<b>0.1464</b>	<b>0.0374</b>	<b>7.0200e-003</b>	<b>0.0445</b>	<b>0.0000</b>	<b>198.7104</b>	<b>198.7104</b>	<b>0.0113</b>	<b>0.0000</b>	<b>198.9936</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0741	1.5649	1.9661	2.9600e-003		0.0497	0.0497		0.0497	0.0497	0.0000	264.5418	264.5418	0.0652	0.0000	266.1712
<b>Total</b>	<b>0.0741</b>	<b>1.5649</b>	<b>1.9661</b>	<b>2.9600e-003</b>		<b>0.0497</b>	<b>0.0497</b>		<b>0.0497</b>	<b>0.0497</b>	<b>0.0000</b>	<b>264.5418</b>	<b>264.5418</b>	<b>0.0652</b>	<b>0.0000</b>	<b>266.1712</b>

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**3.4 Building Construction - 2017**

**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	0.0292	0.6001	0.2142	9.5000e-004	0.0215	6.5100e-003	0.0280	6.2000e-003	6.2200e-003	0.0124	0.0000	91.2452	91.2452	6.3700e-003	0.0000	91.4044
Worker	0.0747	0.0727	0.6327	1.1900e-003	0.1176	8.7000e-004	0.1184	0.0312	8.0000e-004	0.0320	0.0000	107.4652	107.4652	4.9600e-003	0.0000	107.5892
<b>Total</b>	<b>0.1039</b>	<b>0.6727</b>	<b>0.8469</b>	<b>2.1400e-003</b>	<b>0.1390</b>	<b>7.3800e-003</b>	<b>0.1464</b>	<b>0.0374</b>	<b>7.0200e-003</b>	<b>0.0445</b>	<b>0.0000</b>	<b>198.7104</b>	<b>198.7104</b>	<b>0.0113</b>	<b>0.0000</b>	<b>198.9936</b>

**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	tons/yr										MT/yr					
Off-Road	0.1072	0.9356	0.7032	1.0800e-003		0.0600	0.0600		0.0564	0.0564	0.0000	95.1069	95.1069	0.0233	0.0000	95.6894
<b>Total</b>	<b>0.1072</b>	<b>0.9356</b>	<b>0.7032</b>	<b>1.0800e-003</b>		<b>0.0600</b>	<b>0.0600</b>		<b>0.0564</b>	<b>0.0564</b>	<b>0.0000</b>	<b>95.1069</b>	<b>95.1069</b>	<b>0.0233</b>	<b>0.0000</b>	<b>95.6894</b>

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**3.4 Building Construction - 2018**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.2500e-003	0.2064	0.0697	3.5000e-004	7.8100e-003	1.9100e-003	9.7200e-003	2.2600e-003	1.8300e-003	4.0900e-003	0.0000	33.2251	33.2251	2.2100e-003	0.0000	33.2802
Worker	0.0238	0.0229	0.1980	4.2000e-004	0.0427	3.0000e-004	0.0430	0.0114	2.8000e-004	0.0116	0.0000	38.0196	38.0196	1.5700e-003	0.0000	38.0588
<b>Total</b>	<b>0.0330</b>	<b>0.2293</b>	<b>0.2678</b>	<b>7.7000e-004</b>	<b>0.0506</b>	<b>2.2100e-003</b>	<b>0.0528</b>	<b>0.0136</b>	<b>2.1100e-003</b>	<b>0.0157</b>	<b>0.0000</b>	<b>71.2447</b>	<b>71.2447</b>	<b>3.7800e-003</b>	<b>0.0000</b>	<b>71.3390</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0270	0.5690	0.7150	1.0800e-003		0.0181	0.0181		0.0181	0.0181	0.0000	95.1068	95.1068	0.0233	0.0000	95.6893
<b>Total</b>	<b>0.0270</b>	<b>0.5690</b>	<b>0.7150</b>	<b>1.0800e-003</b>		<b>0.0181</b>	<b>0.0181</b>		<b>0.0181</b>	<b>0.0181</b>	<b>0.0000</b>	<b>95.1068</b>	<b>95.1068</b>	<b>0.0233</b>	<b>0.0000</b>	<b>95.6893</b>

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**3.4 Building Construction - 2018**

**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	9.2500e-003	0.2064	0.0697	3.5000e-004	7.8100e-003	1.9100e-003	9.7200e-003	2.2600e-003	1.8300e-003	4.0900e-003	0.0000	33.2251	33.2251	2.2100e-003	0.0000	33.2802
Worker	0.0238	0.0229	0.1980	4.2000e-004	0.0427	3.0000e-004	0.0430	0.0114	2.8000e-004	0.0116	0.0000	38.0196	38.0196	1.5700e-003	0.0000	38.0588
<b>Total</b>	<b>0.0330</b>	<b>0.2293</b>	<b>0.2678</b>	<b>7.7000e-004</b>	<b>0.0506</b>	<b>2.2100e-003</b>	<b>0.0528</b>	<b>0.0136</b>	<b>2.1100e-003</b>	<b>0.0157</b>	<b>0.0000</b>	<b>71.2447</b>	<b>71.2447</b>	<b>3.7800e-003</b>	<b>0.0000</b>	<b>71.3390</b>

**3.5 Architectural Coating - 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	tons/yr										MT/yr					
Archit. Coating	0.2647					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0108	0.0710	0.0607	1.0000e-004		5.6300e-003	5.6300e-003		5.6300e-003	5.6300e-003	0.0000	8.2981	8.2981	8.8000e-004	0.0000	8.3200
<b>Total</b>	<b>0.2755</b>	<b>0.0710</b>	<b>0.0607</b>	<b>1.0000e-004</b>		<b>5.6300e-003</b>	<b>5.6300e-003</b>		<b>5.6300e-003</b>	<b>5.6300e-003</b>	<b>0.0000</b>	<b>8.2981</b>	<b>8.2981</b>	<b>8.8000e-004</b>	<b>0.0000</b>	<b>8.3200</b>

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**3.5 Architectural Coating - 2017**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.3700e-003	4.2600e-003	0.0371	7.0000e-005	6.8800e-003	5.0000e-005	6.9300e-003	1.8300e-003	5.0000e-005	1.8800e-003	0.0000	6.2930	6.2930	2.9000e-004	0.0000	6.3003
<b>Total</b>	<b>4.3700e-003</b>	<b>4.2600e-003</b>	<b>0.0371</b>	<b>7.0000e-005</b>	<b>6.8800e-003</b>	<b>5.0000e-005</b>	<b>6.9300e-003</b>	<b>1.8300e-003</b>	<b>5.0000e-005</b>	<b>1.8800e-003</b>	<b>0.0000</b>	<b>6.2930</b>	<b>6.2930</b>	<b>2.9000e-004</b>	<b>0.0000</b>	<b>6.3003</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.2647					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.9300e-003	0.0441	0.0596	1.0000e-004		1.5500e-003	1.5500e-003		1.5500e-003	1.5500e-003	0.0000	8.2981	8.2981	8.8000e-004	0.0000	8.3200
<b>Total</b>	<b>0.2666</b>	<b>0.0441</b>	<b>0.0596</b>	<b>1.0000e-004</b>		<b>1.5500e-003</b>	<b>1.5500e-003</b>		<b>1.5500e-003</b>	<b>1.5500e-003</b>	<b>0.0000</b>	<b>8.2981</b>	<b>8.2981</b>	<b>8.8000e-004</b>	<b>0.0000</b>	<b>8.3200</b>

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**3.5 Architectural Coating - 2017**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.3700e-003	4.2600e-003	0.0371	7.0000e-005	6.8800e-003	5.0000e-005	6.9300e-003	1.8300e-003	5.0000e-005	1.8800e-003	0.0000	6.2930	6.2930	2.9000e-004	0.0000	6.3003
<b>Total</b>	<b>4.3700e-003</b>	<b>4.2600e-003</b>	<b>0.0371</b>	<b>7.0000e-005</b>	<b>6.8800e-003</b>	<b>5.0000e-005</b>	<b>6.9300e-003</b>	<b>1.8300e-003</b>	<b>5.0000e-005</b>	<b>1.8800e-003</b>	<b>0.0000</b>	<b>6.2930</b>	<b>6.2930</b>	<b>2.9000e-004</b>	<b>0.0000</b>	<b>6.3003</b>

**3.5 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	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.3462					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0127	0.0852	0.0788	1.3000e-004		6.4000e-003	6.4000e-003		6.4000e-003	6.4000e-003	0.0000	10.8514	10.8514	1.0300e-003	0.0000	10.8771
<b>Total</b>	<b>0.3588</b>	<b>0.0852</b>	<b>0.0788</b>	<b>1.3000e-004</b>		<b>6.4000e-003</b>	<b>6.4000e-003</b>		<b>6.4000e-003</b>	<b>6.4000e-003</b>	<b>0.0000</b>	<b>10.8514</b>	<b>10.8514</b>	<b>1.0300e-003</b>	<b>0.0000</b>	<b>10.8771</b>



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**3.5 Architectural Coating - 2018**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.0000e-003	4.8200e-003	0.0417	9.0000e-005	9.0000e-003	6.0000e-005	9.0600e-003	2.3900e-003	6.0000e-005	2.4500e-003	0.0000	8.0064	8.0064	3.3000e-004	0.0000	8.0146
<b>Total</b>	<b>5.0000e-003</b>	<b>4.8200e-003</b>	<b>0.0417</b>	<b>9.0000e-005</b>	<b>9.0000e-003</b>	<b>6.0000e-005</b>	<b>9.0600e-003</b>	<b>2.3900e-003</b>	<b>6.0000e-005</b>	<b>2.4500e-003</b>	<b>0.0000</b>	<b>8.0064</b>	<b>8.0064</b>	<b>3.3000e-004</b>	<b>0.0000</b>	<b>8.0146</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.3462					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.5300e-003	0.0577	0.0779	1.3000e-004		2.0200e-003	2.0200e-003		2.0200e-003	2.0200e-003	0.0000	10.8513	10.8513	1.0300e-003	0.0000	10.8771
<b>Total</b>	<b>0.3487</b>	<b>0.0577</b>	<b>0.0779</b>	<b>1.3000e-004</b>		<b>2.0200e-003</b>	<b>2.0200e-003</b>		<b>2.0200e-003</b>	<b>2.0200e-003</b>	<b>0.0000</b>	<b>10.8513</b>	<b>10.8513</b>	<b>1.0300e-003</b>	<b>0.0000</b>	<b>10.8771</b>

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**3.5 Architectural Coating - 2018**

**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	5.0000e-003	4.8200e-003	0.0417	9.0000e-005	9.0000e-003	6.0000e-005	9.0600e-003	2.3900e-003	6.0000e-005	2.4500e-003	0.0000	8.0064	8.0064	3.3000e-004	0.0000	8.0146
<b>Total</b>	<b>5.0000e-003</b>	<b>4.8200e-003</b>	<b>0.0417</b>	<b>9.0000e-005</b>	<b>9.0000e-003</b>	<b>6.0000e-005</b>	<b>9.0600e-003</b>	<b>2.3900e-003</b>	<b>6.0000e-005</b>	<b>2.4500e-003</b>	<b>0.0000</b>	<b>8.0064</b>	<b>8.0064</b>	<b>3.3000e-004</b>	<b>0.0000</b>	<b>8.0146</b>

**3.6 Paving - 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	tons/yr										MT/yr					
Off-Road	0.0164	0.1752	0.1480	2.3000e-004		9.5600e-003	9.5600e-003		8.8000e-003	8.8000e-003	0.0000	20.8116	20.8116	6.4800e-003	0.0000	20.9736
Paving	4.6200e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0211</b>	<b>0.1752</b>	<b>0.1480</b>	<b>2.3000e-004</b>		<b>9.5600e-003</b>	<b>9.5600e-003</b>		<b>8.8000e-003</b>	<b>8.8000e-003</b>	<b>0.0000</b>	<b>20.8116</b>	<b>20.8116</b>	<b>6.4800e-003</b>	<b>0.0000</b>	<b>20.9736</b>

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**3.6 Paving - 2018**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.0000e-004	7.7000e-004	6.6900e-003	1.0000e-005	1.4400e-003	1.0000e-005	1.4500e-003	3.8000e-004	1.0000e-005	3.9000e-004	0.0000	1.2845	1.2845	5.0000e-005	0.0000	1.2858
<b>Total</b>	<b>8.0000e-004</b>	<b>7.7000e-004</b>	<b>6.6900e-003</b>	<b>1.0000e-005</b>	<b>1.4400e-003</b>	<b>1.0000e-005</b>	<b>1.4500e-003</b>	<b>3.8000e-004</b>	<b>1.0000e-005</b>	<b>3.9000e-004</b>	<b>0.0000</b>	<b>1.2845</b>	<b>1.2845</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>1.2858</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	5.6100e-003	0.1130	0.1730	2.3000e-004		3.0500e-003	3.0500e-003		3.0500e-003	3.0500e-003	0.0000	20.8116	20.8116	6.4800e-003	0.0000	20.9736
Paving	4.6200e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0102</b>	<b>0.1130</b>	<b>0.1730</b>	<b>2.3000e-004</b>		<b>3.0500e-003</b>	<b>3.0500e-003</b>		<b>3.0500e-003</b>	<b>3.0500e-003</b>	<b>0.0000</b>	<b>20.8116</b>	<b>20.8116</b>	<b>6.4800e-003</b>	<b>0.0000</b>	<b>20.9736</b>

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**3.6 Paving - 2018**

**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	8.0000e-004	7.7000e-004	6.6900e-003	1.0000e-005	1.4400e-003	1.0000e-005	1.4500e-003	3.8000e-004	1.0000e-005	3.9000e-004	0.0000	1.2845	1.2845	5.0000e-005	0.0000	1.2858
<b>Total</b>	<b>8.0000e-004</b>	<b>7.7000e-004</b>	<b>6.6900e-003</b>	<b>1.0000e-005</b>	<b>1.4400e-003</b>	<b>1.0000e-005</b>	<b>1.4500e-003</b>	<b>3.8000e-004</b>	<b>1.0000e-005</b>	<b>3.9000e-004</b>	<b>0.0000</b>	<b>1.2845</b>	<b>1.2845</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>1.2858</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.3213	1.2896	3.4596	7.8700e-003	0.6478	0.0118	0.6596	0.1736	0.0111	0.1847	0.0000	718.0401	718.0401	0.0347	0.0000	718.9075
Unmitigated	0.3213	1.2896	3.4596	7.8700e-003	0.6478	0.0118	0.6596	0.1736	0.0111	0.1847	0.0000	718.0401	718.0401	0.0347	0.0000	718.9075

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Regional Shopping Center	443.50	519.00	262.00	618,505	618,505
Single Family Housing	437.74	454.94	396.46	1,103,798	1,103,798
Total	881.24	973.94	658.46	1,722,303	1,722,303

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
Parking Lot	13.00	5.00	5.00	0.00	0.00	0.00	0	0	0
Parking Lot	13.00	5.00	5.00	0.00	0.00	0.00	0	0	0
Parking Lot	13.00	5.00	5.00	0.00	0.00	0.00	0	0	0
Regional Shopping Center	13.00	5.00	5.00	16.30	64.70	19.00	54	35	11
Single Family Housing	13.00	5.00	5.00	35.80	21.00	43.20	86	11	3

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**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Parking Lot	0.549382	0.034064	0.198767	0.132360	0.033447	0.007872	0.013134	0.018943	0.002404	0.001320	0.005630	0.000825	0.001852
Parking Lot	0.549382	0.034064	0.198767	0.132360	0.033447	0.007872	0.013134	0.018943	0.002404	0.001320	0.005630	0.000825	0.001852
Parking Lot	0.549382	0.034064	0.198767	0.132360	0.033447	0.007872	0.013134	0.018943	0.002404	0.001320	0.005630	0.000825	0.001852
Single Family Housing	0.549382	0.034064	0.198767	0.132360	0.033447	0.007872	0.013134	0.018943	0.002404	0.001320	0.005630	0.000825	0.001852
Regional Shopping Center	0.549382	0.034064	0.198767	0.132360	0.033447	0.007872	0.013134	0.018943	0.002404	0.001320	0.005630	0.000825	0.001852

**5.0 Energy Detail**

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	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	400.7372	400.7372	0.0181	3.7500e-003	402.3074
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	415.1963	415.1963	0.0188	3.8800e-003	416.8232
NaturalGas Mitigated	0.0141	0.1211	0.0535	7.7000e-004		9.7700e-003	9.7700e-003		9.7700e-003	9.7700e-003	0.0000	139.9735	139.9735	2.6800e-003	2.5700e-003	140.8053
NaturalGas Unmitigated	0.0173	0.1483	0.0655	9.4000e-004		0.0120	0.0120		0.0120	0.0120	0.0000	171.3470	171.3470	3.2800e-003	3.1400e-003	172.3653

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**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	119000	6.4000e-004	5.8300e-003	4.9000e-003	4.0000e-005		4.4000e-004	4.4000e-004		4.4000e-004	4.4000e-004	0.0000	6.3503	6.3503	1.2000e-004	1.2000e-004	6.3880
Single Family Housing	3.09192e+006	0.0167	0.1425	0.0606	9.1000e-004		0.0115	0.0115		0.0115	0.0115	0.0000	164.9967	164.9967	3.1600e-003	3.0200e-003	165.9772
<b>Total</b>		<b>0.0173</b>	<b>0.1483</b>	<b>0.0655</b>	<b>9.5000e-004</b>		<b>0.0120</b>	<b>0.0120</b>		<b>0.0120</b>	<b>0.0120</b>	<b>0.0000</b>	<b>171.3470</b>	<b>171.3470</b>	<b>3.2800e-003</b>	<b>3.1400e-003</b>	<b>172.3653</b>

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	95200	5.1000e-004	4.6700e-003	3.9200e-003	3.0000e-005		3.5000e-004	3.5000e-004		3.5000e-004	3.5000e-004	0.0000	5.0802	5.0802	1.0000e-004	9.0000e-005	5.1104
Single Family Housing	2.5278e+006	0.0136	0.1165	0.0496	7.4000e-004		9.4200e-003	9.4200e-003		9.4200e-003	9.4200e-003	0.0000	134.8932	134.8932	2.5900e-003	2.4700e-003	135.6948
<b>Total</b>		<b>0.0141</b>	<b>0.1212</b>	<b>0.0535</b>	<b>7.7000e-004</b>		<b>9.7700e-003</b>	<b>9.7700e-003</b>		<b>9.7700e-003</b>	<b>9.7700e-003</b>	<b>0.0000</b>	<b>139.9735</b>	<b>139.9735</b>	<b>2.6900e-003</b>	<b>2.5600e-003</b>	<b>140.8052</b>

## Mitigated - San Luis Ranch Project - 2017 Start - San Luis Obispo County APCD Air District, Annual

**5.3 Energy by Land Use - Electricity****Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Parking Lot	38332.8	11.1515	5.0000e-004	1.0000e-004	11.1952
Parking Lot	46957.7	13.6605	6.2000e-004	1.3000e-004	13.7141
Parking Lot	49832.6	14.4969	6.6000e-004	1.4000e-004	14.5537
Regional Shopping Center	547500	159.2740	7.2000e-003	1.4900e-003	159.8981
Single Family Housing	744603	216.6134	9.7900e-003	2.0300e-003	217.4622
<b>Total</b>		<b>415.1963</b>	<b>0.0188</b>	<b>3.8900e-003</b>	<b>416.8232</b>



## Mitigated - San Luis Ranch Project - 2017 Start - San Luis Obispo County APCD Air District, Annual

**5.3 Energy by Land Use - Electricity****Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Parking Lot	38332.8	11.1515	5.0000e-004	1.0000e-004	11.1952
Parking Lot	46957.7	13.6605	6.2000e-004	1.3000e-004	13.7141
Parking Lot	49832.6	14.4969	6.6000e-004	1.4000e-004	14.5537
Regional Shopping Center	518600	150.8667	6.8200e-003	1.4100e-003	151.4578
Single Family Housing	723800	210.5616	9.5200e-003	1.9700e-003	211.3867
<b>Total</b>		<b>400.7372</b>	<b>0.0181</b>	<b>3.7500e-003</b>	<b>402.3074</b>

**6.0 Area Detail****6.1 Mitigation Measures Area**

No Hearths Installed

Mitigated - San Luis Ranch Project - 2017 Start - San Luis Obispo County APCD Air District, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1.1492	0.0136	1.1774	6.0000e-005		6.4500e-003	6.4500e-003		6.4500e-003	6.4500e-003	0.0000	1.9141	1.9141	1.8800e-003	0.0000	1.9611
Unmitigated	1.1492	0.0136	1.1774	6.0000e-005		6.4500e-003	6.4500e-003		6.4500e-003	6.4500e-003	0.0000	1.9141	1.9141	1.8800e-003	0.0000	1.9611

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.3033					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.8098					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0361	0.0136	1.1774	6.0000e-005		6.4500e-003	6.4500e-003		6.4500e-003	6.4500e-003	0.0000	1.9141	1.9141	1.8800e-003	0.0000	1.9611
<b>Total</b>	<b>1.1492</b>	<b>0.0136</b>	<b>1.1774</b>	<b>6.0000e-005</b>		<b>6.4500e-003</b>	<b>6.4500e-003</b>		<b>6.4500e-003</b>	<b>6.4500e-003</b>	<b>0.0000</b>	<b>1.9141</b>	<b>1.9141</b>	<b>1.8800e-003</b>	<b>0.0000</b>	<b>1.9611</b>

Mitigated - San Luis Ranch Project - 2017 Start - San Luis Obispo County APCD Air District, Annual

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.3033					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.8098					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0361	0.0136	1.1774	6.0000e-005		6.4500e-003	6.4500e-003		6.4500e-003	6.4500e-003	0.0000	1.9141	1.9141	1.8800e-003	0.0000	1.9611
<b>Total</b>	<b>1.1492</b>	<b>0.0136</b>	<b>1.1774</b>	<b>6.0000e-005</b>		<b>6.4500e-003</b>	<b>6.4500e-003</b>		<b>6.4500e-003</b>	<b>6.4500e-003</b>	<b>0.0000</b>	<b>1.9141</b>	<b>1.9141</b>	<b>1.8800e-003</b>	<b>0.0000</b>	<b>1.9611</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

Mitigated - San Luis Ranch Project - 2017 Start - San Luis Obispo County APCD Air District, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	23.5108	0.3042	7.3500e-003	33.3069
Unmitigated	23.5108	0.3042	7.3500e-003	33.3069

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	3.70363 / 2.26996	9.3162	0.1211	2.9300e-003	13.2144
Single Family Housing	5.60325 / 3.53248	14.1946	0.1831	4.4300e-003	20.0925
<b>Total</b>		<b>23.5108</b>	<b>0.3042</b>	<b>7.3600e-003</b>	<b>33.3069</b>

## Mitigated - San Luis Ranch Project - 2017 Start - San Luis Obispo County APCD Air District, Annual

**7.2 Water by Land Use****Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	3.70363 / 2.26996	9.3162	0.1211	2.9300e-003	13.2144
Single Family Housing	5.60325 / 3.53248	14.1946	0.1831	4.4300e-003	20.0925
<b>Total</b>		<b>23.5108</b>	<b>0.3042</b>	<b>7.3600e-003</b>	<b>33.3069</b>

**8.0 Waste Detail****8.1 Mitigation Measures Waste**

Mitigated - San Luis Ranch Project - 2017 Start - San Luis Obispo County APCD Air District, Annual

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	31.1307	1.8398	0.0000	77.1250
Unmitigated	31.1307	1.8398	0.0000	77.1250

**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	52.5	10.6570	0.6298	0.0000	26.4023
Single Family Housing	100.86	20.4737	1.2100	0.0000	50.7227
<b>Total</b>		<b>31.1307</b>	<b>1.8398</b>	<b>0.0000</b>	<b>77.1250</b>

Mitigated - San Luis Ranch Project - 2017 Start - San Luis Obispo County APCD Air District, Annual

**8.2 Waste by Land Use**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	52.5	10.6570	0.6298	0.0000	26.4023
Single Family Housing	100.86	20.4737	1.2100	0.0000	50.7227
<b>Total</b>		<b>31.1307</b>	<b>1.8398</b>	<b>0.0000</b>	<b>77.1250</b>

**9.0 Operational Offroad**

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

Fire Pumps and Emergency Generators

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

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

User Defined Equipment

Equipment Type	Number
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Mitigated - San Luis Ranch Project - 2017 Start - San Luis Obispo County APCD Air District, Annual

## **11.0 Vegetation**

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Mitigated - San Luis Ranch Project - 2017 Start - San Luis Obispo County APCD Air District, Summer

**Mitigated - San Luis Ranch Project - 2017 Start**  
**San Luis Obispo County APCD Air District, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	1.23	Acre	1.23	53,361.00	0
Parking Lot	1.00	Acre	1.00	43,560.00	0
Parking Lot	1.30	Acre	1.30	56,628.00	0
Single Family Housing	86.00	Dwelling Unit	8.00	154,800.00	246
Regional Shopping Center	50.00	1000sqft	1.15	50,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	3.2	<b>Precipitation Freq (Days)</b>	44
<b>Climate Zone</b>	4			<b>Operational Year</b>	2019
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MW hr)</b>	641.35	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

**1.3 User Entered Comments & Non-Default Data**

Mitigated - San Luis Ranch Project - 2017 Start - San Luis Obispo County APCD Air District, Summer

Project Characteristics -

Land Use - Land use values from buildout and phasing in Specific Plan Section 7.7. Includes portions of Phases 1, 2, and 6, and improvements to Fromm Ext and Madonna Rd

Construction Phase - No demolition in phases 1, 2, and 6. AC expected to overlap with half of building construction as painting would occur as buildings are finished.

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Grading - Total import proportionally distributed by phase acreage.

Vehicle Trips - Trip generation rate based on Omni-Means 2016 Traffic Impact Study.

Mobile Land Use Mitigation - Trip reductions from project's density, diversity, and access to alternative transportation accounted for in trip generation rates.

Energy Mitigation - Per Specific Plan, appliances will be energy efficient. Per MM AQ-3 Exceed Title 24

Water Mitigation -

Architectural Coating - Per MM AQ-2

Woodstoves - Per MM AQ-3

Construction Off-road Equipment Mitigation - Per MM AQ-2

Area Mitigation - Per MM AQ-3

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	50.00
tblArchitecturalCoating	EF_Parking	150.00	50.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	50.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	50.00
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	0
tblConstEquipMitigation	DPF	No Change	Level 2
tblConstEquipMitigation	DPF	No Change	Level 2
tblConstEquipMitigation	DPF	No Change	Level 2

Mitigated - San Luis Ranch Project - 2017 Start - San Luis Obispo County APCD Air District, Summer

tblConstEquipMitigation	DPF	No Change	Level 2
tblConstEquipMitigation	DPF	No Change	Level 2
tblConstEquipMitigation	DPF	No Change	Level 2
tblConstEquipMitigation	DPF	No Change	Level 2
tblConstEquipMitigation	DPF	No Change	Level 2
tblConstEquipMitigation	DPF	No Change	Level 2
tblConstEquipMitigation	DPF	No Change	Level 2
tblConstEquipMitigation	DPF	No Change	Level 2
tblConstEquipMitigation	DPF	No Change	Level 2
tblConstEquipMitigation	DPF	No Change	Level 2
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3

## Mitigated - San Luis Ranch Project - 2017 Start - San Luis Obispo County APCD Air District, Summer

tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	20.00	150.00
tblGrading	MaterialImported	0.00	44,640.00
tblLandUse	BuildingSpaceSquareFeet	53,578.80	53,361.00
tblLandUse	LandUseSquareFeet	53,578.80	53,361.00
tblLandUse	LotAcreage	27.92	8.00
tblProjectCharacteristics	OperationalYear	2018	2019
tblVehicleTrips	ST_TR	49.97	10.38
tblVehicleTrips	ST_TR	9.91	5.29
tblVehicleTrips	SU_TR	25.24	5.24
tblVehicleTrips	SU_TR	8.62	4.61
tblVehicleTrips	WD_TR	42.70	8.87
tblVehicleTrips	WD_TR	9.52	5.09
tblWoodstoves	WoodstoveDayYear	60.00	0.00
tblWoodstoves	WoodstoveWoodMass	2,016.00	0.00

## 2.0 Emissions Summary

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Mitigated - San Luis Ranch Project - 2017 Start - San Luis Obispo County APCD Air District, Summer

**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	6.3178	0.0826	7.1358	3.8000e-004		0.0391	0.0391		0.0391	0.0391	0.0000	12.7872	12.7872	0.0126	0.0000	13.1015
Energy	0.0949	0.8126	0.3591	5.1700e-003		0.0656	0.0656		0.0656	0.0656		1,034.9466	1,034.9466	0.0198	0.0190	1,041.0968
Mobile	2.0776	7.5945	20.8086	0.0495	4.0423	0.0715	4.1139	1.0808	0.0676	1.1484		4,977.7921	4,977.7921	0.2324		4,983.6018
<b>Total</b>	<b>8.4902</b>	<b>8.4898</b>	<b>28.3034</b>	<b>0.0550</b>	<b>4.0423</b>	<b>0.1762</b>	<b>4.2185</b>	<b>1.0808</b>	<b>0.1722</b>	<b>1.2530</b>	<b>0.0000</b>	<b>6,025.5259</b>	<b>6,025.5259</b>	<b>0.2648</b>	<b>0.0190</b>	<b>6,037.8001</b>

**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	6.3178	0.0826	7.1358	3.8000e-004		0.0391	0.0391		0.0391	0.0391	0.0000	12.7872	12.7872	0.0126	0.0000	13.1015
Energy	0.0775	0.6638	0.2931	4.2300e-003		0.0536	0.0536		0.0536	0.0536		845.4484	845.4484	0.0162	0.0155	850.4724
Mobile	2.0776	7.5945	20.8086	0.0495	4.0423	0.0715	4.1139	1.0808	0.0676	1.1484		4,977.7921	4,977.7921	0.2324		4,983.6018
<b>Total</b>	<b>8.4729</b>	<b>8.3410</b>	<b>28.2375</b>	<b>0.0541</b>	<b>4.0423</b>	<b>0.1642</b>	<b>4.2065</b>	<b>1.0808</b>	<b>0.1602</b>	<b>1.2410</b>	<b>0.0000</b>	<b>5,836.0277</b>	<b>5,836.0277</b>	<b>0.2612</b>	<b>0.0155</b>	<b>5,847.1757</b>

## Mitigated - San Luis Ranch Project - 2017 Start - San Luis Obispo County APCD Air District, Summer

	ROG	NOx	CO	SO2	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	0.20	1.75	0.23	1.71	0.00	6.81	0.28	0.00	6.97	0.96	0.00	3.14	3.14	1.37	18.29	3.16

### 3.0 Construction Detail

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#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/2/2017	1/13/2017	5	10	
2	Grading	Grading	1/16/2017	2/24/2017	5	30	
3	Building Construction	Building Construction	2/27/2017	4/20/2018	5	300	
4	Architectural Coating	Architectural Coating	10/2/2017	4/27/2018	5	150	
5	Paving	Paving	4/23/2018	5/18/2018	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 75

Acres of Paving: 3.53

Residential Indoor: 313,470; Residential Outdoor: 104,490; Non-Residential Indoor: 75,000; Non-Residential Outdoor: 25,000; Striped Parking Area: 9,213 (Architectural Coating – sqft)

#### OffRoad Equipment

Mitigated - San Luis Ranch Project - 2017 Start - San Luis Obispo County APCD Air District, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	5,580.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	111.00	43.00	0.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	22.00	0.00	0.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**



Mitigated - San Luis Ranch Project - 2017 Start - San Luis Obispo County APCD Air District, Summer

Use Cleaner Engines for Construction Equipment

Use DPF for Construction Equipment

Clean Paved Roads

**3.2 Site Preparation - 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										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.9608	52.2754	23.4554	0.0380		2.8786	2.8786		2.6483	2.6483		3,894.950 0	3,894.950 0	1.1934		3,924.785 2
<b>Total</b>	<b>4.9608</b>	<b>52.2754</b>	<b>23.4554</b>	<b>0.0380</b>	<b>18.0663</b>	<b>2.8786</b>	<b>20.9448</b>	<b>9.9307</b>	<b>2.6483</b>	<b>12.5790</b>		<b>3,894.950 0</b>	<b>3,894.950 0</b>	<b>1.1934</b>		<b>3,924.785 2</b>

Mitigated - San Luis Ranch Project - 2017 Start - San Luis Obispo County APCD Air District, Summer

**3.2 Site Preparation - 2017**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1074	0.0962	0.9501	1.8300e-003	0.1780	1.2800e-003	0.1792	0.0472	1.1900e-003	0.0484		181.6904	181.6904	8.2200e-003		181.8959
<b>Total</b>	<b>0.1074</b>	<b>0.0962</b>	<b>0.9501</b>	<b>1.8300e-003</b>	<b>0.1780</b>	<b>1.2800e-003</b>	<b>0.1792</b>	<b>0.0472</b>	<b>1.1900e-003</b>	<b>0.0484</b>		<b>181.6904</b>	<b>181.6904</b>	<b>8.2200e-003</b>		<b>181.8959</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	0.9312	19.0656	22.9600	0.0380		0.4731	0.4731		0.4731	0.4731	0.0000	3,894.9500	3,894.9500	1.1934		3,924.7852
<b>Total</b>	<b>0.9312</b>	<b>19.0656</b>	<b>22.9600</b>	<b>0.0380</b>	<b>18.0663</b>	<b>0.4731</b>	<b>18.5393</b>	<b>9.9307</b>	<b>0.4731</b>	<b>10.4038</b>	<b>0.0000</b>	<b>3,894.9500</b>	<b>3,894.9500</b>	<b>1.1934</b>		<b>3,924.7852</b>

Mitigated - San Luis Ranch Project - 2017 Start - San Luis Obispo County APCD Air District, Summer

**3.2 Site Preparation - 2017**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1074	0.0962	0.9501	1.8300e-003	0.1780	1.2800e-003	0.1792	0.0472	1.1900e-003	0.0484		181.6904	181.6904	8.2200e-003		181.8959
<b>Total</b>	<b>0.1074</b>	<b>0.0962</b>	<b>0.9501</b>	<b>1.8300e-003</b>	<b>0.1780</b>	<b>1.2800e-003</b>	<b>0.1792</b>	<b>0.0472</b>	<b>1.1900e-003</b>	<b>0.0484</b>		<b>181.6904</b>	<b>181.6904</b>	<b>8.2200e-003</b>		<b>181.8959</b>

**3.3 Grading - 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										lb/day					
Fugitive Dust					8.9472	0.0000	8.9472	3.6380	0.0000	3.6380			0.0000			0.0000
Off-Road	5.7483	67.9396	38.7826	0.0620		3.0727	3.0727		2.8269	2.8269		6,344.8863	6,344.8863	1.9441		6,393.4879
<b>Total</b>	<b>5.7483</b>	<b>67.9396</b>	<b>38.7826</b>	<b>0.0620</b>	<b>8.9472</b>	<b>3.0727</b>	<b>12.0199</b>	<b>3.6380</b>	<b>2.8269</b>	<b>6.4649</b>		<b>6,344.8863</b>	<b>6,344.8863</b>	<b>1.9441</b>		<b>6,393.4879</b>

Mitigated - San Luis Ranch Project - 2017 Start - San Luis Obispo County APCD Air District, Summer

**3.3 Grading - 2017**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	2.6259	73.9973	17.0575	0.1516	3.2418	0.7132	3.9550	0.8878	0.6824	1.5701		16,250.6472	16,250.6472	0.8973		16,273.0791
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	0.1193	0.1069	1.0556	2.0300e-003	0.1977	1.4200e-003	0.1992	0.0524	1.3200e-003	0.0538		201.8782	201.8782	9.1300e-003		202.1066
<b>Total</b>	<b>2.7453</b>	<b>74.1042</b>	<b>18.1131</b>	<b>0.1537</b>	<b>3.4395</b>	<b>0.7147</b>	<b>4.1542</b>	<b>0.9402</b>	<b>0.6837</b>	<b>1.6239</b>		<b>16,452.5254</b>	<b>16,452.5254</b>	<b>0.9064</b>		<b>16,475.1856</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.9472	0.0000	8.9472	3.6380	0.0000	3.6380			0.0000			0.0000
Off-Road	1.5231	29.9782	36.7226	0.0620		0.6497	0.6497		0.6497	0.6497	0.0000	6,344.8863	6,344.8863	1.9441		6,393.4878
<b>Total</b>	<b>1.5231</b>	<b>29.9782</b>	<b>36.7226</b>	<b>0.0620</b>	<b>8.9472</b>	<b>0.6497</b>	<b>9.5969</b>	<b>3.6380</b>	<b>0.6497</b>	<b>4.2877</b>	<b>0.0000</b>	<b>6,344.8863</b>	<b>6,344.8863</b>	<b>1.9441</b>		<b>6,393.4878</b>

Mitigated - San Luis Ranch Project - 2017 Start - San Luis Obispo County APCD Air District, Summer

**3.3 Grading - 2017**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	2.6259	73.9973	17.0575	0.1516	3.2418	0.7132	3.9550	0.8878	0.6824	1.5701		16,250.6472	16,250.6472	0.8973		16,273.0791
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	0.1193	0.1069	1.0556	2.0300e-003	0.1977	1.4200e-003	0.1992	0.0524	1.3200e-003	0.0538		201.8782	201.8782	9.1300e-003		202.1066
<b>Total</b>	<b>2.7453</b>	<b>74.1042</b>	<b>18.1131</b>	<b>0.1537</b>	<b>3.4395</b>	<b>0.7147</b>	<b>4.1542</b>	<b>0.9402</b>	<b>0.6837</b>	<b>1.6239</b>		<b>16,452.5254</b>	<b>16,452.5254</b>	<b>0.9064</b>		<b>16,475.1856</b>

**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										lb/day					
Off-Road	3.1149	26.5546	18.1825	0.0269		1.7879	1.7879		1.6791	1.6791		2,650.9797	2,650.9797	0.6531		2,667.3078
<b>Total</b>	<b>3.1149</b>	<b>26.5546</b>	<b>18.1825</b>	<b>0.0269</b>		<b>1.7879</b>	<b>1.7879</b>		<b>1.6791</b>	<b>1.6791</b>		<b>2,650.9797</b>	<b>2,650.9797</b>	<b>0.6531</b>		<b>2,667.3078</b>

Mitigated - San Luis Ranch Project - 2017 Start - San Luis Obispo County APCD Air District, Summer

**3.4 Building Construction - 2017**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.2599	5.3897	1.8358	8.7300e-003	0.1995	0.0586	0.2581	0.0575	0.0560	0.1135		924.9468	924.9468	0.0618			926.4905
Worker	0.6622	0.5934	5.8587	0.0113	1.0974	7.9000e-003	1.1053	0.2910	7.3200e-003	0.2984		1,120.4241	1,120.4241	0.0507			1,121.6913
<b>Total</b>	<b>0.9222</b>	<b>5.9831</b>	<b>7.6945</b>	<b>0.0200</b>	<b>1.2969</b>	<b>0.0665</b>	<b>1.3633</b>	<b>0.3485</b>	<b>0.0634</b>	<b>0.4118</b>		<b>2,045.3710</b>	<b>2,045.3710</b>	<b>0.1124</b>			<b>2,048.1819</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	0.6739	14.2261	17.8738	0.0269		0.4518	0.4518		0.4518	0.4518	0.0000	2,650.9797	2,650.9797	0.6531			2,667.3078
<b>Total</b>	<b>0.6739</b>	<b>14.2261</b>	<b>17.8738</b>	<b>0.0269</b>		<b>0.4518</b>	<b>0.4518</b>		<b>0.4518</b>	<b>0.4518</b>	<b>0.0000</b>	<b>2,650.9797</b>	<b>2,650.9797</b>	<b>0.6531</b>			<b>2,667.3078</b>

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**3.4 Building Construction - 2017**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2599	5.3897	1.8358	8.7300e-003	0.1995	0.0586	0.2581	0.0575	0.0560	0.1135		924.9468	924.9468	0.0618		926.4905
Worker	0.6622	0.5934	5.8587	0.0113	1.0974	7.9000e-003	1.1053	0.2910	7.3200e-003	0.2984		1,120.4241	1,120.4241	0.0507		1,121.6913
<b>Total</b>	<b>0.9222</b>	<b>5.9831</b>	<b>7.6945</b>	<b>0.0200</b>	<b>1.2969</b>	<b>0.0665</b>	<b>1.3633</b>	<b>0.3485</b>	<b>0.0634</b>	<b>0.4118</b>		<b>2,045.3710</b>	<b>2,045.3710</b>	<b>0.1124</b>		<b>2,048.1819</b>

**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										lb/day					
Off-Road	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099		2,620.9351	2,620.9351	0.6421		2,636.9883
<b>Total</b>	<b>2.6795</b>	<b>23.3900</b>	<b>17.5804</b>	<b>0.0269</b>		<b>1.4999</b>	<b>1.4999</b>		<b>1.4099</b>	<b>1.4099</b>		<b>2,620.9351</b>	<b>2,620.9351</b>	<b>0.6421</b>		<b>2,636.9883</b>

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**3.4 Building Construction - 2018**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2262	5.1028	1.6406	8.7300e-003	0.1995	0.0474	0.2469	0.0575	0.0453	0.1028		926.6986	926.6986	0.0588		928.1688
Worker	0.5808	0.5139	5.0685	0.0110	1.0974	7.5000e-003	1.1049	0.2910	6.9400e-003	0.2980		1,090.1903	1,090.1903	0.0441		1,091.2938
<b>Total</b>	<b>0.8069</b>	<b>5.6166</b>	<b>6.7090</b>	<b>0.0197</b>	<b>1.2969</b>	<b>0.0549</b>	<b>1.3517</b>	<b>0.3485</b>	<b>0.0522</b>	<b>0.4007</b>		<b>2,016.8889</b>	<b>2,016.8889</b>	<b>0.1030</b>		<b>2,019.4626</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6739	14.2261	17.8738	0.0269		0.4518	0.4518		0.4518	0.4518	0.0000	2,620.9351	2,620.9351	0.6421		2,636.9883
<b>Total</b>	<b>0.6739</b>	<b>14.2261</b>	<b>17.8738</b>	<b>0.0269</b>		<b>0.4518</b>	<b>0.4518</b>		<b>0.4518</b>	<b>0.4518</b>	<b>0.0000</b>	<b>2,620.9351</b>	<b>2,620.9351</b>	<b>0.6421</b>		<b>2,636.9883</b>



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**3.4 Building Construction - 2018**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2262	5.1028	1.6406	8.7300e-003	0.1995	0.0474	0.2469	0.0575	0.0453	0.1028		926.6986	926.6986	0.0588		928.1688
Worker	0.5808	0.5139	5.0685	0.0110	1.0974	7.5000e-003	1.1049	0.2910	6.9400e-003	0.2980		1,090.1903	1,090.1903	0.0441		1,091.2938
<b>Total</b>	<b>0.8069</b>	<b>5.6166</b>	<b>6.7090</b>	<b>0.0197</b>	<b>1.2969</b>	<b>0.0549</b>	<b>1.3517</b>	<b>0.3485</b>	<b>0.0522</b>	<b>0.4007</b>		<b>2,016.8889</b>	<b>2,016.8889</b>	<b>0.1030</b>		<b>2,019.4626</b>

**3.5 Architectural Coating - 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										lb/day					
Archit. Coating	8.1448					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3323	2.1850	1.8681	2.9700e-003		0.1733	0.1733		0.1733	0.1733		281.4481	281.4481	0.0297		282.1909
<b>Total</b>	<b>8.4771</b>	<b>2.1850</b>	<b>1.8681</b>	<b>2.9700e-003</b>		<b>0.1733</b>	<b>0.1733</b>		<b>0.1733</b>	<b>0.1733</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0297</b>		<b>282.1909</b>

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**3.5 Architectural Coating - 2017**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1313	0.1176	1.1612	2.2400e-003	0.2175	1.5700e-003	0.2191	0.0577	1.4500e-003	0.0591		222.0661	222.0661	0.0101		222.3172
<b>Total</b>	<b>0.1313</b>	<b>0.1176</b>	<b>1.1612</b>	<b>2.2400e-003</b>	<b>0.2175</b>	<b>1.5700e-003</b>	<b>0.2191</b>	<b>0.0577</b>	<b>1.4500e-003</b>	<b>0.0591</b>		<b>222.0661</b>	<b>222.0661</b>	<b>0.0101</b>		<b>222.3172</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	8.1448					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0594	1.3570	1.8324	2.9700e-003		0.0475	0.0475		0.0475	0.0475	0.0000	281.4481	281.4481	0.0297		282.1909
<b>Total</b>	<b>8.2043</b>	<b>1.3570</b>	<b>1.8324</b>	<b>2.9700e-003</b>		<b>0.0475</b>	<b>0.0475</b>		<b>0.0475</b>	<b>0.0475</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0297</b>		<b>282.1909</b>

Mitigated - San Luis Ranch Project - 2017 Start - San Luis Obispo County APCD Air District, Summer

**3.5 Architectural Coating - 2017**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1313	0.1176	1.1612	2.2400e-003	0.2175	1.5700e-003	0.2191	0.0577	1.4500e-003	0.0591		222.0661	222.0661	0.0101		222.3172
<b>Total</b>	<b>0.1313</b>	<b>0.1176</b>	<b>1.1612</b>	<b>2.2400e-003</b>	<b>0.2175</b>	<b>1.5700e-003</b>	<b>0.2191</b>	<b>0.0577</b>	<b>1.4500e-003</b>	<b>0.0591</b>		<b>222.0661</b>	<b>222.0661</b>	<b>0.0101</b>		<b>222.3172</b>

**3.5 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	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	8.1448					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2986	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506		281.4485	281.4485	0.0267		282.1171
<b>Total</b>	<b>8.4435</b>	<b>2.0058</b>	<b>1.8542</b>	<b>2.9700e-003</b>		<b>0.1506</b>	<b>0.1506</b>		<b>0.1506</b>	<b>0.1506</b>		<b>281.4485</b>	<b>281.4485</b>	<b>0.0267</b>		<b>282.1171</b>

Mitigated - San Luis Ranch Project - 2017 Start - San Luis Obispo County APCD Air District, Summer

**3.5 Architectural Coating - 2018**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1151	0.1018	1.0046	2.1700e-003	0.2175	1.4900e-003	0.2190	0.0577	1.3700e-003	0.0591		216.0738	216.0738	8.7500e-003		216.2925
<b>Total</b>	<b>0.1151</b>	<b>0.1018</b>	<b>1.0046</b>	<b>2.1700e-003</b>	<b>0.2175</b>	<b>1.4900e-003</b>	<b>0.2190</b>	<b>0.0577</b>	<b>1.3700e-003</b>	<b>0.0591</b>		<b>216.0738</b>	<b>216.0738</b>	<b>8.7500e-003</b>		<b>216.2925</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	8.1448					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0594	1.3570	1.8324	2.9700e-003		0.0475	0.0475		0.0475	0.0475	0.0000	281.4485	281.4485	0.0267		282.1171
<b>Total</b>	<b>8.2043</b>	<b>1.3570</b>	<b>1.8324</b>	<b>2.9700e-003</b>		<b>0.0475</b>	<b>0.0475</b>		<b>0.0475</b>	<b>0.0475</b>	<b>0.0000</b>	<b>281.4485</b>	<b>281.4485</b>	<b>0.0267</b>		<b>282.1171</b>

Mitigated - San Luis Ranch Project - 2017 Start - San Luis Obispo County APCD Air District, Summer

**3.5 Architectural Coating - 2018**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1151	0.1018	1.0046	2.1700e-003	0.2175	1.4900e-003	0.2190	0.0577	1.3700e-003	0.0591		216.0738	216.0738	8.7500e-003		216.2925
<b>Total</b>	<b>0.1151</b>	<b>0.1018</b>	<b>1.0046</b>	<b>2.1700e-003</b>	<b>0.2175</b>	<b>1.4900e-003</b>	<b>0.2190</b>	<b>0.0577</b>	<b>1.3700e-003</b>	<b>0.0591</b>		<b>216.0738</b>	<b>216.0738</b>	<b>8.7500e-003</b>		<b>216.2925</b>

**3.6 Paving - 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										lb/day					
Off-Road	1.6437	17.5209	14.7964	0.0228		0.9561	0.9561		0.8797	0.8797		2,294.0887	2,294.0887	0.7142		2,311.9432
Paving	0.4624					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>2.1061</b>	<b>17.5209</b>	<b>14.7964</b>	<b>0.0228</b>		<b>0.9561</b>	<b>0.9561</b>		<b>0.8797</b>	<b>0.8797</b>		<b>2,294.0887</b>	<b>2,294.0887</b>	<b>0.7142</b>		<b>2,311.9432</b>

Mitigated - San Luis Ranch Project - 2017 Start - San Luis Obispo County APCD Air District, Summer

**3.6 Paving - 2018**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0785	0.0694	0.6849	1.4800e-003	0.1483	1.0100e-003	0.1493	0.0393	9.4000e-004	0.0403		147.3230	147.3230	5.9600e-003		147.4721
<b>Total</b>	<b>0.0785</b>	<b>0.0694</b>	<b>0.6849</b>	<b>1.4800e-003</b>	<b>0.1483</b>	<b>1.0100e-003</b>	<b>0.1493</b>	<b>0.0393</b>	<b>9.4000e-004</b>	<b>0.0403</b>		<b>147.3230</b>	<b>147.3230</b>	<b>5.9600e-003</b>		<b>147.4721</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5609	11.2952	17.2957	0.0228		0.3047	0.3047		0.3047	0.3047	0.0000	2,294.0887	2,294.0887	0.7142		2,311.9432
Paving	0.4624					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.0234</b>	<b>11.2952</b>	<b>17.2957</b>	<b>0.0228</b>		<b>0.3047</b>	<b>0.3047</b>		<b>0.3047</b>	<b>0.3047</b>	<b>0.0000</b>	<b>2,294.0887</b>	<b>2,294.0887</b>	<b>0.7142</b>		<b>2,311.9432</b>

Mitigated - San Luis Ranch Project - 2017 Start - San Luis Obispo County APCD Air District, Summer

**3.6 Paving - 2018**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0785	0.0694	0.6849	1.4800e-003	0.1483	1.0100e-003	0.1493	0.0393	9.4000e-004	0.0403		147.3230	147.3230	5.9600e-003		147.4721
<b>Total</b>	<b>0.0785</b>	<b>0.0694</b>	<b>0.6849</b>	<b>1.4800e-003</b>	<b>0.1483</b>	<b>1.0100e-003</b>	<b>0.1493</b>	<b>0.0393</b>	<b>9.4000e-004</b>	<b>0.0403</b>		<b>147.3230</b>	<b>147.3230</b>	<b>5.9600e-003</b>		<b>147.4721</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

Mitigated - San Luis Ranch Project - 2017 Start - San Luis Obispo County APCD Air District, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	2.0776	7.5945	20.8086	0.0495	4.0423	0.0715	4.1139	1.0808	0.0676	1.1484		4,977.792 1	4,977.792 1	0.2324		4,983.601 8
Unmitigated	2.0776	7.5945	20.8086	0.0495	4.0423	0.0715	4.1139	1.0808	0.0676	1.1484		4,977.792 1	4,977.792 1	0.2324		4,983.601 8

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Regional Shopping Center	443.50	519.00	262.00	618,505	618,505
Single Family Housing	437.74	454.94	396.46	1,103,798	1,103,798
Total	881.24	973.94	658.46	1,722,303	1,722,303

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
Parking Lot	13.00	5.00	5.00	0.00	0.00	0.00	0	0	0
Parking Lot	13.00	5.00	5.00	0.00	0.00	0.00	0	0	0
Parking Lot	13.00	5.00	5.00	0.00	0.00	0.00	0	0	0
Regional Shopping Center	13.00	5.00	5.00	16.30	64.70	19.00	54	35	11
Single Family Housing	13.00	5.00	5.00	35.80	21.00	43.20	86	11	3



Mitigated - San Luis Ranch Project - 2017 Start - San Luis Obispo County APCD Air District, Summer

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Parking Lot	0.549382	0.034064	0.198767	0.132360	0.033447	0.007872	0.013134	0.018943	0.002404	0.001320	0.005630	0.000825	0.001852
Parking Lot	0.549382	0.034064	0.198767	0.132360	0.033447	0.007872	0.013134	0.018943	0.002404	0.001320	0.005630	0.000825	0.001852
Parking Lot	0.549382	0.034064	0.198767	0.132360	0.033447	0.007872	0.013134	0.018943	0.002404	0.001320	0.005630	0.000825	0.001852
Single Family Housing	0.549382	0.034064	0.198767	0.132360	0.033447	0.007872	0.013134	0.018943	0.002404	0.001320	0.005630	0.000825	0.001852
Regional Shopping Center	0.549382	0.034064	0.198767	0.132360	0.033447	0.007872	0.013134	0.018943	0.002404	0.001320	0.005630	0.000825	0.001852

**5.0 Energy Detail**

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	0.0775	0.6638	0.2931	4.2300e-003		0.0536	0.0536		0.0536	0.0536		845.4484	845.4484	0.0162	0.0155	850.4724
NaturalGas Unmitigated	0.0949	0.8126	0.3591	5.1700e-003		0.0656	0.0656		0.0656	0.0656		1,034.9466	1,034.9466	0.0198	0.0190	1,041.0968

Mitigated - San Luis Ranch Project - 2017 Start - San Luis Obispo County APCD Air District, Summer

**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					
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	326.027	3.5200e-003	0.0320	0.0269	1.9000e-004		2.4300e-003	2.4300e-003		2.4300e-003	2.4300e-003		38.3562	38.3562	7.4000e-004	7.0000e-004	38.5841
Single Family Housing	8471.02	0.0914	0.7807	0.3322	4.9800e-003		0.0631	0.0631		0.0631	0.0631		996.5905	996.5905	0.0191	0.0183	1,002.5127
<b>Total</b>		<b>0.0949</b>	<b>0.8126</b>	<b>0.3591</b>	<b>5.1700e-003</b>		<b>0.0656</b>	<b>0.0656</b>		<b>0.0656</b>	<b>0.0656</b>		<b>1,034.9466</b>	<b>1,034.9466</b>	<b>0.0198</b>	<b>0.0190</b>	<b>1,041.0968</b>

**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					
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	0.260822	2.8100e-003	0.0256	0.0215	1.5000e-004		1.9400e-003	1.9400e-003		1.9400e-003	1.9400e-003		30.6849	30.6849	5.9000e-004	5.6000e-004	30.8673
Single Family Housing	6.92549	0.0747	0.6382	0.2716	4.0700e-003		0.0516	0.0516		0.0516	0.0516		814.7634	814.7634	0.0156	0.0149	819.6052
<b>Total</b>		<b>0.0775</b>	<b>0.6638</b>	<b>0.2931</b>	<b>4.2200e-003</b>		<b>0.0535</b>	<b>0.0535</b>		<b>0.0535</b>	<b>0.0535</b>		<b>845.4484</b>	<b>845.4484</b>	<b>0.0162</b>	<b>0.0155</b>	<b>850.4724</b>

**6.0 Area Detail**

Mitigated - San Luis Ranch Project - 2017 Start - San Luis Obispo County APCD Air District, Summer

**6.1 Mitigation Measures Area**

No Hearths Installed

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	6.3178	0.0826	7.1358	3.8000e-004		0.0391	0.0391		0.0391	0.0391	0.0000	12.7872	12.7872	0.0126	0.0000	13.1015
Unmitigated	6.3178	0.0826	7.1358	3.8000e-004		0.0391	0.0391		0.0391	0.0391	0.0000	12.7872	12.7872	0.0126	0.0000	13.1015

Mitigated - San Luis Ranch Project - 2017 Start - San Luis Obispo County APCD Air District, Summer

**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	1.6619					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	4.4371					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.2188	0.0826	7.1358	3.8000e-004		0.0391	0.0391		0.0391	0.0391		12.7872	12.7872	0.0126		13.1015
<b>Total</b>	<b>6.3178</b>	<b>0.0826</b>	<b>7.1358</b>	<b>3.8000e-004</b>		<b>0.0391</b>	<b>0.0391</b>		<b>0.0391</b>	<b>0.0391</b>	<b>0.0000</b>	<b>12.7872</b>	<b>12.7872</b>	<b>0.0126</b>	<b>0.0000</b>	<b>13.1015</b>

Mitigated - San Luis Ranch Project - 2017 Start - San Luis Obispo County APCD Air District, Summer

**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	1.6619					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	4.4371					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.2188	0.0826	7.1358	3.8000e-004		0.0391	0.0391		0.0391	0.0391		12.7872	12.7872	0.0126		13.1015
<b>Total</b>	<b>6.3178</b>	<b>0.0826</b>	<b>7.1358</b>	<b>3.8000e-004</b>		<b>0.0391</b>	<b>0.0391</b>		<b>0.0391</b>	<b>0.0391</b>	<b>0.0000</b>	<b>12.7872</b>	<b>12.7872</b>	<b>0.0126</b>	<b>0.0000</b>	<b>13.1015</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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

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Mitigated - San Luis Ranch Project - 2017 Start - San Luis Obispo County APCD Air District, Summer

**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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**11.0 Vegetation**

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Mitigated - San Luis Ranch Project - 2017 Start - San Luis Obispo County APCD Air District, Winter

**Mitigated - San Luis Ranch Project - 2017 Start**  
**San Luis Obispo County APCD Air District, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	1.23	Acre	1.23	53,361.00	0
Parking Lot	1.00	Acre	1.00	43,560.00	0
Parking Lot	1.30	Acre	1.30	56,628.00	0
Single Family Housing	86.00	Dwelling Unit	8.00	154,800.00	246
Regional Shopping Center	50.00	1000sqft	1.15	50,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	3.2	<b>Precipitation Freq (Days)</b>	44
<b>Climate Zone</b>	4			<b>Operational Year</b>	2019
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	641.35	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

**1.3 User Entered Comments & Non-Default Data**

Mitigated - San Luis Ranch Project - 2017 Start - San Luis Obispo County APCD Air District, Winter

Project Characteristics -

Land Use - Land use values from buildout and phasing in Specific Plan Section 7.7. Includes portions of Phases 1, 2, and 6, and improvements to From Ext and Madonna Rd

Construction Phase - No demolition in phases 1, 2, and 6. AC expected to overlap with half of building construction as painting would occur as buildings are finished.

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Grading - Total import proportionally distributed by phase acreage.

Vehicle Trips - Trip generation rate based on Omni-Means 2016 Traffic Impact Study.

Mobile Land Use Mitigation - Trip reductions from project's density, diversity, and access to alternative transportation accounted for in trip generation rates.

Energy Mitigation - Per Specific Plan, appliances will be energy efficient. Per MM AQ-3 Exceed Title 24

Water Mitigation -

Architectural Coating - Per MM AQ-2

Woodstoves - Per MM AQ-3

Construction Off-road Equipment Mitigation - Per MM AQ-2

Area Mitigation - Per MM AQ-3

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	50.00
tblArchitecturalCoating	EF_Parking	150.00	50.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	50.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	50.00
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	0
tblConstEquipMitigation	DPF	No Change	Level 2
tblConstEquipMitigation	DPF	No Change	Level 2
tblConstEquipMitigation	DPF	No Change	Level 2



Mitigated - San Luis Ranch Project - 2017 Start - San Luis Obispo County APCD Air District, Winter

tblConstEquipMitigation	DPF	No Change	Level 2
tblConstEquipMitigation	DPF	No Change	Level 2
tblConstEquipMitigation	DPF	No Change	Level 2
tblConstEquipMitigation	DPF	No Change	Level 2
tblConstEquipMitigation	DPF	No Change	Level 2
tblConstEquipMitigation	DPF	No Change	Level 2
tblConstEquipMitigation	DPF	No Change	Level 2
tblConstEquipMitigation	DPF	No Change	Level 2
tblConstEquipMitigation	DPF	No Change	Level 2
tblConstEquipMitigation	DPF	No Change	Level 2
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3

## Mitigated - San Luis Ranch Project - 2017 Start - San Luis Obispo County APCD Air District, Winter

tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	20.00	150.00
tblGrading	MaterialImported	0.00	44,640.00
tblLandUse	BuildingSpaceSquareFeet	53,578.80	53,361.00
tblLandUse	LandUseSquareFeet	53,578.80	53,361.00
tblLandUse	LotAcreage	27.92	8.00
tblProjectCharacteristics	OperationalYear	2018	2019
tblVehicleTrips	ST_TR	49.97	10.38
tblVehicleTrips	ST_TR	9.91	5.29
tblVehicleTrips	SU_TR	25.24	5.24
tblVehicleTrips	SU_TR	8.62	4.61
tblVehicleTrips	WD_TR	42.70	8.87
tblVehicleTrips	WD_TR	9.52	5.09
tblWoodstoves	WoodstoveDayYear	60.00	0.00
tblWoodstoves	WoodstoveWoodMass	2,016.00	0.00

## 2.0 Emissions Summary

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Mitigated - San Luis Ranch Project - 2017 Start - San Luis Obispo County APCD Air District, Winter

**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	6.3178	0.0826	7.1358	3.8000e-004		0.0391	0.0391		0.0391	0.0391	0.0000	12.7872	12.7872	0.0126	0.0000	13.1015
Energy	0.0949	0.8126	0.3591	5.1700e-003		0.0656	0.0656		0.0656	0.0656		1,034.9466	1,034.9466	0.0198	0.0190	1,041.0968
Mobile	2.0317	7.8849	21.7107	0.0475	4.0423	0.0724	4.1148	1.0808	0.0684	1.1492		4,782.0197	4,782.0197	0.2373		4,787.9522
<b>Total</b>	<b>8.4443</b>	<b>8.7802</b>	<b>29.2055</b>	<b>0.0531</b>	<b>4.0423</b>	<b>0.1771</b>	<b>4.2194</b>	<b>1.0808</b>	<b>0.1731</b>	<b>1.2539</b>	<b>0.0000</b>	<b>5,829.7535</b>	<b>5,829.7535</b>	<b>0.2697</b>	<b>0.0190</b>	<b>5,842.1505</b>

**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	6.3178	0.0826	7.1358	3.8000e-004		0.0391	0.0391		0.0391	0.0391	0.0000	12.7872	12.7872	0.0126	0.0000	13.1015
Energy	0.0775	0.6638	0.2931	4.2300e-003		0.0536	0.0536		0.0536	0.0536		845.4484	845.4484	0.0162	0.0155	850.4724
Mobile	2.0317	7.8849	21.7107	0.0475	4.0423	0.0724	4.1148	1.0808	0.0684	1.1492		4,782.0197	4,782.0197	0.2373		4,787.9522
<b>Total</b>	<b>8.4270</b>	<b>8.6313</b>	<b>29.1395</b>	<b>0.0522</b>	<b>4.0423</b>	<b>0.1651</b>	<b>4.2074</b>	<b>1.0808</b>	<b>0.1611</b>	<b>1.2419</b>	<b>0.0000</b>	<b>5,640.2553</b>	<b>5,640.2553</b>	<b>0.2661</b>	<b>0.0155</b>	<b>5,651.5262</b>

## Mitigated - San Luis Ranch Project - 2017 Start - San Luis Obispo County APCD Air District, Winter

	ROG	NOx	CO	SO2	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	0.21	1.70	0.23	1.77	0.00	6.78	0.28	0.00	6.93	0.96	0.00	3.25	3.25	1.35	18.29	3.26

### 3.0 Construction Detail

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#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/2/2017	1/13/2017	5	10	
2	Grading	Grading	1/16/2017	2/24/2017	5	30	
3	Building Construction	Building Construction	2/27/2017	4/20/2018	5	300	
4	Architectural Coating	Architectural Coating	10/2/2017	4/27/2018	5	150	
5	Paving	Paving	4/23/2018	5/18/2018	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 75

Acres of Paving: 3.53

Residential Indoor: 313,470; Residential Outdoor: 104,490; Non-Residential Indoor: 75,000; Non-Residential Outdoor: 25,000; Striped Parking Area: 9,213 (Architectural Coating – sqft)

#### OffRoad Equipment

Mitigated - San Luis Ranch Project - 2017 Start - San Luis Obispo County APCD Air District, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	5,580.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	111.00	43.00	0.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	22.00	0.00	0.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Mitigated - San Luis Ranch Project - 2017 Start - San Luis Obispo County APCD Air District, Winter

Use Cleaner Engines for Construction Equipment

Use DPF for Construction Equipment

Clean Paved Roads

**3.2 Site Preparation - 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										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.9608	52.2754	23.4554	0.0380		2.8786	2.8786		2.6483	2.6483		3,894.950 0	3,894.950 0	1.1934		3,924.785 2
<b>Total</b>	<b>4.9608</b>	<b>52.2754</b>	<b>23.4554</b>	<b>0.0380</b>	<b>18.0663</b>	<b>2.8786</b>	<b>20.9448</b>	<b>9.9307</b>	<b>2.6483</b>	<b>12.5790</b>		<b>3,894.950 0</b>	<b>3,894.950 0</b>	<b>1.1934</b>		<b>3,924.785 2</b>

Mitigated - San Luis Ranch Project - 2017 Start - San Luis Obispo County APCD Air District, Winter

**3.2 Site Preparation - 2017**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1220	0.1091	0.9425	1.7400e-003	0.1780	1.2800e-003	0.1792	0.0472	1.1900e-003	0.0484		173.2291	173.2291	8.0700e-003		173.4309
<b>Total</b>	<b>0.1220</b>	<b>0.1091</b>	<b>0.9425</b>	<b>1.7400e-003</b>	<b>0.1780</b>	<b>1.2800e-003</b>	<b>0.1792</b>	<b>0.0472</b>	<b>1.1900e-003</b>	<b>0.0484</b>		<b>173.2291</b>	<b>173.2291</b>	<b>8.0700e-003</b>		<b>173.4309</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	0.9312	19.0656	22.9600	0.0380		0.4731	0.4731		0.4731	0.4731	0.0000	3,894.9500	3,894.9500	1.1934		3,924.7852
<b>Total</b>	<b>0.9312</b>	<b>19.0656</b>	<b>22.9600</b>	<b>0.0380</b>	<b>18.0663</b>	<b>0.4731</b>	<b>18.5393</b>	<b>9.9307</b>	<b>0.4731</b>	<b>10.4038</b>	<b>0.0000</b>	<b>3,894.9500</b>	<b>3,894.9500</b>	<b>1.1934</b>		<b>3,924.7852</b>



Mitigated - San Luis Ranch Project - 2017 Start - San Luis Obispo County APCD Air District, Winter

**3.2 Site Preparation - 2017**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1220	0.1091	0.9425	1.7400e-003	0.1780	1.2800e-003	0.1792	0.0472	1.1900e-003	0.0484		173.2291	173.2291	8.0700e-003		173.4309
<b>Total</b>	<b>0.1220</b>	<b>0.1091</b>	<b>0.9425</b>	<b>1.7400e-003</b>	<b>0.1780</b>	<b>1.2800e-003</b>	<b>0.1792</b>	<b>0.0472</b>	<b>1.1900e-003</b>	<b>0.0484</b>		<b>173.2291</b>	<b>173.2291</b>	<b>8.0700e-003</b>		<b>173.4309</b>

**3.3 Grading - 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										lb/day					
Fugitive Dust					8.9472	0.0000	8.9472	3.6380	0.0000	3.6380			0.0000			0.0000
Off-Road	5.7483	67.9396	38.7826	0.0620		3.0727	3.0727		2.8269	2.8269		6,344.8863	6,344.8863	1.9441		6,393.4879
<b>Total</b>	<b>5.7483</b>	<b>67.9396</b>	<b>38.7826</b>	<b>0.0620</b>	<b>8.9472</b>	<b>3.0727</b>	<b>12.0199</b>	<b>3.6380</b>	<b>2.8269</b>	<b>6.4649</b>		<b>6,344.8863</b>	<b>6,344.8863</b>	<b>1.9441</b>		<b>6,393.4879</b>

Mitigated - San Luis Ranch Project - 2017 Start - San Luis Obispo County APCD Air District, Winter

**3.3 Grading - 2017**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	2.6880	74.7048	18.1277	0.1497	3.2418	0.7237	3.9655	0.8878	0.6924	1.5802		16,041.2137	16,041.2137	0.9288		16,064.4338
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	0.1356	0.1213	1.0473	1.9400e-003	0.1977	1.4200e-003	0.1992	0.0524	1.3200e-003	0.0538		192.4768	192.4768	8.9700e-003		192.7010
<b>Total</b>	<b>2.8236</b>	<b>74.8261</b>	<b>19.1750</b>	<b>0.1516</b>	<b>3.4395</b>	<b>0.7251</b>	<b>4.1647</b>	<b>0.9402</b>	<b>0.6937</b>	<b>1.6339</b>		<b>16,233.6905</b>	<b>16,233.6905</b>	<b>0.9378</b>		<b>16,257.1348</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.9472	0.0000	8.9472	3.6380	0.0000	3.6380			0.0000			0.0000
Off-Road	1.5231	29.9782	36.7226	0.0620		0.6497	0.6497		0.6497	0.6497	0.0000	6,344.8863	6,344.8863	1.9441		6,393.4878
<b>Total</b>	<b>1.5231</b>	<b>29.9782</b>	<b>36.7226</b>	<b>0.0620</b>	<b>8.9472</b>	<b>0.6497</b>	<b>9.5969</b>	<b>3.6380</b>	<b>0.6497</b>	<b>4.2877</b>	<b>0.0000</b>	<b>6,344.8863</b>	<b>6,344.8863</b>	<b>1.9441</b>		<b>6,393.4878</b>

Mitigated - San Luis Ranch Project - 2017 Start - San Luis Obispo County APCD Air District, Winter

**3.3 Grading - 2017**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	2.6880	74.7048	18.1277	0.1497	3.2418	0.7237	3.9655	0.8878	0.6924	1.5802		16,041.2137	16,041.2137	0.9288		16,064.4338
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	0.1356	0.1213	1.0473	1.9400e-003	0.1977	1.4200e-003	0.1992	0.0524	1.3200e-003	0.0538		192.4768	192.4768	8.9700e-003		192.7010
<b>Total</b>	<b>2.8236</b>	<b>74.8261</b>	<b>19.1750</b>	<b>0.1516</b>	<b>3.4395</b>	<b>0.7251</b>	<b>4.1647</b>	<b>0.9402</b>	<b>0.6937</b>	<b>1.6339</b>		<b>16,233.6905</b>	<b>16,233.6905</b>	<b>0.9378</b>		<b>16,257.1348</b>

**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										lb/day					
Off-Road	3.1149	26.5546	18.1825	0.0269		1.7879	1.7879		1.6791	1.6791		2,650.9797	2,650.9797	0.6531		2,667.3078
<b>Total</b>	<b>3.1149</b>	<b>26.5546</b>	<b>18.1825</b>	<b>0.0269</b>		<b>1.7879</b>	<b>1.7879</b>		<b>1.6791</b>	<b>1.6791</b>		<b>2,650.9797</b>	<b>2,650.9797</b>	<b>0.6531</b>		<b>2,667.3078</b>

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**3.4 Building Construction - 2017**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2732	5.3830	2.0493	8.5000e-003	0.1995	0.0599	0.2594	0.0575	0.0574	0.1148		899.7995	899.7995	0.0660		901.4487
Worker	0.7525	0.6730	5.8123	0.0108	1.0974	7.9000e-003	1.1053	0.2910	7.3200e-003	0.2984		1,068.2461	1,068.2461	0.0498		1,069.4903
<b>Total</b>	<b>1.0257</b>	<b>6.0560</b>	<b>7.8616</b>	<b>0.0193</b>	<b>1.2969</b>	<b>0.0678</b>	<b>1.3647</b>	<b>0.3485</b>	<b>0.0647</b>	<b>0.4132</b>		<b>1,968.0456</b>	<b>1,968.0456</b>	<b>0.1157</b>		<b>1,970.9390</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6739	14.2261	17.8738	0.0269		0.4518	0.4518		0.4518	0.4518	0.0000	2,650.9797	2,650.9797	0.6531		2,667.3078
<b>Total</b>	<b>0.6739</b>	<b>14.2261</b>	<b>17.8738</b>	<b>0.0269</b>		<b>0.4518</b>	<b>0.4518</b>		<b>0.4518</b>	<b>0.4518</b>	<b>0.0000</b>	<b>2,650.9797</b>	<b>2,650.9797</b>	<b>0.6531</b>		<b>2,667.3078</b>

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**3.4 Building Construction - 2017**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2732	5.3830	2.0493	8.5000e-003	0.1995	0.0599	0.2594	0.0575	0.0574	0.1148		899.7995	899.7995	0.0660		901.4487
Worker	0.7525	0.6730	5.8123	0.0108	1.0974	7.9000e-003	1.1053	0.2910	7.3200e-003	0.2984		1,068.2461	1,068.2461	0.0498		1,069.4903
<b>Total</b>	<b>1.0257</b>	<b>6.0560</b>	<b>7.8616</b>	<b>0.0193</b>	<b>1.2969</b>	<b>0.0678</b>	<b>1.3647</b>	<b>0.3485</b>	<b>0.0647</b>	<b>0.4132</b>		<b>1,968.0456</b>	<b>1,968.0456</b>	<b>0.1157</b>		<b>1,970.9390</b>

**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										lb/day					
Off-Road	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099		2,620.9351	2,620.9351	0.6421		2,636.9883
<b>Total</b>	<b>2.6795</b>	<b>23.3900</b>	<b>17.5804</b>	<b>0.0269</b>		<b>1.4999</b>	<b>1.4999</b>		<b>1.4099</b>	<b>1.4099</b>		<b>2,620.9351</b>	<b>2,620.9351</b>	<b>0.6421</b>		<b>2,636.9883</b>

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**3.4 Building Construction - 2018**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2379	5.0900	1.8373	8.4900e-003	0.1995	0.0486	0.2481	0.0575	0.0465	0.1039		900.3348	900.3348	0.0629		901.9066
Worker	0.6598	0.5831	4.9891	0.0105	1.0974	7.5000e-003	1.1049	0.2910	6.9400e-003	0.2980		1,039.2835	1,039.2835	0.0431		1,040.3619
<b>Total</b>	<b>0.8976</b>	<b>5.6731</b>	<b>6.8264</b>	<b>0.0190</b>	<b>1.2969</b>	<b>0.0561</b>	<b>1.3529</b>	<b>0.3485</b>	<b>0.0534</b>	<b>0.4019</b>		<b>1,939.6183</b>	<b>1,939.6183</b>	<b>0.1060</b>		<b>1,942.2685</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6739	14.2261	17.8738	0.0269		0.4518	0.4518		0.4518	0.4518	0.0000	2,620.9351	2,620.9351	0.6421		2,636.9883
<b>Total</b>	<b>0.6739</b>	<b>14.2261</b>	<b>17.8738</b>	<b>0.0269</b>		<b>0.4518</b>	<b>0.4518</b>		<b>0.4518</b>	<b>0.4518</b>	<b>0.0000</b>	<b>2,620.9351</b>	<b>2,620.9351</b>	<b>0.6421</b>		<b>2,636.9883</b>

Mitigated - San Luis Ranch Project - 2017 Start - San Luis Obispo County APCD Air District, Winter

**3.4 Building Construction - 2018**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2379	5.0900	1.8373	8.4900e-003	0.1995	0.0486	0.2481	0.0575	0.0465	0.1039		900.3348	900.3348	0.0629		901.9066
Worker	0.6598	0.5831	4.9891	0.0105	1.0974	7.5000e-003	1.1049	0.2910	6.9400e-003	0.2980		1,039.2835	1,039.2835	0.0431		1,040.3619
<b>Total</b>	<b>0.8976</b>	<b>5.6731</b>	<b>6.8264</b>	<b>0.0190</b>	<b>1.2969</b>	<b>0.0561</b>	<b>1.3529</b>	<b>0.3485</b>	<b>0.0534</b>	<b>0.4019</b>		<b>1,939.6183</b>	<b>1,939.6183</b>	<b>0.1060</b>		<b>1,942.2685</b>

**3.5 Architectural Coating - 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										lb/day					
Archit. Coating	8.1448					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3323	2.1850	1.8681	2.9700e-003		0.1733	0.1733		0.1733	0.1733		281.4481	281.4481	0.0297		282.1909
<b>Total</b>	<b>8.4771</b>	<b>2.1850</b>	<b>1.8681</b>	<b>2.9700e-003</b>		<b>0.1733</b>	<b>0.1733</b>		<b>0.1733</b>	<b>0.1733</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0297</b>		<b>282.1909</b>

Mitigated - San Luis Ranch Project - 2017 Start - San Luis Obispo County APCD Air District, Winter

**3.5 Architectural Coating - 2017**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1492	0.1334	1.1520	2.1300e-003	0.2175	1.5700e-003	0.2191	0.0577	1.4500e-003	0.0591		211.7245	211.7245	9.8600e-003		211.9710
<b>Total</b>	<b>0.1492</b>	<b>0.1334</b>	<b>1.1520</b>	<b>2.1300e-003</b>	<b>0.2175</b>	<b>1.5700e-003</b>	<b>0.2191</b>	<b>0.0577</b>	<b>1.4500e-003</b>	<b>0.0591</b>		<b>211.7245</b>	<b>211.7245</b>	<b>9.8600e-003</b>		<b>211.9710</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	8.1448					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0594	1.3570	1.8324	2.9700e-003		0.0475	0.0475		0.0475	0.0475	0.0000	281.4481	281.4481	0.0297		282.1909
<b>Total</b>	<b>8.2043</b>	<b>1.3570</b>	<b>1.8324</b>	<b>2.9700e-003</b>		<b>0.0475</b>	<b>0.0475</b>		<b>0.0475</b>	<b>0.0475</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0297</b>		<b>282.1909</b>



Mitigated - San Luis Ranch Project - 2017 Start - San Luis Obispo County APCD Air District, Winter

**3.5 Architectural Coating - 2017**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1492	0.1334	1.1520	2.1300e-003	0.2175	1.5700e-003	0.2191	0.0577	1.4500e-003	0.0591		211.7245	211.7245	9.8600e-003		211.9710
<b>Total</b>	<b>0.1492</b>	<b>0.1334</b>	<b>1.1520</b>	<b>2.1300e-003</b>	<b>0.2175</b>	<b>1.5700e-003</b>	<b>0.2191</b>	<b>0.0577</b>	<b>1.4500e-003</b>	<b>0.0591</b>		<b>211.7245</b>	<b>211.7245</b>	<b>9.8600e-003</b>		<b>211.9710</b>

**3.5 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	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	8.1448					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2986	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506		281.4485	281.4485	0.0267		282.1171
<b>Total</b>	<b>8.4435</b>	<b>2.0058</b>	<b>1.8542</b>	<b>2.9700e-003</b>		<b>0.1506</b>	<b>0.1506</b>		<b>0.1506</b>	<b>0.1506</b>		<b>281.4485</b>	<b>281.4485</b>	<b>0.0267</b>		<b>282.1171</b>

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**3.5 Architectural Coating - 2018**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1308	0.1156	0.9888	2.0700e-003	0.2175	1.4900e-003	0.2190	0.0577	1.3700e-003	0.0591		205.9841	205.9841	8.5500e-003		206.1979
<b>Total</b>	<b>0.1308</b>	<b>0.1156</b>	<b>0.9888</b>	<b>2.0700e-003</b>	<b>0.2175</b>	<b>1.4900e-003</b>	<b>0.2190</b>	<b>0.0577</b>	<b>1.3700e-003</b>	<b>0.0591</b>		<b>205.9841</b>	<b>205.9841</b>	<b>8.5500e-003</b>		<b>206.1979</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	8.1448					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0594	1.3570	1.8324	2.9700e-003		0.0475	0.0475		0.0475	0.0475	0.0000	281.4485	281.4485	0.0267		282.1171
<b>Total</b>	<b>8.2043</b>	<b>1.3570</b>	<b>1.8324</b>	<b>2.9700e-003</b>		<b>0.0475</b>	<b>0.0475</b>		<b>0.0475</b>	<b>0.0475</b>	<b>0.0000</b>	<b>281.4485</b>	<b>281.4485</b>	<b>0.0267</b>		<b>282.1171</b>

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**3.5 Architectural Coating - 2018**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1308	0.1156	0.9888	2.0700e-003	0.2175	1.4900e-003	0.2190	0.0577	1.3700e-003	0.0591		205.9841	205.9841	8.5500e-003		206.1979
<b>Total</b>	<b>0.1308</b>	<b>0.1156</b>	<b>0.9888</b>	<b>2.0700e-003</b>	<b>0.2175</b>	<b>1.4900e-003</b>	<b>0.2190</b>	<b>0.0577</b>	<b>1.3700e-003</b>	<b>0.0591</b>		<b>205.9841</b>	<b>205.9841</b>	<b>8.5500e-003</b>		<b>206.1979</b>

**3.6 Paving - 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										lb/day					
Off-Road	1.6437	17.5209	14.7964	0.0228		0.9561	0.9561		0.8797	0.8797		2,294.0887	2,294.0887	0.7142		2,311.9432
Paving	0.4624					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>2.1061</b>	<b>17.5209</b>	<b>14.7964</b>	<b>0.0228</b>		<b>0.9561</b>	<b>0.9561</b>		<b>0.8797</b>	<b>0.8797</b>		<b>2,294.0887</b>	<b>2,294.0887</b>	<b>0.7142</b>		<b>2,311.9432</b>

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**3.6 Paving - 2018**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0892	0.0788	0.6742	1.4100e-003	0.1483	1.0100e-003	0.1493	0.0393	9.4000e-004	0.0403		140.4437	140.4437	5.8300e-003		140.5895
<b>Total</b>	<b>0.0892</b>	<b>0.0788</b>	<b>0.6742</b>	<b>1.4100e-003</b>	<b>0.1483</b>	<b>1.0100e-003</b>	<b>0.1493</b>	<b>0.0393</b>	<b>9.4000e-004</b>	<b>0.0403</b>		<b>140.4437</b>	<b>140.4437</b>	<b>5.8300e-003</b>		<b>140.5895</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5609	11.2952	17.2957	0.0228		0.3047	0.3047		0.3047	0.3047	0.0000	2,294.0887	2,294.0887	0.7142		2,311.9432
Paving	0.4624					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.0234</b>	<b>11.2952</b>	<b>17.2957</b>	<b>0.0228</b>		<b>0.3047</b>	<b>0.3047</b>		<b>0.3047</b>	<b>0.3047</b>	<b>0.0000</b>	<b>2,294.0887</b>	<b>2,294.0887</b>	<b>0.7142</b>		<b>2,311.9432</b>

Mitigated - San Luis Ranch Project - 2017 Start - San Luis Obispo County APCD Air District, Winter

**3.6 Paving - 2018**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0892	0.0788	0.6742	1.4100e-003	0.1483	1.0100e-003	0.1493	0.0393	9.4000e-004	0.0403		140.4437	140.4437	5.8300e-003		140.5895
<b>Total</b>	<b>0.0892</b>	<b>0.0788</b>	<b>0.6742</b>	<b>1.4100e-003</b>	<b>0.1483</b>	<b>1.0100e-003</b>	<b>0.1493</b>	<b>0.0393</b>	<b>9.4000e-004</b>	<b>0.0403</b>		<b>140.4437</b>	<b>140.4437</b>	<b>5.8300e-003</b>		<b>140.5895</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

Mitigated - San Luis Ranch Project - 2017 Start - San Luis Obispo County APCD Air District, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	2.0317	7.8849	21.7107	0.0475	4.0423	0.0724	4.1148	1.0808	0.0684	1.1492		4,782.0197	4,782.0197	0.2373		4,787.9522
Unmitigated	2.0317	7.8849	21.7107	0.0475	4.0423	0.0724	4.1148	1.0808	0.0684	1.1492		4,782.0197	4,782.0197	0.2373		4,787.9522

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Regional Shopping Center	443.50	519.00	262.00	618,505	618,505
Single Family Housing	437.74	454.94	396.46	1,103,798	1,103,798
Total	881.24	973.94	658.46	1,722,303	1,722,303

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
Parking Lot	13.00	5.00	5.00	0.00	0.00	0.00	0	0	0
Parking Lot	13.00	5.00	5.00	0.00	0.00	0.00	0	0	0
Parking Lot	13.00	5.00	5.00	0.00	0.00	0.00	0	0	0
Regional Shopping Center	13.00	5.00	5.00	16.30	64.70	19.00	54	35	11
Single Family Housing	13.00	5.00	5.00	35.80	21.00	43.20	86	11	3

Mitigated - San Luis Ranch Project - 2017 Start - San Luis Obispo County APCD Air District, Winter

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Parking Lot	0.549382	0.034064	0.198767	0.132360	0.033447	0.007872	0.013134	0.018943	0.002404	0.001320	0.005630	0.000825	0.001852
Parking Lot	0.549382	0.034064	0.198767	0.132360	0.033447	0.007872	0.013134	0.018943	0.002404	0.001320	0.005630	0.000825	0.001852
Parking Lot	0.549382	0.034064	0.198767	0.132360	0.033447	0.007872	0.013134	0.018943	0.002404	0.001320	0.005630	0.000825	0.001852
Single Family Housing	0.549382	0.034064	0.198767	0.132360	0.033447	0.007872	0.013134	0.018943	0.002404	0.001320	0.005630	0.000825	0.001852
Regional Shopping Center	0.549382	0.034064	0.198767	0.132360	0.033447	0.007872	0.013134	0.018943	0.002404	0.001320	0.005630	0.000825	0.001852

**5.0 Energy Detail**

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	0.0775	0.6638	0.2931	4.2300e-003		0.0536	0.0536		0.0536	0.0536		845.4484	845.4484	0.0162	0.0155	850.4724
NaturalGas Unmitigated	0.0949	0.8126	0.3591	5.1700e-003		0.0656	0.0656		0.0656	0.0656		1,034.9466	1,034.9466	0.0198	0.0190	1,041.0968

Mitigated - San Luis Ranch Project - 2017 Start - San Luis Obispo County APCD Air District, Winter

**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					
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	326.027	3.5200e-003	0.0320	0.0269	1.9000e-004		2.4300e-003	2.4300e-003		2.4300e-003	2.4300e-003		38.3562	38.3562	7.4000e-004	7.0000e-004	38.5841
Single Family Housing	8471.02	0.0914	0.7807	0.3322	4.9800e-003		0.0631	0.0631		0.0631	0.0631		996.5905	996.5905	0.0191	0.0183	1,002.5127
<b>Total</b>		<b>0.0949</b>	<b>0.8126</b>	<b>0.3591</b>	<b>5.1700e-003</b>		<b>0.0656</b>	<b>0.0656</b>		<b>0.0656</b>	<b>0.0656</b>		<b>1,034.9466</b>	<b>1,034.9466</b>	<b>0.0198</b>	<b>0.0190</b>	<b>1,041.0968</b>

**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					
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	0.260822	2.8100e-003	0.0256	0.0215	1.5000e-004		1.9400e-003	1.9400e-003		1.9400e-003	1.9400e-003		30.6849	30.6849	5.9000e-004	5.6000e-004	30.8673
Single Family Housing	6.92549	0.0747	0.6382	0.2716	4.0700e-003		0.0516	0.0516		0.0516	0.0516		814.7634	814.7634	0.0156	0.0149	819.6052
<b>Total</b>		<b>0.0775</b>	<b>0.6638</b>	<b>0.2931</b>	<b>4.2200e-003</b>		<b>0.0535</b>	<b>0.0535</b>		<b>0.0535</b>	<b>0.0535</b>		<b>845.4484</b>	<b>845.4484</b>	<b>0.0162</b>	<b>0.0155</b>	<b>850.4724</b>

**6.0 Area Detail**



Mitigated - San Luis Ranch Project - 2017 Start - San Luis Obispo County APCD Air District, Winter

**6.1 Mitigation Measures Area**

No Hearths Installed

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	6.3178	0.0826	7.1358	3.8000e-004		0.0391	0.0391		0.0391	0.0391	0.0000	12.7872	12.7872	0.0126	0.0000	13.1015
Unmitigated	6.3178	0.0826	7.1358	3.8000e-004		0.0391	0.0391		0.0391	0.0391	0.0000	12.7872	12.7872	0.0126	0.0000	13.1015

Mitigated - San Luis Ranch Project - 2017 Start - San Luis Obispo County APCD Air District, Winter

**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	1.6619					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	4.4371					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.2188	0.0826	7.1358	3.8000e-004		0.0391	0.0391		0.0391	0.0391		12.7872	12.7872	0.0126		13.1015
<b>Total</b>	<b>6.3178</b>	<b>0.0826</b>	<b>7.1358</b>	<b>3.8000e-004</b>		<b>0.0391</b>	<b>0.0391</b>		<b>0.0391</b>	<b>0.0391</b>	<b>0.0000</b>	<b>12.7872</b>	<b>12.7872</b>	<b>0.0126</b>	<b>0.0000</b>	<b>13.1015</b>

Mitigated - San Luis Ranch Project - 2017 Start - San Luis Obispo County APCD Air District, Winter

**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	1.6619					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	4.4371					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.2188	0.0826	7.1358	3.8000e-004		0.0391	0.0391		0.0391	0.0391		12.7872	12.7872	0.0126		13.1015
<b>Total</b>	<b>6.3178</b>	<b>0.0826</b>	<b>7.1358</b>	<b>3.8000e-004</b>		<b>0.0391</b>	<b>0.0391</b>		<b>0.0391</b>	<b>0.0391</b>	<b>0.0000</b>	<b>12.7872</b>	<b>12.7872</b>	<b>0.0126</b>	<b>0.0000</b>	<b>13.1015</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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

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Mitigated - San Luis Ranch Project - 2017 Start - San Luis Obispo County APCD Air District, Winter

**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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**11.0 Vegetation**

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Mitigated - San Luis Ranch Project - 2017 Start - San Luis Obispo County APCD Air District, Summary Report

**Mitigated - San Luis Ranch Project - 2017 Start**  
**San Luis Obispo County APCD, Summary Report**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	1.23	Acre	1.23	53,361.00	0
Parking Lot	1.00	Acre	1.00	43,560.00	0
Parking Lot	1.30	Acre	1.30	56,628.00	0
Single Family Housing	86.00	Dwelling Unit	8.00	154,800.00	246
Regional Shopping Center	50.00	1000sqft	1.15	50,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	3.2	<b>Precipitation Freq (Days)</b>	44
<b>Climate Zone</b>	4			<b>Operational Year</b>	2019
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	641.35	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

**1.3 User Entered Comments**

Only CalEEMod defaults were used.

Mitigated - San Luis Ranch Project - 2017 Start - San Luis Obispo County APCD Air District, Summary Report

Project Characteristics -

Land Use - Land use values from buildout and phasing in Specific Plan Section 7.7. Includes portions of Phases 1, 2, and 6, and improvements to Froom Ext and Madonna Rd

Construction Phase - No demolition in phases 1, 2, and 6. AC expected to overlap with half of building construction as painting would occur as buildings are finished.

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Grading - Total import proportionally distributed by phase acreage.

Vehicle Trips - Trip generation rate based on Omni-Means 2016 Traffic Impact Study.

Mobile Land Use Mitigation - Trip reductions from project's density, diversity, and access to alternative transportation accounted for in trip generation rates.

Energy Mitigation - Per Specific Plan, appliances will be energy efficient. Per MM AQ-3 Exceed Title 24

Water Mitigation -

Architectural Coating - Per MM AQ-2

Woodstoves - Per MM AQ-3

Construction Off-road Equipment Mitigation - Per MM AQ-2

Area Mitigation - Per MM AQ-3

## **2.0 Peak Daily Emissions**

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### **Peak Daily Construction Emissions**

#### **Peak Daily Construction Emissions**







Mitigated - San Luis Ranch Project - 2018 Start - San Luis Obispo County APCD Air District, Annual

**Mitigated - San Luis Ranch Project - 2018 Start**  
**San Luis Obispo County APCD Air District, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	25.00	1000sqft	0.63	25,000.00	0
Parking Lot	2.10	Acre	2.10	91,476.00	0
Parking Lot	1.23	Acre	1.23	53,361.00	0
Hotel	200.00	Room	3.50	290,400.00	0
Single Family Housing	196.00	Dwelling Unit	15.00	352,800.00	561
Regional Shopping Center	50.00	1000sqft	1.15	50,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	3.2	<b>Precipitation Freq (Days)</b>	44
<b>Climate Zone</b>	4			<b>Operational Year</b>	2020
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MW hr)</b>	641.35	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

**1.3 User Entered Comments & Non-Default Data**

Mitigated - San Luis Ranch Project - 2018 Start - San Luis Obispo County APCD Air District, Annual

Project Characteristics -

Land Use - Land use values from buildout and phasing in Specific Plan Section 7.7. Includes portions of Phases 1, 2, 4, 5, and 6.

Construction Phase - No demolition in phases 1, 2, 4, 5 and 6. AC expected to overlap with half of building construction as painting would occur as buildings are finished.

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Demolition -

Grading - Total import proportionally distributed by phase acreage.

Architectural Coating - Per MM AQ-2

Vehicle Trips - Trip generation rate based on Omni-Means 2016 Traffic Impact Study.

Woodstoves - Per MM AQ-3

Construction Off-road Equipment Mitigation - Per MM AQ-2

Mobile Land Use Mitigation - Trip reductions from project's density, diversity, and access to alternative transportation accounted for in trip generation rates.

Area Mitigation - Per MM AQ-3

Energy Mitigation - Per Specific Plan, appliances will be energy efficient. Exceed Title 24 per MM AQ-3

Water Mitigation -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	50.00
tblArchitecturalCoating	EF_Parking	150.00	50.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	50.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	50.00
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	0
tblConstEquipMitigation	DPF	No Change	Level 2
tblConstEquipMitigation	DPF	No Change	Level 2
tblConstEquipMitigation	DPF	No Change	Level 2

Mitigated - San Luis Ranch Project - 2018 Start - San Luis Obispo County APCD Air District, Annual

tblConstEquipMitigation	DPF	No Change	Level 2
tblConstEquipMitigation	DPF	No Change	Level 2
tblConstEquipMitigation	DPF	No Change	Level 2
tblConstEquipMitigation	DPF	No Change	Level 2
tblConstEquipMitigation	DPF	No Change	Level 2
tblConstEquipMitigation	DPF	No Change	Level 2
tblConstEquipMitigation	DPF	No Change	Level 2
tblConstEquipMitigation	DPF	No Change	Level 2
tblConstEquipMitigation	DPF	No Change	Level 2
tblConstEquipMitigation	DPF	No Change	Level 2
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3

Mitigated - San Luis Ranch Project - 2018 Start - San Luis Obispo County APCD Air District, Annual

tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	20.00	185.00
tblFleetMix	FleetMixLandUseSubType	Parking Lot	Hotel
tblFleetMix	FleetMixLandUseSubType	Hotel	Parking Lot
tblFleetMix	FleetMixLandUseSubType	Single Family Housing	Regional Shopping Center
tblFleetMix	FleetMixLandUseSubType	Regional Shopping Center	Single Family Housing
tblGrading	MaterialImported	0.00	91,760.00
tblLandUse	BuildingSpaceSquareFeet	53,578.80	53,361.00
tblLandUse	LandUseSquareFeet	53,578.80	53,361.00
tblLandUse	LotAcreage	0.57	0.63
tblLandUse	LotAcreage	6.67	3.50
tblLandUse	LotAcreage	63.64	15.00
tblProjectCharacteristics	OperationalYear	2018	2020
tblVehicleTrips	ST_TR	2.46	2.68
tblVehicleTrips	ST_TR	8.19	4.86
tblVehicleTrips	ST_TR	49.97	10.38
tblVehicleTrips	ST_TR	9.91	5.29
tblVehicleTrips	SU_TR	1.05	1.14
tblVehicleTrips	SU_TR	5.95	3.53

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tblVehicleTrips	SU_TR	25.24	5.24
tblVehicleTrips	SU_TR	8.62	4.61
tblVehicleTrips	WD_TR	11.03	12.00
tblVehicleTrips	WD_TR	8.17	4.85
tblVehicleTrips	WD_TR	42.70	8.87
tblVehicleTrips	WD_TR	9.52	5.09
tblWoodstoves	WoodstoveDayYear	60.00	0.00
tblWoodstoves	WoodstoveWoodMass	2,016.00	0.00

## 2.0 Emissions Summary

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Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-1-2018	3-31-2018	3.6164	2.8357
2	4-1-2018	6-30-2018	1.3589	0.9959
3	7-1-2018	9-30-2018	1.6143	1.2384
4	10-1-2018	12-31-2018	2.1783	1.7822
5	1-1-2019	3-31-2019	2.0044	1.7079
6	4-1-2019	6-30-2019	0.8310	0.7132
		Highest	3.6164	2.8357

**2.2 Overall Operational**  
**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	3.8746	0.0310	2.6817	1.4000e-004		0.0147	0.0147		0.0147	0.0147	0.0000	4.3674	4.3674	4.2700e-003	0.0000	4.4743
Energy	0.1106	0.9843	0.6922	6.0300e-003		0.0764	0.0764		0.0764	0.0764	0.0000	2,573.8997	2,573.8997	0.0879	0.0339	2,586.1997
Mobile	0.8673	3.4948	9.3349	0.0228	1.9378	0.0289	1.9667	0.5191	0.0273	0.5463	0.0000	2,086.4176	2,086.4176	0.0942	0.0000	2,088.7734
Waste						0.0000	0.0000		0.0000	0.0000	84.2940	0.0000	84.2940	4.9816	0.0000	208.8349
Water						0.0000	0.0000		0.0000	0.0000	8.2456	54.7676	63.0131	0.8494	0.0205	90.3594
<b>Total</b>	<b>4.8525</b>	<b>4.5102</b>	<b>12.7088</b>	<b>0.0290</b>	<b>1.9378</b>	<b>0.1200</b>	<b>2.0578</b>	<b>0.5191</b>	<b>0.1184</b>	<b>0.6374</b>	<b>92.5396</b>	<b>4,719.4522</b>	<b>4,811.9918</b>	<b>6.0174</b>	<b>0.0544</b>	<b>4,978.6416</b>

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**2.2 Overall Operational**

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	3.8746	0.0310	2.6817	1.4000e-004		0.0147	0.0147		0.0147	0.0147	0.0000	4.3674	4.3674	4.2700e-003	0.0000	4.4743
Energy	0.0906	0.8067	0.5676	4.9400e-003		0.0626	0.0626		0.0626	0.0626	0.0000	2,308.5818	2,308.5818	0.0810	0.0297	2,319.4424
Mobile	0.8673	3.4948	9.3349	0.0228	1.9378	0.0289	1.9667	0.5191	0.0273	0.5463	0.0000	2,086.4176	2,086.4176	0.0942	0.0000	2,088.7734
Waste						0.0000	0.0000		0.0000	0.0000	84.2940	0.0000	84.2940	4.9816	0.0000	208.8349
Water						0.0000	0.0000		0.0000	0.0000	8.2456	54.7676	63.0131	0.8494	0.0205	90.3594
<b>Total</b>	<b>4.8325</b>	<b>4.3325</b>	<b>12.5842</b>	<b>0.0279</b>	<b>1.9378</b>	<b>0.1063</b>	<b>2.0440</b>	<b>0.5191</b>	<b>0.1046</b>	<b>0.6236</b>	<b>92.5396</b>	<b>4,454.1343</b>	<b>4,546.6739</b>	<b>6.0105</b>	<b>0.0502</b>	<b>4,711.8844</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
<b>Percent Reduction</b>	<b>0.41</b>	<b>3.94</b>	<b>0.98</b>	<b>3.76</b>	<b>0.00</b>	<b>11.48</b>	<b>0.67</b>	<b>0.00</b>	<b>11.64</b>	<b>2.16</b>	<b>0.00</b>	<b>5.62</b>	<b>5.51</b>	<b>0.11</b>	<b>7.81</b>	<b>5.36</b>

**3.0 Construction Detail**

**Construction Phase**



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Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/1/2018	1/12/2018	5	10	
2	Grading	Grading	1/13/2018	2/23/2018	5	35	
3	Building Construction	Building Construction	2/24/2018	4/19/2019	5	370	
4	Architectural Coating	Architectural Coating	9/3/2018	5/17/2019	5	185	
5	Paving	Paving	4/20/2019	5/17/2019	5	20	

**Acres of Grading (Site Preparation Phase): 0**

**Acres of Grading (Grading Phase): 87.5**

**Acres of Paving: 3.33**

**Residential Indoor: 714,420; Residential Outdoor: 238,140; Non-Residential Indoor: 548,100; Non-Residential Outdoor: 182,700; Striped Parking Area: 8,690 (Architectural Coating – sqft)**

**OffRoad Equipment**

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Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38

**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
Site Preparation	7	18.00	0.00	0.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	11,470.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	277.00	105.00	0.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	55.00	0.00	0.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

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Use Cleaner Engines for Construction Equipment

Use DPF for Construction Equipment

**3.2 Site Preparation - 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	tons/yr										MT/yr					
Fugitive Dust					0.0903	0.0000	0.0903	0.0497	0.0000	0.0497	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0228	0.2410	0.1124	1.9000e-004		0.0129	0.0129		0.0119	0.0119	0.0000	17.3800	17.3800	5.4100e-003	0.0000	17.5152
<b>Total</b>	<b>0.0228</b>	<b>0.2410</b>	<b>0.1124</b>	<b>1.9000e-004</b>	<b>0.0903</b>	<b>0.0129</b>	<b>0.1032</b>	<b>0.0497</b>	<b>0.0119</b>	<b>0.0615</b>	<b>0.0000</b>	<b>17.3800</b>	<b>17.3800</b>	<b>5.4100e-003</b>	<b>0.0000</b>	<b>17.5152</b>

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**3.2 Site Preparation - 2018**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.8000e-004	4.6000e-004	4.0100e-003	1.0000e-005	8.7000e-004	1.0000e-005	8.7000e-004	2.3000e-004	1.0000e-005	2.4000e-004	0.0000	0.7707	0.7707	3.0000e-005	0.0000	0.7715
<b>Total</b>	<b>4.8000e-004</b>	<b>4.6000e-004</b>	<b>4.0100e-003</b>	<b>1.0000e-005</b>	<b>8.7000e-004</b>	<b>1.0000e-005</b>	<b>8.7000e-004</b>	<b>2.3000e-004</b>	<b>1.0000e-005</b>	<b>2.4000e-004</b>	<b>0.0000</b>	<b>0.7707</b>	<b>0.7707</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.7715</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0903	0.0000	0.0903	0.0497	0.0000	0.0497	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.6600e-003	0.0953	0.1148	1.9000e-004		2.3700e-003	2.3700e-003		2.3700e-003	2.3700e-003	0.0000	17.3799	17.3799	5.4100e-003	0.0000	17.5152
<b>Total</b>	<b>4.6600e-003</b>	<b>0.0953</b>	<b>0.1148</b>	<b>1.9000e-004</b>	<b>0.0903</b>	<b>2.3700e-003</b>	<b>0.0927</b>	<b>0.0497</b>	<b>2.3700e-003</b>	<b>0.0520</b>	<b>0.0000</b>	<b>17.3799</b>	<b>17.3799</b>	<b>5.4100e-003</b>	<b>0.0000</b>	<b>17.5152</b>

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**3.2 Site Preparation - 2018**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.8000e-004	4.6000e-004	4.0100e-003	1.0000e-005	8.7000e-004	1.0000e-005	8.7000e-004	2.3000e-004	1.0000e-005	2.4000e-004	0.0000	0.7707	0.7707	3.0000e-005	0.0000	0.7715
<b>Total</b>	<b>4.8000e-004</b>	<b>4.6000e-004</b>	<b>4.0100e-003</b>	<b>1.0000e-005</b>	<b>8.7000e-004</b>	<b>1.0000e-005</b>	<b>8.7000e-004</b>	<b>2.3000e-004</b>	<b>1.0000e-005</b>	<b>2.4000e-004</b>	<b>0.0000</b>	<b>0.7707</b>	<b>0.7707</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.7715</b>

**3.3 Grading - 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	tons/yr										MT/yr					
Fugitive Dust					0.1373	0.0000	0.1373	0.0550	0.0000	0.0550	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0764	0.8928	0.5263	9.3000e-004		0.0395	0.0395		0.0364	0.0364	0.0000	84.9728	84.9728	0.0265	0.0000	85.6341
<b>Total</b>	<b>0.0764</b>	<b>0.8928</b>	<b>0.5263</b>	<b>9.3000e-004</b>	<b>0.1373</b>	<b>0.0395</b>	<b>0.1769</b>	<b>0.0550</b>	<b>0.0364</b>	<b>0.0914</b>	<b>0.0000</b>	<b>84.9728</b>	<b>84.9728</b>	<b>0.0265</b>	<b>0.0000</b>	<b>85.6341</b>

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**3.3 Grading - 2018**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0582	1.8377	0.4158	3.9500e-003	0.0943	0.0134	0.1076	0.0256	0.0128	0.0384	0.0000	384.8026	384.8026	0.0216	0.0000	385.3436
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	1.6100e-003	1.5500e-003	0.0134	3.0000e-005	2.8900e-003	2.0000e-005	2.9100e-003	7.7000e-004	2.0000e-005	7.9000e-004	0.0000	2.5689	2.5689	1.1000e-004	0.0000	2.5715
<b>Total</b>	<b>0.0598</b>	<b>1.8393</b>	<b>0.4292</b>	<b>3.9800e-003</b>	<b>0.0972</b>	<b>0.0134</b>	<b>0.1105</b>	<b>0.0263</b>	<b>0.0128</b>	<b>0.0391</b>	<b>0.0000</b>	<b>387.3714</b>	<b>387.3714</b>	<b>0.0218</b>	<b>0.0000</b>	<b>387.9151</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1373	0.0000	0.1373	0.0550	0.0000	0.0550	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0229	0.4497	0.5508	9.3000e-004		9.7500e-003	9.7500e-003		9.7500e-003	9.7500e-003	0.0000	84.9727	84.9727	0.0265	0.0000	85.6340
<b>Total</b>	<b>0.0229</b>	<b>0.4497</b>	<b>0.5508</b>	<b>9.3000e-004</b>	<b>0.1373</b>	<b>9.7500e-003</b>	<b>0.1471</b>	<b>0.0550</b>	<b>9.7500e-003</b>	<b>0.0648</b>	<b>0.0000</b>	<b>84.9727</b>	<b>84.9727</b>	<b>0.0265</b>	<b>0.0000</b>	<b>85.6340</b>

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**3.3 Grading - 2018**

**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	0.0582	1.8377	0.4158	3.9500e-003	0.0943	0.0134	0.1076	0.0256	0.0128	0.0384	0.0000	384.8026	384.8026	0.0216	0.0000	385.3436
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	1.6100e-003	1.5500e-003	0.0134	3.0000e-005	2.8900e-003	2.0000e-005	2.9100e-003	7.7000e-004	2.0000e-005	7.9000e-004	0.0000	2.5689	2.5689	1.1000e-004	0.0000	2.5715
<b>Total</b>	<b>0.0598</b>	<b>1.8393</b>	<b>0.4292</b>	<b>3.9800e-003</b>	<b>0.0972</b>	<b>0.0134</b>	<b>0.1105</b>	<b>0.0263</b>	<b>0.0128</b>	<b>0.0391</b>	<b>0.0000</b>	<b>387.3714</b>	<b>387.3714</b>	<b>0.0218</b>	<b>0.0000</b>	<b>387.9151</b>

**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	tons/yr										MT/yr					
Off-Road	0.2961	2.5846	1.9426	2.9700e-003		0.1657	0.1657		0.1558	0.1558	0.0000	262.7328	262.7328	0.0644	0.0000	264.3420
<b>Total</b>	<b>0.2961</b>	<b>2.5846</b>	<b>1.9426</b>	<b>2.9700e-003</b>		<b>0.1657</b>	<b>0.1657</b>		<b>0.1558</b>	<b>0.1558</b>	<b>0.0000</b>	<b>262.7328</b>	<b>262.7328</b>	<b>0.0644</b>	<b>0.0000</b>	<b>264.3420</b>

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**3.4 Building Construction - 2018**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0624	1.3921	0.4705	2.3300e-003	0.0527	0.0129	0.0656	0.0152	0.0124	0.0276	0.0000	224.1246	224.1246	0.0149	0.0000	224.4965
Worker	0.1638	0.1578	1.3651	2.9100e-003	0.2947	2.0700e-003	0.2967	0.0783	1.9100e-003	0.0802	0.0000	262.0999	262.0999	0.0108	0.0000	262.3697
<b>Total</b>	<b>0.2262</b>	<b>1.5498</b>	<b>1.8355</b>	<b>5.2400e-003</b>	<b>0.3474</b>	<b>0.0150</b>	<b>0.3623</b>	<b>0.0935</b>	<b>0.0143</b>	<b>0.1078</b>	<b>0.0000</b>	<b>486.2245</b>	<b>486.2245</b>	<b>0.0257</b>	<b>0.0000</b>	<b>486.8662</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0745	1.5720	1.9751	2.9700e-003		0.0499	0.0499		0.0499	0.0499	0.0000	262.7325	262.7325	0.0644	0.0000	264.3417
<b>Total</b>	<b>0.0745</b>	<b>1.5720</b>	<b>1.9751</b>	<b>2.9700e-003</b>		<b>0.0499</b>	<b>0.0499</b>		<b>0.0499</b>	<b>0.0499</b>	<b>0.0000</b>	<b>262.7325</b>	<b>262.7325</b>	<b>0.0644</b>	<b>0.0000</b>	<b>264.3417</b>



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**3.4 Building Construction - 2018**

**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	0.0624	1.3921	0.4705	2.3300e-003	0.0527	0.0129	0.0656	0.0152	0.0124	0.0276	0.0000	224.1246	224.1246	0.0149	0.0000	224.4965
Worker	0.1638	0.1578	1.3651	2.9100e-003	0.2947	2.0700e-003	0.2967	0.0783	1.9100e-003	0.0802	0.0000	262.0999	262.0999	0.0108	0.0000	262.3697
<b>Total</b>	<b>0.2262</b>	<b>1.5498</b>	<b>1.8355</b>	<b>5.2400e-003</b>	<b>0.3474</b>	<b>0.0150</b>	<b>0.3623</b>	<b>0.0935</b>	<b>0.0143</b>	<b>0.1078</b>	<b>0.0000</b>	<b>486.2245</b>	<b>486.2245</b>	<b>0.0257</b>	<b>0.0000</b>	<b>486.8662</b>

**3.4 Building Construction - 2019**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0933	0.8326	0.6780	1.0600e-003		0.0510	0.0510		0.0479	0.0479	0.0000	92.8662	92.8662	0.0226	0.0000	93.4317
<b>Total</b>	<b>0.0933</b>	<b>0.8326</b>	<b>0.6780</b>	<b>1.0600e-003</b>		<b>0.0510</b>	<b>0.0510</b>		<b>0.0479</b>	<b>0.0479</b>	<b>0.0000</b>	<b>92.8662</b>	<b>92.8662</b>	<b>0.0226</b>	<b>0.0000</b>	<b>93.4317</b>

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**3.4 Building Construction - 2019**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0194	0.4731	0.1484	8.3000e-004	0.0188	3.7900e-003	0.0226	5.4400e-003	3.6200e-003	9.0600e-003	0.0000	79.9025	79.9025	5.1300e-003	0.0000	80.0308
Worker	0.0526	0.0494	0.4276	1.0100e-003	0.1053	7.2000e-004	0.1061	0.0280	6.6000e-004	0.0287	0.0000	90.9377	90.9377	3.3900e-003	0.0000	91.0224
<b>Total</b>	<b>0.0720</b>	<b>0.5224</b>	<b>0.5761</b>	<b>1.8400e-003</b>	<b>0.1242</b>	<b>4.5100e-003</b>	<b>0.1287</b>	<b>0.0334</b>	<b>4.2800e-003</b>	<b>0.0377</b>	<b>0.0000</b>	<b>170.8402</b>	<b>170.8402</b>	<b>8.5200e-003</b>	<b>0.0000</b>	<b>171.0532</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0266	0.5619	0.7060	1.0600e-003		0.0179	0.0179		0.0179	0.0179	0.0000	92.8661	92.8661	0.0226	0.0000	93.4316
<b>Total</b>	<b>0.0266</b>	<b>0.5619</b>	<b>0.7060</b>	<b>1.0600e-003</b>		<b>0.0179</b>	<b>0.0179</b>		<b>0.0179</b>	<b>0.0179</b>	<b>0.0000</b>	<b>92.8661</b>	<b>92.8661</b>	<b>0.0226</b>	<b>0.0000</b>	<b>93.4316</b>

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**3.4 Building Construction - 2019**

**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	0.0194	0.4731	0.1484	8.3000e-004	0.0188	3.7900e-003	0.0226	5.4400e-003	3.6200e-003	9.0600e-003	0.0000	79.9025	79.9025	5.1300e-003	0.0000	80.0308
Worker	0.0526	0.0494	0.4276	1.0100e-003	0.1053	7.2000e-004	0.1061	0.0280	6.6000e-004	0.0287	0.0000	90.9377	90.9377	3.3900e-003	0.0000	91.0224
<b>Total</b>	<b>0.0720</b>	<b>0.5224</b>	<b>0.5761</b>	<b>1.8400e-003</b>	<b>0.1242</b>	<b>4.5100e-003</b>	<b>0.1287</b>	<b>0.0334</b>	<b>4.2800e-003</b>	<b>0.0377</b>	<b>0.0000</b>	<b>170.8402</b>	<b>170.8402</b>	<b>8.5200e-003</b>	<b>0.0000</b>	<b>171.0532</b>

**3.5 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	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.9114					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0128	0.0863	0.0797	1.3000e-004		6.4700e-003	6.4700e-003		6.4700e-003	6.4700e-003	0.0000	10.9790	10.9790	1.0400e-003	0.0000	11.0051
<b>Total</b>	<b>0.9243</b>	<b>0.0863</b>	<b>0.0797</b>	<b>1.3000e-004</b>		<b>6.4700e-003</b>	<b>6.4700e-003</b>		<b>6.4700e-003</b>	<b>6.4700e-003</b>	<b>0.0000</b>	<b>10.9790</b>	<b>10.9790</b>	<b>1.0400e-003</b>	<b>0.0000</b>	<b>11.0051</b>

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**3.5 Architectural Coating - 2018**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0127	0.0122	0.1055	2.2000e-004	0.0228	1.6000e-004	0.0229	6.0500e-003	1.5000e-004	6.2000e-003	0.0000	20.2514	20.2514	8.3000e-004	0.0000	20.2723
<b>Total</b>	<b>0.0127</b>	<b>0.0122</b>	<b>0.1055</b>	<b>2.2000e-004</b>	<b>0.0228</b>	<b>1.6000e-004</b>	<b>0.0229</b>	<b>6.0500e-003</b>	<b>1.5000e-004</b>	<b>6.2000e-003</b>	<b>0.0000</b>	<b>20.2514</b>	<b>20.2514</b>	<b>8.3000e-004</b>	<b>0.0000</b>	<b>20.2723</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.9114					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.5600e-003	0.0584	0.0788	1.3000e-004		2.0400e-003	2.0400e-003		2.0400e-003	2.0400e-003	0.0000	10.9790	10.9790	1.0400e-003	0.0000	11.0051
<b>Total</b>	<b>0.9140</b>	<b>0.0584</b>	<b>0.0788</b>	<b>1.3000e-004</b>		<b>2.0400e-003</b>	<b>2.0400e-003</b>		<b>2.0400e-003</b>	<b>2.0400e-003</b>	<b>0.0000</b>	<b>10.9790</b>	<b>10.9790</b>	<b>1.0400e-003</b>	<b>0.0000</b>	<b>11.0051</b>

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**3.5 Architectural Coating - 2018**

**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	0.0127	0.0122	0.1055	2.2000e-004	0.0228	1.6000e-004	0.0229	6.0500e-003	1.5000e-004	6.2000e-003	0.0000	20.2514	20.2514	8.3000e-004	0.0000	20.2723
<b>Total</b>	<b>0.0127</b>	<b>0.0122</b>	<b>0.1055</b>	<b>2.2000e-004</b>	<b>0.0228</b>	<b>1.6000e-004</b>	<b>0.0229</b>	<b>6.0500e-003</b>	<b>1.5000e-004</b>	<b>6.2000e-003</b>	<b>0.0000</b>	<b>20.2514</b>	<b>20.2514</b>	<b>8.3000e-004</b>	<b>0.0000</b>	<b>20.2723</b>

**3.5 Architectural Coating - 2019**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.0492					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0132	0.0909	0.0912	1.5000e-004		6.3700e-003	6.3700e-003		6.3700e-003	6.3700e-003	0.0000	12.6386	12.6386	1.0700e-003	0.0000	12.6653
<b>Total</b>	<b>1.0624</b>	<b>0.0909</b>	<b>0.0912</b>	<b>1.5000e-004</b>		<b>6.3700e-003</b>	<b>6.3700e-003</b>		<b>6.3700e-003</b>	<b>6.3700e-003</b>	<b>0.0000</b>	<b>12.6386</b>	<b>12.6386</b>	<b>1.0700e-003</b>	<b>0.0000</b>	<b>12.6653</b>

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**3.5 Architectural Coating - 2019**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0131	0.0123	0.1064	2.5000e-004	0.0262	1.8000e-004	0.0264	6.9700e-003	1.6000e-004	7.1300e-003	0.0000	22.6274	22.6274	8.4000e-004	0.0000	22.6485
<b>Total</b>	<b>0.0131</b>	<b>0.0123</b>	<b>0.1064</b>	<b>2.5000e-004</b>	<b>0.0262</b>	<b>1.8000e-004</b>	<b>0.0264</b>	<b>6.9700e-003</b>	<b>1.6000e-004</b>	<b>7.1300e-003</b>	<b>0.0000</b>	<b>22.6274</b>	<b>22.6274</b>	<b>8.4000e-004</b>	<b>0.0000</b>	<b>22.6485</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.0492					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.9400e-003	0.0672	0.0907	1.5000e-004		2.3500e-003	2.3500e-003		2.3500e-003	2.3500e-003	0.0000	12.6386	12.6386	1.0700e-003	0.0000	12.6653
<b>Total</b>	<b>1.0522</b>	<b>0.0672</b>	<b>0.0907</b>	<b>1.5000e-004</b>		<b>2.3500e-003</b>	<b>2.3500e-003</b>		<b>2.3500e-003</b>	<b>2.3500e-003</b>	<b>0.0000</b>	<b>12.6386</b>	<b>12.6386</b>	<b>1.0700e-003</b>	<b>0.0000</b>	<b>12.6653</b>

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**3.5 Architectural Coating - 2019**

**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	0.0131	0.0123	0.1064	2.5000e-004	0.0262	1.8000e-004	0.0264	6.9700e-003	1.6000e-004	7.1300e-003	0.0000	22.6274	22.6274	8.4000e-004	0.0000	22.6485
<b>Total</b>	<b>0.0131</b>	<b>0.0123</b>	<b>0.1064</b>	<b>2.5000e-004</b>	<b>0.0262</b>	<b>1.8000e-004</b>	<b>0.0264</b>	<b>6.9700e-003</b>	<b>1.6000e-004</b>	<b>7.1300e-003</b>	<b>0.0000</b>	<b>22.6274</b>	<b>22.6274</b>	<b>8.4000e-004</b>	<b>0.0000</b>	<b>22.6485</b>

**3.6 Paving - 2019**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0145	0.1524	0.1467	2.3000e-004		8.2500e-003	8.2500e-003		7.5900e-003	7.5900e-003	0.0000	20.4752	20.4752	6.4800e-003	0.0000	20.6371
Paving	4.3600e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0189</b>	<b>0.1524</b>	<b>0.1467</b>	<b>2.3000e-004</b>		<b>8.2500e-003</b>	<b>8.2500e-003</b>		<b>7.5900e-003</b>	<b>7.5900e-003</b>	<b>0.0000</b>	<b>20.4752</b>	<b>20.4752</b>	<b>6.4800e-003</b>	<b>0.0000</b>	<b>20.6371</b>

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**3.6 Paving - 2019**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.2000e-004	6.8000e-004	5.8600e-003	1.0000e-005	1.4400e-003	1.0000e-005	1.4500e-003	3.8000e-004	1.0000e-005	3.9000e-004	0.0000	1.2467	1.2467	5.0000e-005	0.0000	1.2479
<b>Total</b>	<b>7.2000e-004</b>	<b>6.8000e-004</b>	<b>5.8600e-003</b>	<b>1.0000e-005</b>	<b>1.4400e-003</b>	<b>1.0000e-005</b>	<b>1.4500e-003</b>	<b>3.8000e-004</b>	<b>1.0000e-005</b>	<b>3.9000e-004</b>	<b>0.0000</b>	<b>1.2467</b>	<b>1.2467</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>1.2479</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	5.6100e-003	0.1130	0.1730	2.3000e-004		3.0500e-003	3.0500e-003		3.0500e-003	3.0500e-003	0.0000	20.4752	20.4752	6.4800e-003	0.0000	20.6371
Paving	4.3600e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>9.9700e-003</b>	<b>0.1130</b>	<b>0.1730</b>	<b>2.3000e-004</b>		<b>3.0500e-003</b>	<b>3.0500e-003</b>		<b>3.0500e-003</b>	<b>3.0500e-003</b>	<b>0.0000</b>	<b>20.4752</b>	<b>20.4752</b>	<b>6.4800e-003</b>	<b>0.0000</b>	<b>20.6371</b>



Mitigated - San Luis Ranch Project - 2018 Start - San Luis Obispo County APCD Air District, Annual

**3.6 Paving - 2019**

**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	7.2000e-004	6.8000e-004	5.8600e-003	1.0000e-005	1.4400e-003	1.0000e-005	1.4500e-003	3.8000e-004	1.0000e-005	3.9000e-004	0.0000	1.2467	1.2467	5.0000e-005	0.0000	1.2479
<b>Total</b>	<b>7.2000e-004</b>	<b>6.8000e-004</b>	<b>5.8600e-003</b>	<b>1.0000e-005</b>	<b>1.4400e-003</b>	<b>1.0000e-005</b>	<b>1.4500e-003</b>	<b>3.8000e-004</b>	<b>1.0000e-005</b>	<b>3.9000e-004</b>	<b>0.0000</b>	<b>1.2467</b>	<b>1.2467</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>1.2479</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

Mitigated - San Luis Ranch Project - 2018 Start - San Luis Obispo County APCD Air District, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.8673	3.4948	9.3349	0.0228	1.9378	0.0289	1.9667	0.5191	0.0273	0.5463	0.0000	2,086.4176	2,086.4176	0.0942	0.0000	2,088.7734
Unmitigated	0.8673	3.4948	9.3349	0.0228	1.9378	0.0289	1.9667	0.5191	0.0273	0.5463	0.0000	2,086.4176	2,086.4176	0.0942	0.0000	2,088.7734

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	300.00	67.00	28.50	518,513	518,513
Hotel	970.00	972.00	706.00	1,502,636	1,502,636
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Regional Shopping Center	443.50	519.00	262.00	618,505	618,505
Single Family Housing	997.64	1,036.84	903.56	2,515,633	2,515,633
Total	2,711.14	2,594.84	1,900.06	5,155,287	5,155,287

4.3 Trip Type Information

Mitigated - San Luis Ranch Project - 2018 Start - San Luis Obispo County APCD Air District, Annual

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
General Office Building	13.00	5.00	5.00	33.00	48.00	19.00	77	19	4
Hotel	13.00	5.00	5.00	19.40	61.60	19.00	58	38	4
Parking Lot	13.00	5.00	5.00	0.00	0.00	0.00	0	0	0
Parking Lot	13.00	5.00	5.00	0.00	0.00	0.00	0	0	0
Regional Shopping Center	13.00	5.00	5.00	16.30	64.70	19.00	54	35	11
Single Family Housing	13.00	5.00	5.00	35.80	21.00	43.20	86	11	3

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	0.559162	0.032279	0.198583	0.128083	0.030808	0.007362	0.013004	0.019140	0.002385	0.001267	0.005421	0.000811	0.001695
Hotel	0.559162	0.032279	0.198583	0.128083	0.030808	0.007362	0.013004	0.019140	0.002385	0.001267	0.005421	0.000811	0.001695
Parking Lot	0.559162	0.032279	0.198583	0.128083	0.030808	0.007362	0.013004	0.019140	0.002385	0.001267	0.005421	0.000811	0.001695
Parking Lot	0.559162	0.032279	0.198583	0.128083	0.030808	0.007362	0.013004	0.019140	0.002385	0.001267	0.005421	0.000811	0.001695
Regional Shopping Center	0.559162	0.032279	0.198583	0.128083	0.030808	0.007362	0.013004	0.019140	0.002385	0.001267	0.005421	0.000811	0.001695
Single Family Housing	0.559162	0.032279	0.198583	0.128083	0.030808	0.007362	0.013004	0.019140	0.002385	0.001267	0.005421	0.000811	0.001695

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

Exceed Title 24

Install Energy Efficient Appliances

Mitigated - San Luis Ranch Project - 2018 Start - San Luis Obispo County APCD Air District, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	1,411.9640	1,411.9640	0.0638	0.0132	1,417.4965
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	1,479.7997	1,479.7997	0.0669	0.0138	1,485.5980
NaturalGas Mitigated	0.0906	0.8067	0.5676	4.9400e-003		0.0626	0.0626		0.0626	0.0626	0.0000	896.6178	896.6178	0.0172	0.0164	901.9460
NaturalGas Unmitigated	0.1106	0.9843	0.6922	6.0300e-003		0.0764	0.0764		0.0764	0.0764	0.0000	1,094.1000	1,094.1000	0.0210	0.0201	1,100.6017

Mitigated - San Luis Ranch Project - 2018 Start - San Luis Obispo County APCD Air District, Annual

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Office Building	411250	2.2200e-003	0.0202	0.0169	1.2000e-004		1.5300e-003	1.5300e-003		1.5300e-003	1.5300e-003	0.0000	21.9459	21.9459	4.2000e-004	4.0000e-004	22.0763
Hotel	1.29257e+007	0.0697	0.6336	0.5322	3.8000e-003		0.0482	0.0482		0.0482	0.0482	0.0000	689.7648	689.7648	0.0132	0.0127	693.8637
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	119000	6.4000e-004	5.8300e-003	4.9000e-003	4.0000e-005		4.4000e-004	4.4000e-004		4.4000e-004	4.4000e-004	0.0000	6.3503	6.3503	1.2000e-004	1.2000e-004	6.3880
Single Family Housing	7.04671e+006	0.0380	0.3247	0.1382	2.0700e-003		0.0263	0.0263		0.0263	0.0263	0.0000	376.0391	376.0391	7.2100e-003	6.8900e-003	378.2737
<b>Total</b>		<b>0.1106</b>	<b>0.9843</b>	<b>0.6922</b>	<b>6.0300e-003</b>		<b>0.0764</b>	<b>0.0764</b>		<b>0.0764</b>	<b>0.0764</b>	<b>0.0000</b>	<b>1,094.1000</b>	<b>1,094.1000</b>	<b>0.0210</b>	<b>0.0201</b>	<b>1,100.6017</b>

Mitigated - San Luis Ranch Project - 2018 Start - San Luis Obispo County APCD Air District, Annual

**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	tons/yr										MT/yr					
General Office Building	329300	1.7800e-003	0.0161	0.0136	1.0000e-004		1.2300e-003	1.2300e-003		1.2300e-003	1.2300e-003	0.0000	17.5727	17.5727	3.4000e-004	3.2000e-004	17.6771
Hotel	1.06164e+007	0.0573	0.5204	0.4372	3.1200e-003		0.0396	0.0396		0.0396	0.0396	0.0000	566.5338	566.5338	0.0109	0.0104	569.9005
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	95200	5.1000e-004	4.6700e-003	3.9200e-003	3.0000e-005		3.5000e-004	3.5000e-004		3.5000e-004	3.5000e-004	0.0000	5.0802	5.0802	1.0000e-004	9.0000e-005	5.1104
Single Family Housing	5.76104e+006	0.0311	0.2655	0.1130	1.6900e-003		0.0215	0.0215		0.0215	0.0215	0.0000	307.4311	307.4311	5.8900e-003	5.6400e-003	309.2580
<b>Total</b>		<b>0.0906</b>	<b>0.8067</b>	<b>0.5676</b>	<b>4.9400e-003</b>		<b>0.0626</b>	<b>0.0626</b>		<b>0.0626</b>	<b>0.0626</b>	<b>0.0000</b>	<b>896.6178</b>	<b>896.6178</b>	<b>0.0172</b>	<b>0.0164</b>	<b>901.9460</b>

## Mitigated - San Luis Ranch Project - 2018 Start - San Luis Obispo County APCD Air District, Annual

**5.3 Energy by Land Use - Electricity****Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	455500	132.5102	5.9900e-003	1.2400e-003	133.0294
Hotel	2.25931e+006	657.2598	0.0297	6.1500e-003	659.8351
Parking Lot	46957.7	13.6605	6.2000e-004	1.3000e-004	13.7141
Parking Lot	80498.9	23.4181	1.0600e-003	2.2000e-004	23.5098
Regional Shopping Center	547500	159.2740	7.2000e-003	1.4900e-003	159.8981
Single Family Housing	1.697e+006	493.6771	0.0223	4.6200e-003	495.6115
<b>Total</b>		<b>1,479.7997</b>	<b>0.0669</b>	<b>0.0139</b>	<b>1,485.5980</b>

## Mitigated - San Luis Ranch Project - 2018 Start - San Luis Obispo County APCD Air District, Annual

**5.3 Energy by Land Use - Electricity****Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	423500	123.2010	5.5700e-003	1.1500e-003	123.6837
Hotel	2.13444e+006	620.9331	0.0281	5.8100e-003	623.3661
Parking Lot	46957.7	13.6605	6.2000e-004	1.3000e-004	13.7141
Parking Lot	80498.9	23.4181	1.0600e-003	2.2000e-004	23.5098
Regional Shopping Center	518600	150.8667	6.8200e-003	1.4100e-003	151.4578
Single Family Housing	1.64959e+006	479.8846	0.0217	4.4900e-003	481.7650
<b>Total</b>		<b>1,411.9640</b>	<b>0.0639</b>	<b>0.0132</b>	<b>1,417.4965</b>

**6.0 Area Detail****6.1 Mitigation Measures Area**

No Hearths Installed



Mitigated - San Luis Ranch Project - 2018 Start - San Luis Obispo County APCD Air District, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	3.8746	0.0310	2.6817	1.4000e-004		0.0147	0.0147		0.0147	0.0147	0.0000	4.3674	4.3674	4.2700e-003	0.0000	4.4743
Unmitigated	3.8746	0.0310	2.6817	1.4000e-004		0.0147	0.0147		0.0147	0.0147	0.0000	4.3674	4.3674	4.2700e-003	0.0000	4.4743

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.9783					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.8143					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0820	0.0310	2.6817	1.4000e-004		0.0147	0.0147		0.0147	0.0147	0.0000	4.3674	4.3674	4.2700e-003	0.0000	4.4743
<b>Total</b>	<b>3.8746</b>	<b>0.0310</b>	<b>2.6817</b>	<b>1.4000e-004</b>		<b>0.0147</b>	<b>0.0147</b>		<b>0.0147</b>	<b>0.0147</b>	<b>0.0000</b>	<b>4.3674</b>	<b>4.3674</b>	<b>4.2700e-003</b>	<b>0.0000</b>	<b>4.4743</b>

Mitigated - San Luis Ranch Project - 2018 Start - San Luis Obispo County APCD Air District, Annual

**6.2 Area by SubCategory**

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.9783					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.8143					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0820	0.0310	2.6817	1.4000e-004		0.0147	0.0147		0.0147	0.0147	0.0000	4.3674	4.3674	4.2700e-003	0.0000	4.4743
<b>Total</b>	<b>3.8746</b>	<b>0.0310</b>	<b>2.6817</b>	<b>1.4000e-004</b>		<b>0.0147</b>	<b>0.0147</b>		<b>0.0147</b>	<b>0.0147</b>	<b>0.0000</b>	<b>4.3674</b>	<b>4.3674</b>	<b>4.2700e-003</b>	<b>0.0000</b>	<b>4.4743</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

Mitigated - San Luis Ranch Project - 2018 Start - San Luis Obispo County APCD Air District, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	63.0131	0.8494	0.0205	90.3594
Unmitigated	63.0131	0.8494	0.0205	90.3594

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	4.44334 / 2.72334	11.1769	0.1452	3.5100e-003	15.8536
Hotel	5.07335 / 0.563706	10.1696	0.1657	3.9800e-003	15.4992
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	3.70363 / 2.26996	9.3162	0.1211	2.9300e-003	13.2144
Single Family Housing	12.7702 / 8.05077	32.3504	0.4174	0.0101	45.7922
<b>Total</b>		<b>63.0131</b>	<b>0.8494</b>	<b>0.0205</b>	<b>90.3594</b>

## Mitigated - San Luis Ranch Project - 2018 Start - San Luis Obispo County APCD Air District, Annual

**7.2 Water by Land Use****Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	4.44334 / 2.72334	11.1769	0.1452	3.5100e-003	15.8536
Hotel	5.07335 / 0.563706	10.1696	0.1657	3.9800e-003	15.4992
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	3.70363 / 2.26996	9.3162	0.1211	2.9300e-003	13.2144
Single Family Housing	12.7702 / 8.05077	32.3504	0.4174	0.0101	45.7922
<b>Total</b>		<b>63.0131</b>	<b>0.8494</b>	<b>0.0205</b>	<b>90.3594</b>

**8.0 Waste Detail****8.1 Mitigation Measures Waste**

Mitigated - San Luis Ranch Project - 2018 Start - San Luis Obispo County APCD Air District, Annual

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	84.2940	4.9816	0.0000	208.8349
Unmitigated	84.2940	4.9816	0.0000	208.8349

**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	23.25	4.7195	0.2789	0.0000	11.6925
Hotel	109.5	22.2275	1.3136	0.0000	55.0677
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	52.5	10.6570	0.6298	0.0000	26.4023
Single Family Housing	230.01	46.6900	2.7593	0.0000	115.6724
<b>Total</b>		<b>84.2940</b>	<b>4.9816</b>	<b>0.0000</b>	<b>208.8349</b>

Mitigated - San Luis Ranch Project - 2018 Start - San Luis Obispo County APCD Air District, Annual

**8.2 Waste by Land Use**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	23.25	4.7195	0.2789	0.0000	11.6925
Hotel	109.5	22.2275	1.3136	0.0000	55.0677
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	52.5	10.6570	0.6298	0.0000	26.4023
Single Family Housing	230.01	46.6900	2.7593	0.0000	115.6724
<b>Total</b>		<b>84.2940</b>	<b>4.9816</b>	<b>0.0000</b>	<b>208.8349</b>

**9.0 Operational Offroad**

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

Fire Pumps and Emergency Generators

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

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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Mitigated - San Luis Ranch Project - 2018 Start - San Luis Obispo County APCD Air District, Annual

**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

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Mitigated - San Luis Ranch Project - 2018 Start - San Luis Obispo County APCD Air District, Summer

**Mitigated - San Luis Ranch Project - 2018 Start**  
**San Luis Obispo County APCD Air District, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	25.00	1000sqft	0.63	25,000.00	0
Parking Lot	2.10	Acre	2.10	91,476.00	0
Parking Lot	1.23	Acre	1.23	53,361.00	0
Hotel	200.00	Room	3.50	290,400.00	0
Single Family Housing	196.00	Dwelling Unit	15.00	352,800.00	561
Regional Shopping Center	50.00	1000sqft	1.15	50,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	3.2	<b>Precipitation Freq (Days)</b>	44
<b>Climate Zone</b>	4			<b>Operational Year</b>	2020
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MW hr)</b>	641.35	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

**1.3 User Entered Comments & Non-Default Data**



Mitigated - San Luis Ranch Project - 2018 Start - San Luis Obispo County APCD Air District, Summer

Project Characteristics -

Land Use - Land use values from buildout and phasing in Specific Plan Section 7.7. Includes portions of Phases 1, 2, 4, 5, and 6.

Construction Phase - No demolition in phases 1, 2, 4, 5 and 6. AC expected to overlap with half of building construction as painting would occur as buildings are finished.

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Demolition -

Grading - Total import proportionally distributed by phase acreage.

Architectural Coating - Per MM AQ-2

Vehicle Trips - Trip generation rate based on Omni-Means 2016 Traffic Impact Study.

Woodstoves - Per MM AQ-3

Construction Off-road Equipment Mitigation - Per MM AQ-2

Mobile Land Use Mitigation - Trip reductions from project's density, diversity, and access to alternative transportation accounted for in trip generation rates.

Area Mitigation - Per MM AQ-3

Energy Mitigation - Per Specific Plan, appliances will be energy efficient. Exceed Title 24 per MM AQ-3

Water Mitigation -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	50.00
tblArchitecturalCoating	EF_Parking	150.00	50.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	50.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	50.00
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	0
tblConstEquipMitigation	DPF	No Change	Level 2
tblConstEquipMitigation	DPF	No Change	Level 2
tblConstEquipMitigation	DPF	No Change	Level 2

Mitigated - San Luis Ranch Project - 2018 Start - San Luis Obispo County APCD Air District, Summer

tblConstEquipMitigation	DPF	No Change	Level 2
tblConstEquipMitigation	DPF	No Change	Level 2
tblConstEquipMitigation	DPF	No Change	Level 2
tblConstEquipMitigation	DPF	No Change	Level 2
tblConstEquipMitigation	DPF	No Change	Level 2
tblConstEquipMitigation	DPF	No Change	Level 2
tblConstEquipMitigation	DPF	No Change	Level 2
tblConstEquipMitigation	DPF	No Change	Level 2
tblConstEquipMitigation	DPF	No Change	Level 2
tblConstEquipMitigation	DPF	No Change	Level 2
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3

Mitigated - San Luis Ranch Project - 2018 Start - San Luis Obispo County APCD Air District, Summer

tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	20.00	185.00
tblFleetMix	FleetMixLandUseSubType	Parking Lot	Hotel
tblFleetMix	FleetMixLandUseSubType	Hotel	Parking Lot
tblFleetMix	FleetMixLandUseSubType	Single Family Housing	Regional Shopping Center
tblFleetMix	FleetMixLandUseSubType	Regional Shopping Center	Single Family Housing
tblGrading	MaterialImported	0.00	91,760.00
tblLandUse	BuildingSpaceSquareFeet	53,578.80	53,361.00
tblLandUse	LandUseSquareFeet	53,578.80	53,361.00
tblLandUse	LotAcreage	0.57	0.63
tblLandUse	LotAcreage	6.67	3.50
tblLandUse	LotAcreage	63.64	15.00
tblProjectCharacteristics	OperationalYear	2018	2020
tblVehicleTrips	ST_TR	2.46	2.68
tblVehicleTrips	ST_TR	8.19	4.86
tblVehicleTrips	ST_TR	49.97	10.38
tblVehicleTrips	ST_TR	9.91	5.29
tblVehicleTrips	SU_TR	1.05	1.14
tblVehicleTrips	SU_TR	5.95	3.53

## Mitigated - San Luis Ranch Project - 2018 Start - San Luis Obispo County APCD Air District, Summer

tblVehicleTrips	SU_TR	25.24	5.24
tblVehicleTrips	SU_TR	8.62	4.61
tblVehicleTrips	WD_TR	11.03	12.00
tblVehicleTrips	WD_TR	8.17	4.85
tblVehicleTrips	WD_TR	42.70	8.87
tblVehicleTrips	WD_TR	9.52	5.09
tblWoodstoves	WoodstoveDayYear	60.00	0.00
tblWoodstoves	WoodstoveWoodMass	2,016.00	0.00

## 2.0 Emissions Summary

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Mitigated - San Luis Ranch Project - 2018 Start - San Luis Obispo County APCD Air District, Summer

**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	21.2782	0.1879	16.2526	8.6000e-004		0.0893	0.0893		0.0893	0.0893	0.0000	29.1772	29.1772	0.0286	0.0000	29.8910
Energy	0.6058	5.3935	3.7931	0.0330		0.4185	0.4185		0.4185	0.4185		6,608.4318	6,608.4318	0.1267	0.1212	6,647.7024
Mobile	5.4953	20.2339	55.2733	0.1417	11.9424	0.1732	12.1155	3.1920	0.1631	3.3551		14,270.0678	14,270.0678	0.6209		14,285.5905
<b>Total</b>	<b>27.3792</b>	<b>25.8153</b>	<b>75.3190</b>	<b>0.1756</b>	<b>11.9424</b>	<b>0.6810</b>	<b>12.6234</b>	<b>3.1920</b>	<b>0.6709</b>	<b>3.8629</b>	<b>0.0000</b>	<b>20,907.6767</b>	<b>20,907.6767</b>	<b>0.7761</b>	<b>0.1212</b>	<b>20,963.1840</b>

**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	21.2782	0.1879	16.2526	8.6000e-004		0.0893	0.0893		0.0893	0.0893	0.0000	29.1772	29.1772	0.0286	0.0000	29.8910
Energy	0.4964	4.4202	3.1101	0.0271		0.3430	0.3430		0.3430	0.3430		5,415.6273	5,415.6273	0.1038	0.0993	5,447.8097
Mobile	5.4953	20.2339	55.2733	0.1417	11.9424	0.1732	12.1155	3.1920	0.1631	3.3551		14,270.0678	14,270.0678	0.6209		14,285.5905
<b>Total</b>	<b>27.2698</b>	<b>24.8420</b>	<b>74.6360</b>	<b>0.1696</b>	<b>11.9424</b>	<b>0.6055</b>	<b>12.5478</b>	<b>3.1920</b>	<b>0.5954</b>	<b>3.7874</b>	<b>0.0000</b>	<b>19,714.8722</b>	<b>19,714.8722</b>	<b>0.7533</b>	<b>0.0993</b>	<b>19,763.2913</b>

## Mitigated - San Luis Ranch Project - 2018 Start - San Luis Obispo County APCD Air District, Summer

	ROG	NOx	CO	SO2	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	0.40	3.77	0.91	3.40	0.00	11.09	0.60	0.00	11.26	1.96	0.00	5.71	5.71	2.95	18.04	5.72

### 3.0 Construction Detail

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#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/1/2018	1/12/2018	5	10	
2	Grading	Grading	1/13/2018	2/23/2018	5	35	
3	Building Construction	Building Construction	2/24/2018	4/19/2019	5	370	
4	Architectural Coating	Architectural Coating	9/3/2018	5/17/2019	5	185	
5	Paving	Paving	4/20/2019	5/17/2019	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 87.5

Acres of Paving: 3.33

Residential Indoor: 714,420; Residential Outdoor: 238,140; Non-Residential Indoor: 548,100; Non-Residential Outdoor: 182,700; Striped Parking Area: 8,690 (Architectural Coating – sqft)

#### OffRoad Equipment

Mitigated - San Luis Ranch Project - 2018 Start - San Luis Obispo County APCD Air District, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38

**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
Site Preparation	7	18.00	0.00	0.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	11,470.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	277.00	105.00	0.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	55.00	0.00	0.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**



Mitigated - San Luis Ranch Project - 2018 Start - San Luis Obispo County APCD Air District, Summer

Use Cleaner Engines for Construction Equipment

Use DPF for Construction Equipment

**3.2 Site Preparation - 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										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.5627	48.1988	22.4763	0.0380		2.5769	2.5769		2.3708	2.3708		3,831.6239	3,831.6239	1.1928		3,861.4448
<b>Total</b>	<b>4.5627</b>	<b>48.1988</b>	<b>22.4763</b>	<b>0.0380</b>	<b>18.0663</b>	<b>2.5769</b>	<b>20.6432</b>	<b>9.9307</b>	<b>2.3708</b>	<b>12.3014</b>		<b>3,831.6239</b>	<b>3,831.6239</b>	<b>1.1928</b>		<b>3,861.4448</b>

Mitigated - San Luis Ranch Project - 2018 Start - San Luis Obispo County APCD Air District, Summer

**3.2 Site Preparation - 2018**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0942	0.0833	0.8219	1.7800e-003	0.1780	1.2200e-003	0.1792	0.0472	1.1200e-003	0.0483		176.7876	176.7876	7.1600e-003		176.9666
<b>Total</b>	<b>0.0942</b>	<b>0.0833</b>	<b>0.8219</b>	<b>1.7800e-003</b>	<b>0.1780</b>	<b>1.2200e-003</b>	<b>0.1792</b>	<b>0.0472</b>	<b>1.1200e-003</b>	<b>0.0483</b>		<b>176.7876</b>	<b>176.7876</b>	<b>7.1600e-003</b>		<b>176.9666</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	0.9312	19.0656	22.9600	0.0380		0.4731	0.4731		0.4731	0.4731	0.0000	3,831.6239	3,831.6239	1.1928		3,861.4448
<b>Total</b>	<b>0.9312</b>	<b>19.0656</b>	<b>22.9600</b>	<b>0.0380</b>	<b>18.0663</b>	<b>0.4731</b>	<b>18.5393</b>	<b>9.9307</b>	<b>0.4731</b>	<b>10.4038</b>	<b>0.0000</b>	<b>3,831.6239</b>	<b>3,831.6239</b>	<b>1.1928</b>		<b>3,861.4448</b>

Mitigated - San Luis Ranch Project - 2018 Start - San Luis Obispo County APCD Air District, Summer

**3.2 Site Preparation - 2018**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0942	0.0833	0.8219	1.7800e-003	0.1780	1.2200e-003	0.1792	0.0472	1.1200e-003	0.0483		176.7876	176.7876	7.1600e-003		176.9666
<b>Total</b>	<b>0.0942</b>	<b>0.0833</b>	<b>0.8219</b>	<b>1.7800e-003</b>	<b>0.1780</b>	<b>1.2200e-003</b>	<b>0.1792</b>	<b>0.0472</b>	<b>1.1200e-003</b>	<b>0.0483</b>		<b>176.7876</b>	<b>176.7876</b>	<b>7.1600e-003</b>		<b>176.9666</b>

**3.3 Grading - 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										lb/day					
Fugitive Dust					9.1559	0.0000	9.1559	3.6696	0.0000	3.6696			0.0000			0.0000
Off-Road	5.0901	59.5218	35.0894	0.0620		2.6337	2.6337		2.4230	2.4230		6,244.4284	6,244.4284	1.9440		6,293.0278
<b>Total</b>	<b>5.0901</b>	<b>59.5218</b>	<b>35.0894</b>	<b>0.0620</b>	<b>9.1559</b>	<b>2.6337</b>	<b>11.7896</b>	<b>3.6696</b>	<b>2.4230</b>	<b>6.0926</b>		<b>6,244.4284</b>	<b>6,244.4284</b>	<b>1.9440</b>		<b>6,293.0278</b>

Mitigated - San Luis Ranch Project - 2018 Start - San Luis Obispo County APCD Air District, Summer

**3.3 Grading - 2018**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	3.8364	120.0134	26.9194	0.2648	6.4360	0.8839	7.3200	1.7422	0.8457	2.5878		28,440.8103	28,440.8103	1.5653		28,479.9415
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	0.1046	0.0926	0.9132	1.9800e-003	0.1977	1.3500e-003	0.1991	0.0524	1.2500e-003	0.0537		196.4307	196.4307	7.9500e-003		196.6295
<b>Total</b>	<b>3.9410</b>	<b>120.1059</b>	<b>27.8326</b>	<b>0.2668</b>	<b>6.6338</b>	<b>0.8853</b>	<b>7.5190</b>	<b>1.7946</b>	<b>0.8469</b>	<b>2.6415</b>		<b>28,637.2410</b>	<b>28,637.2410</b>	<b>1.5732</b>		<b>28,676.5710</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.1559	0.0000	9.1559	3.6696	0.0000	3.6696			0.0000			0.0000
Off-Road	1.5231	29.9782	36.7226	0.0620		0.6497	0.6497		0.6497	0.6497	0.0000	6,244.4284	6,244.4284	1.9440		6,293.0278
<b>Total</b>	<b>1.5231</b>	<b>29.9782</b>	<b>36.7226</b>	<b>0.0620</b>	<b>9.1559</b>	<b>0.6497</b>	<b>9.8056</b>	<b>3.6696</b>	<b>0.6497</b>	<b>4.3193</b>	<b>0.0000</b>	<b>6,244.4284</b>	<b>6,244.4284</b>	<b>1.9440</b>		<b>6,293.0278</b>

Mitigated - San Luis Ranch Project - 2018 Start - San Luis Obispo County APCD Air District, Summer

**3.3 Grading - 2018**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	3.8364	120.0134	26.9194	0.2648	6.4360	0.8839	7.3200	1.7422	0.8457	2.5878		28,440.8103	28,440.8103	1.5653		28,479.9415
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	0.1046	0.0926	0.9132	1.9800e-003	0.1977	1.3500e-003	0.1991	0.0524	1.2500e-003	0.0537		196.4307	196.4307	7.9500e-003		196.6295
<b>Total</b>	<b>3.9410</b>	<b>120.1059</b>	<b>27.8326</b>	<b>0.2668</b>	<b>6.6338</b>	<b>0.8853</b>	<b>7.5190</b>	<b>1.7946</b>	<b>0.8469</b>	<b>2.6415</b>		<b>28,637.2410</b>	<b>28,637.2410</b>	<b>1.5732</b>		<b>28,676.5710</b>

**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										lb/day					
Off-Road	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099		2,620.9351	2,620.9351	0.6421		2,636.9883
<b>Total</b>	<b>2.6795</b>	<b>23.3900</b>	<b>17.5804</b>	<b>0.0269</b>		<b>1.4999</b>	<b>1.4999</b>		<b>1.4099</b>	<b>1.4099</b>		<b>2,620.9351</b>	<b>2,620.9351</b>	<b>0.6421</b>		<b>2,636.9883</b>

Mitigated - San Luis Ranch Project - 2018 Start - San Luis Obispo County APCD Air District, Summer

**3.4 Building Construction - 2018**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.5522	12.4602	4.0061	0.0213	0.4872	0.1156	0.6029	0.1403	0.1106	0.2509		2,262.8686	2,262.8686	0.1436		2,266.4587
Worker	1.4493	1.2823	12.6483	0.0274	2.7385	0.0187	2.7572	0.7263	0.0173	0.7436		2,720.5650	2,720.5650	0.1102		2,723.3187
<b>Total</b>	<b>2.0015</b>	<b>13.7425</b>	<b>16.6543</b>	<b>0.0487</b>	<b>3.2257</b>	<b>0.1344</b>	<b>3.3600</b>	<b>0.8666</b>	<b>0.1279</b>	<b>0.9945</b>		<b>4,983.4335</b>	<b>4,983.4335</b>	<b>0.2538</b>		<b>4,989.7774</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6739	14.2261	17.8738	0.0269		0.4518	0.4518		0.4518	0.4518	0.0000	2,620.9351	2,620.9351	0.6421		2,636.9883
<b>Total</b>	<b>0.6739</b>	<b>14.2261</b>	<b>17.8738</b>	<b>0.0269</b>		<b>0.4518</b>	<b>0.4518</b>		<b>0.4518</b>	<b>0.4518</b>	<b>0.0000</b>	<b>2,620.9351</b>	<b>2,620.9351</b>	<b>0.6421</b>		<b>2,636.9883</b>

Mitigated - San Luis Ranch Project - 2018 Start - San Luis Obispo County APCD Air District, Summer

**3.4 Building Construction - 2018**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.5522	12.4602	4.0061	0.0213	0.4872	0.1156	0.6029	0.1403	0.1106	0.2509		2,262.8686	2,262.8686	0.1436		2,266.4587
Worker	1.4493	1.2823	12.6483	0.0274	2.7385	0.0187	2.7572	0.7263	0.0173	0.7436		2,720.5650	2,720.5650	0.1102		2,723.3187
<b>Total</b>	<b>2.0015</b>	<b>13.7425</b>	<b>16.6543</b>	<b>0.0487</b>	<b>3.2257</b>	<b>0.1344</b>	<b>3.3600</b>	<b>0.8666</b>	<b>0.1279</b>	<b>0.9945</b>		<b>4,983.4335</b>	<b>4,983.4335</b>	<b>0.2538</b>		<b>4,989.7774</b>

**3.4 Building Construction - 2019**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127		2,591.5802	2,591.5802	0.6313		2,607.3635
<b>Total</b>	<b>2.3612</b>	<b>21.0788</b>	<b>17.1638</b>	<b>0.0269</b>		<b>1.2899</b>	<b>1.2899</b>		<b>1.2127</b>	<b>1.2127</b>		<b>2,591.5802</b>	<b>2,591.5802</b>	<b>0.6313</b>		<b>2,607.3635</b>

Mitigated - San Luis Ranch Project - 2018 Start - San Luis Obispo County APCD Air District, Summer

**3.4 Building Construction - 2019**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.4805	11.8566	3.5289	0.0212	0.4873	0.0947	0.5820	0.1403	0.0906	0.2310		2,257.5596	2,257.5596	0.1387		2,261.0262
Worker	1.3012	1.1221	11.1315	0.0265	2.7385	0.0181	2.7566	0.7263	0.0167	0.7430		2,640.7748	2,640.7748	0.0970		2,643.2001
<b>Total</b>	<b>1.7817</b>	<b>12.9787</b>	<b>14.6603</b>	<b>0.0478</b>	<b>3.2258</b>	<b>0.1128</b>	<b>3.3386</b>	<b>0.8666</b>	<b>0.1074</b>	<b>0.9740</b>		<b>4,898.3345</b>	<b>4,898.3345</b>	<b>0.2357</b>		<b>4,904.2263</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6739	14.2261	17.8738	0.0269		0.4518	0.4518		0.4518	0.4518	0.0000	2,591.5802	2,591.5802	0.6313		2,607.3635
<b>Total</b>	<b>0.6739</b>	<b>14.2261</b>	<b>17.8738</b>	<b>0.0269</b>		<b>0.4518</b>	<b>0.4518</b>		<b>0.4518</b>	<b>0.4518</b>	<b>0.0000</b>	<b>2,591.5802</b>	<b>2,591.5802</b>	<b>0.6313</b>		<b>2,607.3635</b>



Mitigated - San Luis Ranch Project - 2018 Start - San Luis Obispo County APCD Air District, Summer

**3.4 Building Construction - 2019**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.4805	11.8566	3.5289	0.0212	0.4873	0.0947	0.5820	0.1403	0.0906	0.2310		2,257.5596	2,257.5596	0.1387		2,261.0262
Worker	1.3012	1.1221	11.1315	0.0265	2.7385	0.0181	2.7566	0.7263	0.0167	0.7430		2,640.7748	2,640.7748	0.0970		2,643.2001
<b>Total</b>	<b>1.7817</b>	<b>12.9787</b>	<b>14.6603</b>	<b>0.0478</b>	<b>3.2258</b>	<b>0.1128</b>	<b>3.3386</b>	<b>0.8666</b>	<b>0.1074</b>	<b>0.9740</b>		<b>4,898.3345</b>	<b>4,898.3345</b>	<b>0.2357</b>		<b>4,904.2263</b>

**3.5 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	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	21.1964					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2986	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506		281.4485	281.4485	0.0267		282.1171
<b>Total</b>	<b>21.4950</b>	<b>2.0058</b>	<b>1.8542</b>	<b>2.9700e-003</b>		<b>0.1506</b>	<b>0.1506</b>		<b>0.1506</b>	<b>0.1506</b>		<b>281.4485</b>	<b>281.4485</b>	<b>0.0267</b>		<b>282.1171</b>

Mitigated - San Luis Ranch Project - 2018 Start - San Luis Obispo County APCD Air District, Summer

**3.5 Architectural Coating - 2018**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2878	0.2546	2.5114	5.4300e-003	0.5437	3.7200e-003	0.5475	0.1442	3.4400e-003	0.1477		540.1844	540.1844	0.0219		540.7311
<b>Total</b>	<b>0.2878</b>	<b>0.2546</b>	<b>2.5114</b>	<b>5.4300e-003</b>	<b>0.5437</b>	<b>3.7200e-003</b>	<b>0.5475</b>	<b>0.1442</b>	<b>3.4400e-003</b>	<b>0.1477</b>		<b>540.1844</b>	<b>540.1844</b>	<b>0.0219</b>		<b>540.7311</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	21.1964					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0594	1.3570	1.8324	2.9700e-003		0.0475	0.0475		0.0475	0.0475	0.0000	281.4485	281.4485	0.0267		282.1171
<b>Total</b>	<b>21.2558</b>	<b>1.3570</b>	<b>1.8324</b>	<b>2.9700e-003</b>		<b>0.0475</b>	<b>0.0475</b>		<b>0.0475</b>	<b>0.0475</b>	<b>0.0000</b>	<b>281.4485</b>	<b>281.4485</b>	<b>0.0267</b>		<b>282.1171</b>

Mitigated - San Luis Ranch Project - 2018 Start - San Luis Obispo County APCD Air District, Summer

**3.5 Architectural Coating - 2018**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2878	0.2546	2.5114	5.4300e-003	0.5437	3.7200e-003	0.5475	0.1442	3.4400e-003	0.1477		540.1844	540.1844	0.0219		540.7311
<b>Total</b>	<b>0.2878</b>	<b>0.2546</b>	<b>2.5114</b>	<b>5.4300e-003</b>	<b>0.5437</b>	<b>3.7200e-003</b>	<b>0.5475</b>	<b>0.1442</b>	<b>3.4400e-003</b>	<b>0.1477</b>		<b>540.1844</b>	<b>540.1844</b>	<b>0.0219</b>		<b>540.7311</b>

**3.5 Architectural Coating - 2019**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	21.1964					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2664	1.8354	1.8413	2.9700e-003		0.1288	0.1288		0.1288	0.1288		281.4481	281.4481	0.0238		282.0423
<b>Total</b>	<b>21.4628</b>	<b>1.8354</b>	<b>1.8413</b>	<b>2.9700e-003</b>		<b>0.1288</b>	<b>0.1288</b>		<b>0.1288</b>	<b>0.1288</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0238</b>		<b>282.0423</b>

Mitigated - San Luis Ranch Project - 2018 Start - San Luis Obispo County APCD Air District, Summer

**3.5 Architectural Coating - 2019**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2584	0.2228	2.2102	5.2700e-003	0.5437	3.6000e-003	0.5473	0.1442	3.3200e-003	0.1475		524.3416	524.3416	0.0193		524.8231
<b>Total</b>	<b>0.2584</b>	<b>0.2228</b>	<b>2.2102</b>	<b>5.2700e-003</b>	<b>0.5437</b>	<b>3.6000e-003</b>	<b>0.5473</b>	<b>0.1442</b>	<b>3.3200e-003</b>	<b>0.1475</b>		<b>524.3416</b>	<b>524.3416</b>	<b>0.0193</b>		<b>524.8231</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	21.1964					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0594	1.3570	1.8324	2.9700e-003		0.0475	0.0475		0.0475	0.0475	0.0000	281.4481	281.4481	0.0238		282.0423
<b>Total</b>	<b>21.2558</b>	<b>1.3570</b>	<b>1.8324</b>	<b>2.9700e-003</b>		<b>0.0475</b>	<b>0.0475</b>		<b>0.0475</b>	<b>0.0475</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0238</b>		<b>282.0423</b>

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**3.5 Architectural Coating - 2019**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2584	0.2228	2.2102	5.2700e-003	0.5437	3.6000e-003	0.5473	0.1442	3.3200e-003	0.1475		524.3416	524.3416	0.0193		524.8231
<b>Total</b>	<b>0.2584</b>	<b>0.2228</b>	<b>2.2102</b>	<b>5.2700e-003</b>	<b>0.5437</b>	<b>3.6000e-003</b>	<b>0.5473</b>	<b>0.1442</b>	<b>3.3200e-003</b>	<b>0.1475</b>		<b>524.3416</b>	<b>524.3416</b>	<b>0.0193</b>		<b>524.8231</b>

**3.6 Paving - 2019**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4544	15.2441	14.6648	0.0228		0.8246	0.8246		0.7586	0.7586		2,257.0025	2,257.0025	0.7141		2,274.8548
Paving	0.4362					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.8907</b>	<b>15.2441</b>	<b>14.6648</b>	<b>0.0228</b>		<b>0.8246</b>	<b>0.8246</b>		<b>0.7586</b>	<b>0.7586</b>		<b>2,257.0025</b>	<b>2,257.0025</b>	<b>0.7141</b>		<b>2,274.8548</b>

Mitigated - San Luis Ranch Project - 2018 Start - San Luis Obispo County APCD Air District, Summer

**3.6 Paving - 2019**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0705	0.0608	0.6028	1.4400e-003	0.1483	9.8000e-004	0.1493	0.0393	9.1000e-004	0.0402		143.0023	143.0023	5.2500e-003		143.1336
<b>Total</b>	<b>0.0705</b>	<b>0.0608</b>	<b>0.6028</b>	<b>1.4400e-003</b>	<b>0.1483</b>	<b>9.8000e-004</b>	<b>0.1493</b>	<b>0.0393</b>	<b>9.1000e-004</b>	<b>0.0402</b>		<b>143.0023</b>	<b>143.0023</b>	<b>5.2500e-003</b>		<b>143.1336</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5609	11.2952	17.2957	0.0228		0.3047	0.3047		0.3047	0.3047	0.0000	2,257.0025	2,257.0025	0.7141		2,274.8548
Paving	0.4362					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.9972</b>	<b>11.2952</b>	<b>17.2957</b>	<b>0.0228</b>		<b>0.3047</b>	<b>0.3047</b>		<b>0.3047</b>	<b>0.3047</b>	<b>0.0000</b>	<b>2,257.0025</b>	<b>2,257.0025</b>	<b>0.7141</b>		<b>2,274.8548</b>

Mitigated - San Luis Ranch Project - 2018 Start - San Luis Obispo County APCD Air District, Summer

**3.6 Paving - 2019**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0705	0.0608	0.6028	1.4400e-003	0.1483	9.8000e-004	0.1493	0.0393	9.1000e-004	0.0402		143.0023	143.0023	5.2500e-003		143.1336
<b>Total</b>	<b>0.0705</b>	<b>0.0608</b>	<b>0.6028</b>	<b>1.4400e-003</b>	<b>0.1483</b>	<b>9.8000e-004</b>	<b>0.1493</b>	<b>0.0393</b>	<b>9.1000e-004</b>	<b>0.0402</b>		<b>143.0023</b>	<b>143.0023</b>	<b>5.2500e-003</b>		<b>143.1336</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

Mitigated - San Luis Ranch Project - 2018 Start - San Luis Obispo County APCD Air District, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	5.4953	20.2339	55.2733	0.1417	11.9424	0.1732	12.1155	3.1920	0.1631	3.3551		14,270.0678	14,270.0678	0.6209		14,285.5905
Unmitigated	5.4953	20.2339	55.2733	0.1417	11.9424	0.1732	12.1155	3.1920	0.1631	3.3551		14,270.0678	14,270.0678	0.6209		14,285.5905

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	300.00	67.00	28.50	518,513	518,513
Hotel	970.00	972.00	706.00	1,502,636	1,502,636
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Regional Shopping Center	443.50	519.00	262.00	618,505	618,505
Single Family Housing	997.64	1,036.84	903.56	2,515,633	2,515,633
Total	2,711.14	2,594.84	1,900.06	5,155,287	5,155,287

4.3 Trip Type Information



Mitigated - San Luis Ranch Project - 2018 Start - San Luis Obispo County APCD Air District, Summer

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
General Office Building	13.00	5.00	5.00	33.00	48.00	19.00	77	19	4
Hotel	13.00	5.00	5.00	19.40	61.60	19.00	58	38	4
Parking Lot	13.00	5.00	5.00	0.00	0.00	0.00	0	0	0
Parking Lot	13.00	5.00	5.00	0.00	0.00	0.00	0	0	0
Regional Shopping Center	13.00	5.00	5.00	16.30	64.70	19.00	54	35	11
Single Family Housing	13.00	5.00	5.00	35.80	21.00	43.20	86	11	3

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	0.559162	0.032279	0.198583	0.128083	0.030808	0.007362	0.013004	0.019140	0.002385	0.001267	0.005421	0.000811	0.001695
Hotel	0.559162	0.032279	0.198583	0.128083	0.030808	0.007362	0.013004	0.019140	0.002385	0.001267	0.005421	0.000811	0.001695
Parking Lot	0.559162	0.032279	0.198583	0.128083	0.030808	0.007362	0.013004	0.019140	0.002385	0.001267	0.005421	0.000811	0.001695
Parking Lot	0.559162	0.032279	0.198583	0.128083	0.030808	0.007362	0.013004	0.019140	0.002385	0.001267	0.005421	0.000811	0.001695
Regional Shopping Center	0.559162	0.032279	0.198583	0.128083	0.030808	0.007362	0.013004	0.019140	0.002385	0.001267	0.005421	0.000811	0.001695
Single Family Housing	0.559162	0.032279	0.198583	0.128083	0.030808	0.007362	0.013004	0.019140	0.002385	0.001267	0.005421	0.000811	0.001695

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

Exceed Title 24

Install Energy Efficient Appliances

Mitigated - San Luis Ranch Project - 2018 Start - San Luis Obispo County APCD Air District, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.4964	4.4202	3.1101	0.0271		0.3430	0.3430		0.3430	0.3430		5,415.6273	5,415.6273	0.1038	0.0993	5,447.8097
NaturalGas Unmitigated	0.6058	5.3935	3.7931	0.0330		0.4185	0.4185		0.4185	0.4185		6,608.4318	6,608.4318	0.1267	0.1212	6,647.7024

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Office Building	1126.71	0.0122	0.1105	0.0928	6.6000e-004		8.4000e-003	8.4000e-003		8.4000e-003	8.4000e-003		132.5544	132.5544	2.5400e-003	2.4300e-003	133.3421
Hotel	35412.9	0.3819	3.4719	2.9164	0.0208		0.2639	0.2639		0.2639	0.2639		4,166.2221	4,166.2221	0.0799	0.0764	4,190.9799
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	326.027	3.5200e-003	0.0320	0.0269	1.9000e-004		2.4300e-003	2.4300e-003		2.4300e-003	2.4300e-003		38.3562	38.3562	7.4000e-004	7.0000e-004	38.5841
Single Family Housing	19306	0.2082	1.7792	0.7571	0.0114		0.1439	0.1439		0.1439	0.1439		2,271.2992	2,271.2992	0.0435	0.0416	2,284.7964
<b>Total</b>		<b>0.6058</b>	<b>5.3935</b>	<b>3.7931</b>	<b>0.0330</b>		<b>0.4185</b>	<b>0.4185</b>		<b>0.4185</b>	<b>0.4185</b>		<b>6,608.4318</b>	<b>6,608.4318</b>	<b>0.1267</b>	<b>0.1212</b>	<b>6,647.7024</b>

Mitigated - San Luis Ranch Project - 2018 Start - San Luis Obispo County APCD Air District, Summer

**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					
General Office Building	0.902192	9.7300e-003	0.0885	0.0743	5.3000e-004		6.7200e-003	6.7200e-003		6.7200e-003	6.7200e-003		106.1402	106.1402	2.0300e-003	1.9500e-003	106.7710
Hotel	29.0861	0.3137	2.8516	2.3953	0.0171		0.2167	0.2167		0.2167	0.2167		3,421.8995	3,421.8995	0.0656	0.0627	3,442.2341
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	0.260822	2.8100e-003	0.0256	0.0215	1.5000e-004		1.9400e-003	1.9400e-003		1.9400e-003	1.9400e-003		30.6849	30.6849	5.9000e-004	5.6000e-004	30.8673
Single Family Housing	15.7837	0.1702	1.4546	0.6190	9.2800e-003		0.1176	0.1176		0.1176	0.1176		1,856.9027	1,856.9027	0.0356	0.0340	1,867.9373
<b>Total</b>		<b>0.4964</b>	<b>4.4202</b>	<b>3.1101</b>	<b>0.0271</b>		<b>0.3430</b>	<b>0.3430</b>		<b>0.3430</b>	<b>0.3430</b>		<b>5,415.6273</b>	<b>5,415.6273</b>	<b>0.1038</b>	<b>0.0993</b>	<b>5,447.8097</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

No Hearths Installed

Mitigated - San Luis Ranch Project - 2018 Start - San Luis Obispo County APCD Air District, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	21.2782	0.1879	16.2526	8.6000e-004		0.0893	0.0893		0.0893	0.0893	0.0000	29.1772	29.1772	0.0286	0.0000	29.8910
Unmitigated	21.2782	0.1879	16.2526	8.6000e-004		0.0893	0.0893		0.0893	0.0893	0.0000	29.1772	29.1772	0.0286	0.0000	29.8910

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	5.3606					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	15.4208					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.4967	0.1879	16.2526	8.6000e-004		0.0893	0.0893		0.0893	0.0893		29.1772	29.1772	0.0286		29.8910
<b>Total</b>	<b>21.2782</b>	<b>0.1879</b>	<b>16.2526</b>	<b>8.6000e-004</b>		<b>0.0893</b>	<b>0.0893</b>		<b>0.0893</b>	<b>0.0893</b>	<b>0.0000</b>	<b>29.1772</b>	<b>29.1772</b>	<b>0.0286</b>	<b>0.0000</b>	<b>29.8910</b>

Mitigated - San Luis Ranch Project - 2018 Start - San Luis Obispo County APCD Air District, Summer

**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	5.3606					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	15.4208					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.4967	0.1879	16.2526	8.6000e-004		0.0893	0.0893		0.0893	0.0893		29.1772	29.1772	0.0286		29.8910
<b>Total</b>	<b>21.2782</b>	<b>0.1879</b>	<b>16.2526</b>	<b>8.6000e-004</b>		<b>0.0893</b>	<b>0.0893</b>		<b>0.0893</b>	<b>0.0893</b>	<b>0.0000</b>	<b>29.1772</b>	<b>29.1772</b>	<b>0.0286</b>	<b>0.0000</b>	<b>29.8910</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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

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Mitigated - San Luis Ranch Project - 2018 Start - San Luis Obispo County APCD Air District, Summer

**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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**11.0 Vegetation**

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Mitigated - San Luis Ranch Project - 2018 Start - San Luis Obispo County APCD Air District, Winter

**Mitigated - San Luis Ranch Project - 2018 Start**  
**San Luis Obispo County APCD Air District, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	25.00	1000sqft	0.63	25,000.00	0
Parking Lot	2.10	Acre	2.10	91,476.00	0
Parking Lot	1.23	Acre	1.23	53,361.00	0
Hotel	200.00	Room	3.50	290,400.00	0
Single Family Housing	196.00	Dwelling Unit	15.00	352,800.00	561
Regional Shopping Center	50.00	1000sqft	1.15	50,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	3.2	<b>Precipitation Freq (Days)</b>	44
<b>Climate Zone</b>	4			<b>Operational Year</b>	2020
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MW hr)</b>	641.35	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

**1.3 User Entered Comments & Non-Default Data**

Mitigated - San Luis Ranch Project - 2018 Start - San Luis Obispo County APCD Air District, Winter

Project Characteristics -

Land Use - Land use values from buildout and phasing in Specific Plan Section 7.7. Includes portions of Phases 1, 2, 4, 5, and 6.

Construction Phase - No demolition in phases 1, 2, 4, 5 and 6. AC expected to overlap with half of building construction as painting would occur as buildings are finished.

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Demolition -

Grading - Total import proportionally distributed by phase acreage.

Architectural Coating - Per MM AQ-2

Vehicle Trips - Trip generation rate based on Omni-Means 2016 Traffic Impact Study.

Woodstoves - Per MM AQ-3

Construction Off-road Equipment Mitigation - Per MM AQ-2

Mobile Land Use Mitigation - Trip reductions from project's density, diversity, and access to alternative transportation accounted for in trip generation rates.

Area Mitigation - Per MM AQ-3

Energy Mitigation - Per Specific Plan, appliances will be energy efficient. Exceed Title 24 per MM AQ-3

Water Mitigation -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	50.00
tblArchitecturalCoating	EF_Parking	150.00	50.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	50.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	50.00
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	0
tblConstEquipMitigation	DPF	No Change	Level 2
tblConstEquipMitigation	DPF	No Change	Level 2
tblConstEquipMitigation	DPF	No Change	Level 2



Mitigated - San Luis Ranch Project - 2018 Start - San Luis Obispo County APCD Air District, Winter

tblConstEquipMitigation	DPF	No Change	Level 2
tblConstEquipMitigation	DPF	No Change	Level 2
tblConstEquipMitigation	DPF	No Change	Level 2
tblConstEquipMitigation	DPF	No Change	Level 2
tblConstEquipMitigation	DPF	No Change	Level 2
tblConstEquipMitigation	DPF	No Change	Level 2
tblConstEquipMitigation	DPF	No Change	Level 2
tblConstEquipMitigation	DPF	No Change	Level 2
tblConstEquipMitigation	DPF	No Change	Level 2
tblConstEquipMitigation	DPF	No Change	Level 2
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3

Mitigated - San Luis Ranch Project - 2018 Start - San Luis Obispo County APCD Air District, Winter

tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	20.00	185.00
tblFleetMix	FleetMixLandUseSubType	Parking Lot	Hotel
tblFleetMix	FleetMixLandUseSubType	Hotel	Parking Lot
tblFleetMix	FleetMixLandUseSubType	Single Family Housing	Regional Shopping Center
tblFleetMix	FleetMixLandUseSubType	Regional Shopping Center	Single Family Housing
tblGrading	MaterialImported	0.00	91,760.00
tblLandUse	BuildingSpaceSquareFeet	53,578.80	53,361.00
tblLandUse	LandUseSquareFeet	53,578.80	53,361.00
tblLandUse	LotAcreage	0.57	0.63
tblLandUse	LotAcreage	6.67	3.50
tblLandUse	LotAcreage	63.64	15.00
tblProjectCharacteristics	OperationalYear	2018	2020
tblVehicleTrips	ST_TR	2.46	2.68
tblVehicleTrips	ST_TR	8.19	4.86
tblVehicleTrips	ST_TR	49.97	10.38
tblVehicleTrips	ST_TR	9.91	5.29
tblVehicleTrips	SU_TR	1.05	1.14
tblVehicleTrips	SU_TR	5.95	3.53

## Mitigated - San Luis Ranch Project - 2018 Start - San Luis Obispo County APCD Air District, Winter

tblVehicleTrips	SU_TR	25.24	5.24
tblVehicleTrips	SU_TR	8.62	4.61
tblVehicleTrips	WD_TR	11.03	12.00
tblVehicleTrips	WD_TR	8.17	4.85
tblVehicleTrips	WD_TR	42.70	8.87
tblVehicleTrips	WD_TR	9.52	5.09
tblWoodstoves	WoodstoveDayYear	60.00	0.00
tblWoodstoves	WoodstoveWoodMass	2,016.00	0.00

## 2.0 Emissions Summary

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Mitigated - San Luis Ranch Project - 2018 Start - San Luis Obispo County APCD Air District, Winter

**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	21.2782	0.1879	16.2526	8.6000e-004		0.0893	0.0893		0.0893	0.0893	0.0000	29.1772	29.1772	0.0286	0.0000	29.8910
Energy	0.6058	5.3935	3.7931	0.0330		0.4185	0.4185		0.4185	0.4185		6,608.4318	6,608.4318	0.1267	0.1212	6,647.7024
Mobile	5.3483	20.9785	57.4800	0.1361	11.9424	0.1750	12.1174	3.1920	0.1649	3.3569		13,705.1778	13,705.1778	0.6332		13,721.0087
<b>Total</b>	<b>27.2322</b>	<b>26.5599</b>	<b>77.5257</b>	<b>0.1700</b>	<b>11.9424</b>	<b>0.6829</b>	<b>12.6252</b>	<b>3.1920</b>	<b>0.6727</b>	<b>3.8647</b>	<b>0.0000</b>	<b>20,342.7867</b>	<b>20,342.7867</b>	<b>0.7885</b>	<b>0.1212</b>	<b>20,398.6022</b>

**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	21.2782	0.1879	16.2526	8.6000e-004		0.0893	0.0893		0.0893	0.0893	0.0000	29.1772	29.1772	0.0286	0.0000	29.8910
Energy	0.4964	4.4202	3.1101	0.0271		0.3430	0.3430		0.3430	0.3430		5,415.6273	5,415.6273	0.1038	0.0993	5,447.8097
Mobile	5.3483	20.9785	57.4800	0.1361	11.9424	0.1750	12.1174	3.1920	0.1649	3.3569		13,705.1778	13,705.1778	0.6332		13,721.0087
<b>Total</b>	<b>27.1229</b>	<b>25.5866</b>	<b>76.8427</b>	<b>0.1641</b>	<b>11.9424</b>	<b>0.6073</b>	<b>12.5497</b>	<b>3.1920</b>	<b>0.5972</b>	<b>3.7892</b>	<b>0.0000</b>	<b>19,149.9822</b>	<b>19,149.9822</b>	<b>0.7656</b>	<b>0.0993</b>	<b>19,198.7094</b>

## Mitigated - San Luis Ranch Project - 2018 Start - San Luis Obispo County APCD Air District, Winter

	ROG	NOx	CO	SO2	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	0.40	3.66	0.88	3.51	0.00	11.06	0.60	0.00	11.23	1.95	0.00	5.86	5.86	2.90	18.04	5.88

### 3.0 Construction Detail

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#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/1/2018	1/12/2018	5	10	
2	Grading	Grading	1/13/2018	2/23/2018	5	35	
3	Building Construction	Building Construction	2/24/2018	4/19/2019	5	370	
4	Architectural Coating	Architectural Coating	9/3/2018	5/17/2019	5	185	
5	Paving	Paving	4/20/2019	5/17/2019	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 87.5

Acres of Paving: 3.33

Residential Indoor: 714,420; Residential Outdoor: 238,140; Non-Residential Indoor: 548,100; Non-Residential Outdoor: 182,700; Striped Parking Area: 8,690 (Architectural Coating – sqft)

#### OffRoad Equipment

Mitigated - San Luis Ranch Project - 2018 Start - San Luis Obispo County APCD Air District, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38

**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
Site Preparation	7	18.00	0.00	0.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	11,470.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	277.00	105.00	0.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	55.00	0.00	0.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Mitigated - San Luis Ranch Project - 2018 Start - San Luis Obispo County APCD Air District, Winter

Use Cleaner Engines for Construction Equipment

Use DPF for Construction Equipment

**3.2 Site Preparation - 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										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.5627	48.1988	22.4763	0.0380		2.5769	2.5769		2.3708	2.3708		3,831.6239	3,831.6239	1.1928		3,861.4448
<b>Total</b>	<b>4.5627</b>	<b>48.1988</b>	<b>22.4763</b>	<b>0.0380</b>	<b>18.0663</b>	<b>2.5769</b>	<b>20.6432</b>	<b>9.9307</b>	<b>2.3708</b>	<b>12.3014</b>		<b>3,831.6239</b>	<b>3,831.6239</b>	<b>1.1928</b>		<b>3,861.4448</b>



Mitigated - San Luis Ranch Project - 2018 Start - San Luis Obispo County APCD Air District, Winter

**3.2 Site Preparation - 2018**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1070	0.0946	0.8091	1.7000e-003	0.1780	1.2200e-003	0.1792	0.0472	1.1200e-003	0.0483		168.5325	168.5325	7.0000e-003		168.7073
<b>Total</b>	<b>0.1070</b>	<b>0.0946</b>	<b>0.8091</b>	<b>1.7000e-003</b>	<b>0.1780</b>	<b>1.2200e-003</b>	<b>0.1792</b>	<b>0.0472</b>	<b>1.1200e-003</b>	<b>0.0483</b>		<b>168.5325</b>	<b>168.5325</b>	<b>7.0000e-003</b>		<b>168.7073</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	0.9312	19.0656	22.9600	0.0380		0.4731	0.4731		0.4731	0.4731	0.0000	3,831.6239	3,831.6239	1.1928		3,861.4448
<b>Total</b>	<b>0.9312</b>	<b>19.0656</b>	<b>22.9600</b>	<b>0.0380</b>	<b>18.0663</b>	<b>0.4731</b>	<b>18.5393</b>	<b>9.9307</b>	<b>0.4731</b>	<b>10.4038</b>	<b>0.0000</b>	<b>3,831.6239</b>	<b>3,831.6239</b>	<b>1.1928</b>		<b>3,861.4448</b>

Mitigated - San Luis Ranch Project - 2018 Start - San Luis Obispo County APCD Air District, Winter

**3.2 Site Preparation - 2018**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1070	0.0946	0.8091	1.7000e-003	0.1780	1.2200e-003	0.1792	0.0472	1.1200e-003	0.0483		168.5325	168.5325	7.0000e-003		168.7073
<b>Total</b>	<b>0.1070</b>	<b>0.0946</b>	<b>0.8091</b>	<b>1.7000e-003</b>	<b>0.1780</b>	<b>1.2200e-003</b>	<b>0.1792</b>	<b>0.0472</b>	<b>1.1200e-003</b>	<b>0.0483</b>		<b>168.5325</b>	<b>168.5325</b>	<b>7.0000e-003</b>		<b>168.7073</b>

**3.3 Grading - 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										lb/day					
Fugitive Dust					9.1559	0.0000	9.1559	3.6696	0.0000	3.6696			0.0000			0.0000
Off-Road	5.0901	59.5218	35.0894	0.0620		2.6337	2.6337		2.4230	2.4230		6,244.4284	6,244.4284	1.9440		6,293.0278
<b>Total</b>	<b>5.0901</b>	<b>59.5218</b>	<b>35.0894</b>	<b>0.0620</b>	<b>9.1559</b>	<b>2.6337</b>	<b>11.7896</b>	<b>3.6696</b>	<b>2.4230</b>	<b>6.0926</b>		<b>6,244.4284</b>	<b>6,244.4284</b>	<b>1.9440</b>		<b>6,293.0278</b>

Mitigated - San Luis Ranch Project - 2018 Start - San Luis Obispo County APCD Air District, Winter

**3.3 Grading - 2018**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	3.9377	121.0318	28.6781	0.2612	6.4360	0.9000	7.3360	1.7422	0.8610	2.6032		28,053.5166	28,053.5166	1.6194		28,094.0023
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	0.1189	0.1051	0.8989	1.8800e-003	0.1977	1.3500e-003	0.1991	0.0524	1.2500e-003	0.0537		187.2583	187.2583	7.7700e-003		187.4526
<b>Total</b>	<b>4.0566</b>	<b>121.1369</b>	<b>29.5770</b>	<b>0.2631</b>	<b>6.6338</b>	<b>0.9013</b>	<b>7.5351</b>	<b>1.7946</b>	<b>0.8623</b>	<b>2.6569</b>		<b>28,240.7749</b>	<b>28,240.7749</b>	<b>1.6272</b>		<b>28,281.4549</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.1559	0.0000	9.1559	3.6696	0.0000	3.6696			0.0000			0.0000
Off-Road	1.5231	29.9782	36.7226	0.0620		0.6497	0.6497		0.6497	0.6497	0.0000	6,244.4284	6,244.4284	1.9440		6,293.0278
<b>Total</b>	<b>1.5231</b>	<b>29.9782</b>	<b>36.7226</b>	<b>0.0620</b>	<b>9.1559</b>	<b>0.6497</b>	<b>9.8056</b>	<b>3.6696</b>	<b>0.6497</b>	<b>4.3193</b>	<b>0.0000</b>	<b>6,244.4284</b>	<b>6,244.4284</b>	<b>1.9440</b>		<b>6,293.0278</b>

Mitigated - San Luis Ranch Project - 2018 Start - San Luis Obispo County APCD Air District, Winter

**3.3 Grading - 2018**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	3.9377	121.0318	28.6781	0.2612	6.4360	0.9000	7.3360	1.7422	0.8610	2.6032		28,053.5166	28,053.5166	1.6194		28,094.0023
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	0.1189	0.1051	0.8989	1.8800e-003	0.1977	1.3500e-003	0.1991	0.0524	1.2500e-003	0.0537		187.2583	187.2583	7.7700e-003		187.4526
<b>Total</b>	<b>4.0566</b>	<b>121.1369</b>	<b>29.5770</b>	<b>0.2631</b>	<b>6.6338</b>	<b>0.9013</b>	<b>7.5351</b>	<b>1.7946</b>	<b>0.8623</b>	<b>2.6569</b>		<b>28,240.7749</b>	<b>28,240.7749</b>	<b>1.6272</b>		<b>28,281.4549</b>

**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										lb/day					
Off-Road	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099		2,620.9351	2,620.9351	0.6421		2,636.9883
<b>Total</b>	<b>2.6795</b>	<b>23.3900</b>	<b>17.5804</b>	<b>0.0269</b>		<b>1.4999</b>	<b>1.4999</b>		<b>1.4099</b>	<b>1.4099</b>		<b>2,620.9351</b>	<b>2,620.9351</b>	<b>0.6421</b>		<b>2,636.9883</b>

Mitigated - San Luis Ranch Project - 2018 Start - San Luis Obispo County APCD Air District, Winter

**3.4 Building Construction - 2018**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.5809	12.4291	4.4864	0.0207	0.4872	0.1186	0.6058	0.1403	0.1134	0.2537		2,198.4920	2,198.4920	0.1535			2,202.3301
Worker	1.6464	1.4551	12.4504	0.0261	2.7385	0.0187	2.7572	0.7263	0.0173	0.7436		2,593.5272	2,593.5272	0.1077			2,596.2185
<b>Total</b>	<b>2.2273</b>	<b>13.8842</b>	<b>16.9368</b>	<b>0.0468</b>	<b>3.2257</b>	<b>0.1373</b>	<b>3.3630</b>	<b>0.8666</b>	<b>0.1307</b>	<b>0.9973</b>		<b>4,792.0192</b>	<b>4,792.0192</b>	<b>0.2612</b>			<b>4,798.5486</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	0.6739	14.2261	17.8738	0.0269		0.4518	0.4518		0.4518	0.4518	0.0000	2,620.9351	2,620.9351	0.6421			2,636.9883
<b>Total</b>	<b>0.6739</b>	<b>14.2261</b>	<b>17.8738</b>	<b>0.0269</b>		<b>0.4518</b>	<b>0.4518</b>		<b>0.4518</b>	<b>0.4518</b>	<b>0.0000</b>	<b>2,620.9351</b>	<b>2,620.9351</b>	<b>0.6421</b>			<b>2,636.9883</b>

Mitigated - San Luis Ranch Project - 2018 Start - San Luis Obispo County APCD Air District, Winter

**3.4 Building Construction - 2018**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.5809	12.4291	4.4864	0.0207	0.4872	0.1186	0.6058	0.1403	0.1134	0.2537		2,198.4920	2,198.4920	0.1535		2,202.3301
Worker	1.6464	1.4551	12.4504	0.0261	2.7385	0.0187	2.7572	0.7263	0.0173	0.7436		2,593.5272	2,593.5272	0.1077		2,596.2185
<b>Total</b>	<b>2.2273</b>	<b>13.8842</b>	<b>16.9368</b>	<b>0.0468</b>	<b>3.2257</b>	<b>0.1373</b>	<b>3.3630</b>	<b>0.8666</b>	<b>0.1307</b>	<b>0.9973</b>		<b>4,792.0192</b>	<b>4,792.0192</b>	<b>0.2612</b>		<b>4,798.5486</b>

**3.4 Building Construction - 2019**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127		2,591.5802	2,591.5802	0.6313		2,607.3635
<b>Total</b>	<b>2.3612</b>	<b>21.0788</b>	<b>17.1638</b>	<b>0.0269</b>		<b>1.2899</b>	<b>1.2899</b>		<b>1.2127</b>	<b>1.2127</b>		<b>2,591.5802</b>	<b>2,591.5802</b>	<b>0.6313</b>		<b>2,607.3635</b>

Mitigated - San Luis Ranch Project - 2018 Start - San Luis Obispo County APCD Air District, Winter

**3.4 Building Construction - 2019**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.5054	11.8154	3.9662	0.0206	0.4873	0.0974	0.5847	0.1403	0.0932	0.2335		2,191.5754	2,191.5754	0.1483		2,195.2818
Worker	1.4804	1.2739	10.8880	0.0253	2.7385	0.0181	2.7566	0.7263	0.0167	0.7430		2,517.2508	2,517.2508	0.0945		2,519.6131
<b>Total</b>	<b>1.9858</b>	<b>13.0893</b>	<b>14.8542</b>	<b>0.0459</b>	<b>3.2258</b>	<b>0.1155</b>	<b>3.3412</b>	<b>0.8666</b>	<b>0.1099</b>	<b>0.9765</b>		<b>4,708.8263</b>	<b>4,708.8263</b>	<b>0.2427</b>		<b>4,714.8949</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6739	14.2261	17.8738	0.0269		0.4518	0.4518		0.4518	0.4518	0.0000	2,591.5802	2,591.5802	0.6313		2,607.3635
<b>Total</b>	<b>0.6739</b>	<b>14.2261</b>	<b>17.8738</b>	<b>0.0269</b>		<b>0.4518</b>	<b>0.4518</b>		<b>0.4518</b>	<b>0.4518</b>	<b>0.0000</b>	<b>2,591.5802</b>	<b>2,591.5802</b>	<b>0.6313</b>		<b>2,607.3635</b>

Mitigated - San Luis Ranch Project - 2018 Start - San Luis Obispo County APCD Air District, Winter

**3.4 Building Construction - 2019**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.5054	11.8154	3.9662	0.0206	0.4873	0.0974	0.5847	0.1403	0.0932	0.2335		2,191.5754	2,191.5754	0.1483		2,195.2818
Worker	1.4804	1.2739	10.8880	0.0253	2.7385	0.0181	2.7566	0.7263	0.0167	0.7430		2,517.2508	2,517.2508	0.0945		2,519.6131
<b>Total</b>	<b>1.9858</b>	<b>13.0893</b>	<b>14.8542</b>	<b>0.0459</b>	<b>3.2258</b>	<b>0.1155</b>	<b>3.3412</b>	<b>0.8666</b>	<b>0.1099</b>	<b>0.9765</b>		<b>4,708.8263</b>	<b>4,708.8263</b>	<b>0.2427</b>		<b>4,714.8949</b>

**3.5 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	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	21.1964					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2986	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506		281.4485	281.4485	0.0267		282.1171
<b>Total</b>	<b>21.4950</b>	<b>2.0058</b>	<b>1.8542</b>	<b>2.9700e-003</b>		<b>0.1506</b>	<b>0.1506</b>		<b>0.1506</b>	<b>0.1506</b>		<b>281.4485</b>	<b>281.4485</b>	<b>0.0267</b>		<b>282.1171</b>



Mitigated - San Luis Ranch Project - 2018 Start - San Luis Obispo County APCD Air District, Winter

**3.5 Architectural Coating - 2018**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.3269	0.2889	2.4721	5.1800e-003	0.5437	3.7200e-003	0.5475	0.1442	3.4400e-003	0.1477		514.9603	514.9603	0.0214		515.4947
<b>Total</b>	<b>0.3269</b>	<b>0.2889</b>	<b>2.4721</b>	<b>5.1800e-003</b>	<b>0.5437</b>	<b>3.7200e-003</b>	<b>0.5475</b>	<b>0.1442</b>	<b>3.4400e-003</b>	<b>0.1477</b>		<b>514.9603</b>	<b>514.9603</b>	<b>0.0214</b>		<b>515.4947</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	21.1964					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0594	1.3570	1.8324	2.9700e-003		0.0475	0.0475		0.0475	0.0475	0.0000	281.4485	281.4485	0.0267		282.1171
<b>Total</b>	<b>21.2558</b>	<b>1.3570</b>	<b>1.8324</b>	<b>2.9700e-003</b>		<b>0.0475</b>	<b>0.0475</b>		<b>0.0475</b>	<b>0.0475</b>	<b>0.0000</b>	<b>281.4485</b>	<b>281.4485</b>	<b>0.0267</b>		<b>282.1171</b>

Mitigated - San Luis Ranch Project - 2018 Start - San Luis Obispo County APCD Air District, Winter

**3.5 Architectural Coating - 2018**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.3269	0.2889	2.4721	5.1800e-003	0.5437	3.7200e-003	0.5475	0.1442	3.4400e-003	0.1477		514.9603	514.9603	0.0214		515.4947
<b>Total</b>	<b>0.3269</b>	<b>0.2889</b>	<b>2.4721</b>	<b>5.1800e-003</b>	<b>0.5437</b>	<b>3.7200e-003</b>	<b>0.5475</b>	<b>0.1442</b>	<b>3.4400e-003</b>	<b>0.1477</b>		<b>514.9603</b>	<b>514.9603</b>	<b>0.0214</b>		<b>515.4947</b>

**3.5 Architectural Coating - 2019**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	21.1964					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2664	1.8354	1.8413	2.9700e-003		0.1288	0.1288		0.1288	0.1288		281.4481	281.4481	0.0238		282.0423
<b>Total</b>	<b>21.4628</b>	<b>1.8354</b>	<b>1.8413</b>	<b>2.9700e-003</b>		<b>0.1288</b>	<b>0.1288</b>		<b>0.1288</b>	<b>0.1288</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0238</b>		<b>282.0423</b>

Mitigated - San Luis Ranch Project - 2018 Start - San Luis Obispo County APCD Air District, Winter

**3.5 Architectural Coating - 2019**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2939	0.2529	2.1619	5.0200e-003	0.5437	3.6000e-003	0.5473	0.1442	3.3200e-003	0.1475		499.8152	499.8152	0.0188		500.2842
<b>Total</b>	<b>0.2939</b>	<b>0.2529</b>	<b>2.1619</b>	<b>5.0200e-003</b>	<b>0.5437</b>	<b>3.6000e-003</b>	<b>0.5473</b>	<b>0.1442</b>	<b>3.3200e-003</b>	<b>0.1475</b>		<b>499.8152</b>	<b>499.8152</b>	<b>0.0188</b>		<b>500.2842</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	21.1964					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0594	1.3570	1.8324	2.9700e-003		0.0475	0.0475		0.0475	0.0475	0.0000	281.4481	281.4481	0.0238		282.0423
<b>Total</b>	<b>21.2558</b>	<b>1.3570</b>	<b>1.8324</b>	<b>2.9700e-003</b>		<b>0.0475</b>	<b>0.0475</b>		<b>0.0475</b>	<b>0.0475</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0238</b>		<b>282.0423</b>

Mitigated - San Luis Ranch Project - 2018 Start - San Luis Obispo County APCD Air District, Winter

**3.5 Architectural Coating - 2019**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2939	0.2529	2.1619	5.0200e-003	0.5437	3.6000e-003	0.5473	0.1442	3.3200e-003	0.1475		499.8152	499.8152	0.0188		500.2842
<b>Total</b>	<b>0.2939</b>	<b>0.2529</b>	<b>2.1619</b>	<b>5.0200e-003</b>	<b>0.5437</b>	<b>3.6000e-003</b>	<b>0.5473</b>	<b>0.1442</b>	<b>3.3200e-003</b>	<b>0.1475</b>		<b>499.8152</b>	<b>499.8152</b>	<b>0.0188</b>		<b>500.2842</b>

**3.6 Paving - 2019**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4544	15.2441	14.6648	0.0228		0.8246	0.8246		0.7586	0.7586		2,257.0025	2,257.0025	0.7141		2,274.8548
Paving	0.4362					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.8907</b>	<b>15.2441</b>	<b>14.6648</b>	<b>0.0228</b>		<b>0.8246</b>	<b>0.8246</b>		<b>0.7586</b>	<b>0.7586</b>		<b>2,257.0025</b>	<b>2,257.0025</b>	<b>0.7141</b>		<b>2,274.8548</b>

Mitigated - San Luis Ranch Project - 2018 Start - San Luis Obispo County APCD Air District, Winter

**3.6 Paving - 2019**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0802	0.0690	0.5896	1.3700e-003	0.1483	9.8000e-004	0.1493	0.0393	9.1000e-004	0.0402		136.3132	136.3132	5.1200e-003		136.4411
<b>Total</b>	<b>0.0802</b>	<b>0.0690</b>	<b>0.5896</b>	<b>1.3700e-003</b>	<b>0.1483</b>	<b>9.8000e-004</b>	<b>0.1493</b>	<b>0.0393</b>	<b>9.1000e-004</b>	<b>0.0402</b>		<b>136.3132</b>	<b>136.3132</b>	<b>5.1200e-003</b>		<b>136.4411</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5609	11.2952	17.2957	0.0228		0.3047	0.3047		0.3047	0.3047	0.0000	2,257.0025	2,257.0025	0.7141		2,274.8548
Paving	0.4362					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.9972</b>	<b>11.2952</b>	<b>17.2957</b>	<b>0.0228</b>		<b>0.3047</b>	<b>0.3047</b>		<b>0.3047</b>	<b>0.3047</b>	<b>0.0000</b>	<b>2,257.0025</b>	<b>2,257.0025</b>	<b>0.7141</b>		<b>2,274.8548</b>

Mitigated - San Luis Ranch Project - 2018 Start - San Luis Obispo County APCD Air District, Winter

**3.6 Paving - 2019**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0802	0.0690	0.5896	1.3700e-003	0.1483	9.8000e-004	0.1493	0.0393	9.1000e-004	0.0402		136.3132	136.3132	5.1200e-003		136.4411
<b>Total</b>	<b>0.0802</b>	<b>0.0690</b>	<b>0.5896</b>	<b>1.3700e-003</b>	<b>0.1483</b>	<b>9.8000e-004</b>	<b>0.1493</b>	<b>0.0393</b>	<b>9.1000e-004</b>	<b>0.0402</b>		<b>136.3132</b>	<b>136.3132</b>	<b>5.1200e-003</b>		<b>136.4411</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

Mitigated - San Luis Ranch Project - 2018 Start - San Luis Obispo County APCD Air District, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	5.3483	20.9785	57.4800	0.1361	11.9424	0.1750	12.1174	3.1920	0.1649	3.3569		13,705.1778	13,705.1778	0.6332		13,721.0087
Unmitigated	5.3483	20.9785	57.4800	0.1361	11.9424	0.1750	12.1174	3.1920	0.1649	3.3569		13,705.1778	13,705.1778	0.6332		13,721.0087

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	300.00	67.00	28.50	518,513	518,513
Hotel	970.00	972.00	706.00	1,502,636	1,502,636
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Regional Shopping Center	443.50	519.00	262.00	618,505	618,505
Single Family Housing	997.64	1,036.84	903.56	2,515,633	2,515,633
Total	2,711.14	2,594.84	1,900.06	5,155,287	5,155,287

4.3 Trip Type Information

Mitigated - San Luis Ranch Project - 2018 Start - San Luis Obispo County APCD Air District, Winter

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
General Office Building	13.00	5.00	5.00	33.00	48.00	19.00	77	19	4
Hotel	13.00	5.00	5.00	19.40	61.60	19.00	58	38	4
Parking Lot	13.00	5.00	5.00	0.00	0.00	0.00	0	0	0
Parking Lot	13.00	5.00	5.00	0.00	0.00	0.00	0	0	0
Regional Shopping Center	13.00	5.00	5.00	16.30	64.70	19.00	54	35	11
Single Family Housing	13.00	5.00	5.00	35.80	21.00	43.20	86	11	3

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	0.559162	0.032279	0.198583	0.128083	0.030808	0.007362	0.013004	0.019140	0.002385	0.001267	0.005421	0.000811	0.001695
Hotel	0.559162	0.032279	0.198583	0.128083	0.030808	0.007362	0.013004	0.019140	0.002385	0.001267	0.005421	0.000811	0.001695
Parking Lot	0.559162	0.032279	0.198583	0.128083	0.030808	0.007362	0.013004	0.019140	0.002385	0.001267	0.005421	0.000811	0.001695
Parking Lot	0.559162	0.032279	0.198583	0.128083	0.030808	0.007362	0.013004	0.019140	0.002385	0.001267	0.005421	0.000811	0.001695
Regional Shopping Center	0.559162	0.032279	0.198583	0.128083	0.030808	0.007362	0.013004	0.019140	0.002385	0.001267	0.005421	0.000811	0.001695
Single Family Housing	0.559162	0.032279	0.198583	0.128083	0.030808	0.007362	0.013004	0.019140	0.002385	0.001267	0.005421	0.000811	0.001695

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

Exceed Title 24

Install Energy Efficient Appliances



Mitigated - San Luis Ranch Project - 2018 Start - San Luis Obispo County APCD Air District, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.4964	4.4202	3.1101	0.0271		0.3430	0.3430		0.3430	0.3430		5,415.6273	5,415.6273	0.1038	0.0993	5,447.8097
NaturalGas Unmitigated	0.6058	5.3935	3.7931	0.0330		0.4185	0.4185		0.4185	0.4185		6,608.4318	6,608.4318	0.1267	0.1212	6,647.7024

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Office Building	1126.71	0.0122	0.1105	0.0928	6.6000e-004		8.4000e-003	8.4000e-003		8.4000e-003	8.4000e-003		132.5544	132.5544	2.5400e-003	2.4300e-003	133.3421
Hotel	35412.9	0.3819	3.4719	2.9164	0.0208		0.2639	0.2639		0.2639	0.2639		4,166.2221	4,166.2221	0.0799	0.0764	4,190.9799
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	326.027	3.5200e-003	0.0320	0.0269	1.9000e-004		2.4300e-003	2.4300e-003		2.4300e-003	2.4300e-003		38.3562	38.3562	7.4000e-004	7.0000e-004	38.5841
Single Family Housing	19306	0.2082	1.7792	0.7571	0.0114		0.1439	0.1439		0.1439	0.1439		2,271.2992	2,271.2992	0.0435	0.0416	2,284.7964
<b>Total</b>		<b>0.6058</b>	<b>5.3935</b>	<b>3.7931</b>	<b>0.0330</b>		<b>0.4185</b>	<b>0.4185</b>		<b>0.4185</b>	<b>0.4185</b>		<b>6,608.4318</b>	<b>6,608.4318</b>	<b>0.1267</b>	<b>0.1212</b>	<b>6,647.7024</b>

Mitigated - San Luis Ranch Project - 2018 Start - San Luis Obispo County APCD Air District, Winter

**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					
General Office Building	0.902192	9.7300e-003	0.0885	0.0743	5.3000e-004		6.7200e-003	6.7200e-003		6.7200e-003	6.7200e-003		106.1402	106.1402	2.0300e-003	1.9500e-003	106.7710
Hotel	29.0861	0.3137	2.8516	2.3953	0.0171		0.2167	0.2167		0.2167	0.2167		3,421.8995	3,421.8995	0.0656	0.0627	3,442.2341
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	0.260822	2.8100e-003	0.0256	0.0215	1.5000e-004		1.9400e-003	1.9400e-003		1.9400e-003	1.9400e-003		30.6849	30.6849	5.9000e-004	5.6000e-004	30.8673
Single Family Housing	15.7837	0.1702	1.4546	0.6190	9.2800e-003		0.1176	0.1176		0.1176	0.1176		1,856.9027	1,856.9027	0.0356	0.0340	1,867.9373
<b>Total</b>		<b>0.4964</b>	<b>4.4202</b>	<b>3.1101</b>	<b>0.0271</b>		<b>0.3430</b>	<b>0.3430</b>		<b>0.3430</b>	<b>0.3430</b>		<b>5,415.6273</b>	<b>5,415.6273</b>	<b>0.1038</b>	<b>0.0993</b>	<b>5,447.8097</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

No Hearths Installed

Mitigated - San Luis Ranch Project - 2018 Start - San Luis Obispo County APCD Air District, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	21.2782	0.1879	16.2526	8.6000e-004		0.0893	0.0893		0.0893	0.0893	0.0000	29.1772	29.1772	0.0286	0.0000	29.8910
Unmitigated	21.2782	0.1879	16.2526	8.6000e-004		0.0893	0.0893		0.0893	0.0893	0.0000	29.1772	29.1772	0.0286	0.0000	29.8910

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	5.3606					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	15.4208					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.4967	0.1879	16.2526	8.6000e-004		0.0893	0.0893		0.0893	0.0893		29.1772	29.1772	0.0286		29.8910
<b>Total</b>	<b>21.2782</b>	<b>0.1879</b>	<b>16.2526</b>	<b>8.6000e-004</b>		<b>0.0893</b>	<b>0.0893</b>		<b>0.0893</b>	<b>0.0893</b>	<b>0.0000</b>	<b>29.1772</b>	<b>29.1772</b>	<b>0.0286</b>	<b>0.0000</b>	<b>29.8910</b>

Mitigated - San Luis Ranch Project - 2018 Start - San Luis Obispo County APCD Air District, Winter

**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	5.3606					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	15.4208					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.4967	0.1879	16.2526	8.6000e-004		0.0893	0.0893		0.0893	0.0893		29.1772	29.1772	0.0286		29.8910
<b>Total</b>	<b>21.2782</b>	<b>0.1879</b>	<b>16.2526</b>	<b>8.6000e-004</b>		<b>0.0893</b>	<b>0.0893</b>		<b>0.0893</b>	<b>0.0893</b>	<b>0.0000</b>	<b>29.1772</b>	<b>29.1772</b>	<b>0.0286</b>	<b>0.0000</b>	<b>29.8910</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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

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Mitigated - San Luis Ranch Project - 2018 Start - San Luis Obispo County APCD Air District, Winter

**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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**11.0 Vegetation**

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Mitigated - San Luis Ranch Project - 2018 Start - San Luis Obispo County APCD Air District, Summary Report

**Mitigated - San Luis Ranch Project - 2018 Start**  
**San Luis Obispo County APCD, Summary Report**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	25.00	1000sqft	0.63	25,000.00	0
Parking Lot	2.10	Acre	2.10	91,476.00	0
Parking Lot	1.23	Acre	1.23	53,361.00	0
Hotel	200.00	Room	3.50	290,400.00	0
Single Family Housing	196.00	Dwelling Unit	15.00	352,800.00	561
Regional Shopping Center	50.00	1000sqft	1.15	50,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	3.2	<b>Precipitation Freq (Days)</b>	44
<b>Climate Zone</b>	4			<b>Operational Year</b>	2020
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MW hr)</b>	641.35	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

**1.3 User Entered Comments**

Only CalEEMod defaults were used.

## Mitigated - San Luis Ranch Project - 2018 Start - San Luis Obispo County APCD Air District, Summary Report

## Project Characteristics -

Land Use - Land use values from buildout and phasing in Specific Plan Section 7.7. Includes portions of Phases 1, 2, 4, 5, and 6.

Construction Phase - No demolition in phases 1, 2, 4, 5 and 6. AC expected to overlap with half of building construction as painting would occur as buildings are finished.

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Demolition -

Grading - Total import proportionally distributed by phase acreage.

Architectural Coating - Per MM AQ-2

Vehicle Trips - Trip generation rate based on Omni-Means 2016 Traffic Impact Study.

Woodstoves - Per MM AQ-3

Construction Off-road Equipment Mitigation - Per MM AQ-2

Mobile Land Use Mitigation - Trip reductions from project's density, diversity, and access to alternative transportation accounted for in trip generation rates.

Area Mitigation - Per MM AQ-3

Energy Mitigation - Per Specific Plan, appliances will be energy efficient. Exceed Title 24 per MM AQ-3

Water Mitigation -

## 2.0 Peak Daily Emissions

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### Peak Daily Construction Emissions

#### Peak Daily Construction Emissions







Mitigated - San Luis Ranch Project - 2019 Start - San Luis Obispo County APCD Air District, Annual

**Mitigated - San Luis Ranch Project - 2019 Start**  
**San Luis Obispo County APCD Air District, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	25.00	1000sqft	0.63	25,000.00	0
Parking Lot	1.90	Acre	1.90	82,764.00	0
Parking Lot	1.80	Acre	1.80	78,408.00	0
Parking Lot	0.70	Acre	0.70	30,492.00	0
City Park	5.80	Acre	5.80	252,648.00	0
Apartments Mid Rise	197.00	Dwelling Unit	7.20	197,000.00	563
Single Family Housing	18.00	Dwelling Unit	9.10	32,400.00	51
Regional Shopping Center	25.00	1000sqft	0.57	25,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	3.2	<b>Precipitation Freq (Days)</b>	44
<b>Climate Zone</b>	4			<b>Operational Year</b>	2022
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MW hr)</b>	641.35	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

**1.3 User Entered Comments & Non-Default Data**

Mitigated - San Luis Ranch Project - 2019 Start - San Luis Obispo County APCD Air District, Annual

Project Characteristics -

Land Use - Land use values from buildout and phasing in Specific Plan Section 7.7. Includes portions of Phases 1, 2, 3, 5, and 6; and Dalidio improvements.

Construction Phase - No demolition in phases 1, 2, 4, 5 and 6. AC expected to overlap with half of building construction as painting would occur as buildings are finished.

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Demolition - Building sf estimated using Google Earth

Grading - Total import proportionally distributed by phase acreage.

Architectural Coating - Per MM AQ-2

Vehicle Trips - Trip generation rate based on Omni-Means 2016 Traffic Impact Study.

Woodstoves - PEr MM AQ-3

Construction Off-road Equipment Mitigation - per MM AQ-2

Mobile Land Use Mitigation - Trip reductions from project's density, diversity, and access to alternative transportation accounted for in trip generation rates.

Area Mitigation - Per MM AQ-3

Energy Mitigation - Per Specific Plan, appliances will be energy efficient. Exceed Title 24 per MM AQ-3

Water Mitigation - Total outdoor water use for these land uses = 20.7 Mgal, with park at 6.9 Mgal; Park using reclaimed = 33% of total.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	50.00
tblArchitecturalCoating	EF_Parking	150.00	50.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	50.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	50.00
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	0
tblConstEquipMitigation	DPF	No Change	Level 2
tblConstEquipMitigation	DPF	No Change	Level 2
tblConstEquipMitigation	DPF	No Change	Level 2

Mitigated - San Luis Ranch Project - 2019 Start - San Luis Obispo County APCD Air District, Annual

tblConstEquipMitigation	DPF	No Change	Level 2
tblConstEquipMitigation	DPF	No Change	Level 2
tblConstEquipMitigation	DPF	No Change	Level 2
tblConstEquipMitigation	DPF	No Change	Level 2
tblConstEquipMitigation	DPF	No Change	Level 2
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tblConstEquipMitigation	DPF	No Change	Level 2
tblConstEquipMitigation	DPF	No Change	Level 2
tblConstEquipMitigation	DPF	No Change	Level 2
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tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
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tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
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tblConstEquipMitigation	Tier	No Change	Tier 3

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tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
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tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	35.00	220.00
tblGrading	MaterialImported	0.00	84,320.00
tblLandUse	LotAcreage	0.57	0.63
tblLandUse	LotAcreage	5.18	7.20
tblLandUse	LotAcreage	5.84	9.10
tblProjectCharacteristics	OperationalYear	2018	2022
tblVehicleTrips	ST_TR	6.39	5.29
tblVehicleTrips	ST_TR	22.75	0.00
tblVehicleTrips	ST_TR	2.46	2.68
tblVehicleTrips	ST_TR	49.97	10.38
tblVehicleTrips	ST_TR	9.91	5.29
tblVehicleTrips	SU_TR	5.86	4.61
tblVehicleTrips	SU_TR	16.74	0.00
tblVehicleTrips	SU_TR	1.05	1.14
tblVehicleTrips	SU_TR	25.24	5.24

## Mitigated - San Luis Ranch Project - 2019 Start - San Luis Obispo County APCD Air District, Annual

tblVehicleTrips	SU_TR	8.62	4.61
tblVehicleTrips	WD_TR	6.65	5.09
tblVehicleTrips	WD_TR	1.89	0.00
tblVehicleTrips	WD_TR	11.03	12.00
tblVehicleTrips	WD_TR	42.70	8.87
tblVehicleTrips	WD_TR	9.52	5.09
tblWoodstoves	WoodstoveDayYear	60.00	0.00
tblWoodstoves	WoodstoveDayYear	60.00	0.00
tblWoodstoves	WoodstoveWoodMass	2,016.00	0.00
tblWoodstoves	WoodstoveWoodMass	2,016.00	0.00

## 2.0 Emissions Summary

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Mitigated - San Luis Ranch Project - 2019 Start - San Luis Obispo County APCD Air District, Annual

**2.1 Overall Construction**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2019	0.6377	6.9536	4.6124	0.0133	0.8109	0.2324	1.0433	0.2957	0.2170	0.5126	0.0000	1,234.1606	1,234.1606	0.1558	0.0000	1,238.0562
2020	1.2429	4.2840	4.5851	0.0111	0.5628	0.1670	0.7298	0.1510	0.1576	0.3086	0.0000	1,006.7069	1,006.7069	0.1053	0.0000	1,009.3392
2021	0.2435	0.4402	0.5411	1.1000e-003	0.0415	0.0202	0.0617	0.0111	0.0189	0.0300	0.0000	98.0959	98.0959	0.0168	0.0000	98.5146
<b>Maximum</b>	<b>1.2429</b>	<b>6.9536</b>	<b>4.6124</b>	<b>0.0133</b>	<b>0.8109</b>	<b>0.2324</b>	<b>1.0433</b>	<b>0.2957</b>	<b>0.2170</b>	<b>0.5126</b>	<b>0.0000</b>	<b>1,234.1606</b>	<b>1,234.1606</b>	<b>0.1558</b>	<b>0.0000</b>	<b>1,238.0562</b>

**Mitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2019	0.3525	5.3055	4.7948	0.0133	0.8109	0.0843	0.8952	0.2957	0.0833	0.3789	0.0000	1,234.1601	1,234.1601	0.1558	0.0000	1,238.0557
2020	1.0376	3.6059	4.7195	0.0111	0.5628	0.0743	0.6372	0.1510	0.0737	0.2247	0.0000	1,006.7065	1,006.7065	0.1053	0.0000	1,009.3389
2021	0.2202	0.3886	0.5955	1.1000e-003	0.0415	9.5700e-003	0.0511	0.0111	9.5500e-003	0.0206	0.0000	98.0959	98.0959	0.0168	0.0000	98.5145
<b>Maximum</b>	<b>1.0376</b>	<b>5.3055</b>	<b>4.7948</b>	<b>0.0133</b>	<b>0.8109</b>	<b>0.0843</b>	<b>0.8952</b>	<b>0.2957</b>	<b>0.0833</b>	<b>0.3789</b>	<b>0.0000</b>	<b>1,234.1601</b>	<b>1,234.1601</b>	<b>0.1558</b>	<b>0.0000</b>	<b>1,238.0557</b>

## Mitigated - San Luis Ranch Project - 2019 Start - San Luis Obispo County APCD Air District, Annual

	ROG	NOx	CO	SO2	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	24.19	20.36	-3.81	0.00	0.00	59.93	13.71	0.00	57.67	26.66	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-1-2019	3-31-2019	2.1295	1.3312
2	4-1-2019	6-30-2019	2.8516	2.2789
3	7-1-2019	9-30-2019	1.2726	0.9920
4	10-1-2019	12-31-2019	1.2858	1.0052
5	1-1-2020	3-31-2020	1.1543	0.9461
6	4-1-2020	6-30-2020	1.3501	1.1316
7	7-1-2020	9-30-2020	1.4899	1.2627
8	10-1-2020	12-31-2020	1.5038	1.2766
9	1-1-2021	3-31-2021	0.7033	0.6263
		Highest	2.8516	2.2789



Mitigated - San Luis Ranch Project - 2019 Start - San Luis Obispo County APCD Air District, Annual

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.6153	0.0338	2.9309	1.5000e-004		0.0162	0.0162		0.0162	0.0162	0.0000	4.7827	4.7827	4.6200e-003	0.0000	4.8982
Energy	0.0178	0.1534	0.0748	9.7000e-004		0.0123	0.0123		0.0123	0.0123	0.0000	735.3627	735.3627	0.0287	8.4600e-003	738.6004
Mobile	0.4526	1.9214	5.0764	0.0147	1.3472	0.0152	1.3623	0.3607	0.0142	0.3749	0.0000	1,346.4177	1,346.4177	0.0537	0.0000	1,347.7604
Waste						0.0000	0.0000		0.0000	0.0000	32.7891	0.0000	32.7891	1.9378	0.0000	81.2337
Water						0.0000	0.0000		0.0000	0.0000	6.4413	51.9165	58.3578	0.6639	0.0161	79.7559
<b>Total</b>	<b>2.0857</b>	<b>2.1085</b>	<b>8.0821</b>	<b>0.0158</b>	<b>1.3472</b>	<b>0.0437</b>	<b>1.3908</b>	<b>0.3607</b>	<b>0.0427</b>	<b>0.4034</b>	<b>39.2304</b>	<b>2,138.4796</b>	<b>2,177.7100</b>	<b>2.6887</b>	<b>0.0246</b>	<b>2,252.2485</b>

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**2.2 Overall Operational**

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.6153	0.0338	2.9309	1.5000e-004		0.0162	0.0162		0.0162	0.0162	0.0000	4.7827	4.7827	4.6200e-003	0.0000	4.8982
Energy	0.0150	0.1290	0.0625	8.2000e-004		0.0103	0.0103		0.0103	0.0103	0.0000	682.0524	682.0524	0.0270	7.7100e-003	685.0246
Mobile	0.4526	1.9214	5.0764	0.0147	1.3472	0.0152	1.3623	0.3607	0.0142	0.3749	0.0000	1,346.4177	1,346.4177	0.0537	0.0000	1,347.7604
Waste						0.0000	0.0000		0.0000	0.0000	32.7891	0.0000	32.7891	1.9378	0.0000	81.2337
Water						0.0000	0.0000		0.0000	0.0000	6.4413	49.2822	55.7235	0.6638	0.0161	77.1113
<b>Total</b>	<b>2.0829</b>	<b>2.0841</b>	<b>8.0698</b>	<b>0.0157</b>	<b>1.3472</b>	<b>0.0417</b>	<b>1.3889</b>	<b>0.3607</b>	<b>0.0408</b>	<b>0.4014</b>	<b>39.2304</b>	<b>2,082.5350</b>	<b>2,121.7654</b>	<b>2.6869</b>	<b>0.0238</b>	<b>2,196.0281</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
<b>Percent Reduction</b>	<b>0.14</b>	<b>1.16</b>	<b>0.15</b>	<b>0.95</b>	<b>0.00</b>	<b>4.47</b>	<b>0.14</b>	<b>0.00</b>	<b>4.56</b>	<b>0.48</b>	<b>0.00</b>	<b>2.62</b>	<b>2.57</b>	<b>0.07</b>	<b>3.17</b>	<b>2.50</b>

**3.0 Construction Detail**

**Construction Phase**

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Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2019	2/11/2019	5	30	
2	Site Preparation	Site Preparation	2/12/2019	3/11/2019	5	20	
3	Grading	Grading	3/12/2019	5/13/2019	5	45	
4	Building Construction	Building Construction	5/14/2019	1/18/2021	5	440	
5	Architectural Coating	Architectural Coating	5/5/2020	3/8/2021	5	220	
6	Paving	Paving	1/19/2021	3/8/2021	5	35	

**Acres of Grading (Site Preparation Phase): 0**

**Acres of Grading (Grading Phase): 112.5**

**Acres of Paving: 4.4**

**Residential Indoor: 464,535; Residential Outdoor: 154,845; Non-Residential Indoor: 75,000; Non-Residential Outdoor: 25,000; Striped Parking Area: 11,500 (Architectural Coating – sqft)**

**OffRoad Equipment**

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Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38

**Trips and VMT**

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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	6	15.00	0.00	80.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	10,540.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	351.00	104.00	0.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	70.00	0.00	0.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Use Cleaner Engines for Construction Equipment

Use DPF for Construction Equipment

Clean Paved Roads

**3.2 Demolition - 2019**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					8.9300e-003	0.0000	8.9300e-003	1.3500e-003	0.0000	1.3500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0527	0.5367	0.3309	5.8000e-004		0.0269	0.0269		0.0250	0.0250	0.0000	51.9395	51.9395	0.0145	0.0000	52.3007
<b>Total</b>	<b>0.0527</b>	<b>0.5367</b>	<b>0.3309</b>	<b>5.8000e-004</b>	<b>8.9300e-003</b>	<b>0.0269</b>	<b>0.0359</b>	<b>1.3500e-003</b>	<b>0.0250</b>	<b>0.0264</b>	<b>0.0000</b>	<b>51.9395</b>	<b>51.9395</b>	<b>0.0145</b>	<b>0.0000</b>	<b>52.3007</b>

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**3.2 Demolition - 2019**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	4.1000e-004	0.0141	3.0500e-003	3.0000e-005	6.8000e-004	8.0000e-005	7.7000e-004	1.9000e-004	8.0000e-005	2.7000e-004	0.0000	3.1040	3.1040	1.8000e-004	0.0000	3.1084
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	1.0800e-003	1.0200e-003	8.7900e-003	2.0000e-005	2.1700e-003	1.0000e-005	2.1800e-003	5.8000e-004	1.0000e-005	5.9000e-004	0.0000	1.8700	1.8700	7.0000e-005	0.0000	1.8718
<b>Total</b>	<b>1.4900e-003</b>	<b>0.0151</b>	<b>0.0118</b>	<b>5.0000e-005</b>	<b>2.8500e-003</b>	<b>9.0000e-005</b>	<b>2.9500e-003</b>	<b>7.7000e-004</b>	<b>9.0000e-005</b>	<b>8.6000e-004</b>	<b>0.0000</b>	<b>4.9740</b>	<b>4.9740</b>	<b>2.5000e-004</b>	<b>0.0000</b>	<b>4.9802</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					8.9300e-003	0.0000	8.9300e-003	1.3500e-003	0.0000	1.3500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0139	0.2747	0.3701	5.8000e-004		6.4700e-003	6.4700e-003		6.4700e-003	6.4700e-003	0.0000	51.9394	51.9394	0.0145	0.0000	52.3007
<b>Total</b>	<b>0.0139</b>	<b>0.2747</b>	<b>0.3701</b>	<b>5.8000e-004</b>	<b>8.9300e-003</b>	<b>6.4700e-003</b>	<b>0.0154</b>	<b>1.3500e-003</b>	<b>6.4700e-003</b>	<b>7.8200e-003</b>	<b>0.0000</b>	<b>51.9394</b>	<b>51.9394</b>	<b>0.0145</b>	<b>0.0000</b>	<b>52.3007</b>

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**3.2 Demolition - 2019**

**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	4.1000e-004	0.0141	3.0500e-003	3.0000e-005	6.8000e-004	8.0000e-005	7.7000e-004	1.9000e-004	8.0000e-005	2.7000e-004	0.0000	3.1040	3.1040	1.8000e-004	0.0000	3.1084
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	1.0800e-003	1.0200e-003	8.7900e-003	2.0000e-005	2.1700e-003	1.0000e-005	2.1800e-003	5.8000e-004	1.0000e-005	5.9000e-004	0.0000	1.8700	1.8700	7.0000e-005	0.0000	1.8718
<b>Total</b>	<b>1.4900e-003</b>	<b>0.0151</b>	<b>0.0118</b>	<b>5.0000e-005</b>	<b>2.8500e-003</b>	<b>9.0000e-005</b>	<b>2.9500e-003</b>	<b>7.7000e-004</b>	<b>9.0000e-005</b>	<b>8.6000e-004</b>	<b>0.0000</b>	<b>4.9740</b>	<b>4.9740</b>	<b>2.5000e-004</b>	<b>0.0000</b>	<b>4.9802</b>

**3.3 Site Preparation - 2019**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1807	0.0000	0.1807	0.0993	0.0000	0.0993	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0434	0.4557	0.2206	3.8000e-004		0.0239	0.0239		0.0220	0.0220	0.0000	34.1687	34.1687	0.0108	0.0000	34.4390
<b>Total</b>	<b>0.0434</b>	<b>0.4557</b>	<b>0.2206</b>	<b>3.8000e-004</b>	<b>0.1807</b>	<b>0.0239</b>	<b>0.2046</b>	<b>0.0993</b>	<b>0.0220</b>	<b>0.1213</b>	<b>0.0000</b>	<b>34.1687</b>	<b>34.1687</b>	<b>0.0108</b>	<b>0.0000</b>	<b>34.4390</b>

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**3.3 Site Preparation - 2019**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.6000e-004	8.1000e-004	7.0400e-003	2.0000e-005	1.7300e-003	1.0000e-005	1.7400e-003	4.6000e-004	1.0000e-005	4.7000e-004	0.0000	1.4960	1.4960	6.0000e-005	0.0000	1.4974
<b>Total</b>	<b>8.6000e-004</b>	<b>8.1000e-004</b>	<b>7.0400e-003</b>	<b>2.0000e-005</b>	<b>1.7300e-003</b>	<b>1.0000e-005</b>	<b>1.7400e-003</b>	<b>4.6000e-004</b>	<b>1.0000e-005</b>	<b>4.7000e-004</b>	<b>0.0000</b>	<b>1.4960</b>	<b>1.4960</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>1.4974</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1807	0.0000	0.1807	0.0993	0.0000	0.0993	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.3100e-003	0.1907	0.2296	3.8000e-004		4.7300e-003	4.7300e-003		4.7300e-003	4.7300e-003	0.0000	34.1687	34.1687	0.0108	0.0000	34.4389
<b>Total</b>	<b>9.3100e-003</b>	<b>0.1907</b>	<b>0.2296</b>	<b>3.8000e-004</b>	<b>0.1807</b>	<b>4.7300e-003</b>	<b>0.1854</b>	<b>0.0993</b>	<b>4.7300e-003</b>	<b>0.1040</b>	<b>0.0000</b>	<b>34.1687</b>	<b>34.1687</b>	<b>0.0108</b>	<b>0.0000</b>	<b>34.4389</b>



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**3.3 Site Preparation - 2019**

**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	8.6000e-004	8.1000e-004	7.0400e-003	2.0000e-005	1.7300e-003	1.0000e-005	1.7400e-003	4.6000e-004	1.0000e-005	4.7000e-004	0.0000	1.4960	1.4960	6.0000e-005	0.0000	1.4974
<b>Total</b>	<b>8.6000e-004</b>	<b>8.1000e-004</b>	<b>7.0400e-003</b>	<b>2.0000e-005</b>	<b>1.7300e-003</b>	<b>1.0000e-005</b>	<b>1.7400e-003</b>	<b>4.6000e-004</b>	<b>1.0000e-005</b>	<b>4.7000e-004</b>	<b>0.0000</b>	<b>1.4960</b>	<b>1.4960</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>1.4974</b>

**3.4 Grading - 2019**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.2029	0.0000	0.2029	0.0821	0.0000	0.0821	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1066	1.2267	0.7510	1.4000e-003		0.0536	0.0536		0.0493	0.0493	0.0000	125.3280	125.3280	0.0397	0.0000	126.3193
<b>Total</b>	<b>0.1066</b>	<b>1.2267</b>	<b>0.7510</b>	<b>1.4000e-003</b>	<b>0.2029</b>	<b>0.0536</b>	<b>0.2565</b>	<b>0.0821</b>	<b>0.0493</b>	<b>0.1314</b>	<b>0.0000</b>	<b>125.3280</b>	<b>125.3280</b>	<b>0.0397</b>	<b>0.0000</b>	<b>126.3193</b>

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**3.4 Grading - 2019**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0542	1.8510	0.4013	4.1900e-003	0.0898	0.0110	0.1008	0.0247	0.0105	0.0352	0.0000	408.9485	408.9485	0.0232	0.0000	409.5292
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	2.1600e-003	2.0300e-003	0.0176	4.0000e-005	4.3300e-003	3.0000e-005	4.3600e-003	1.1500e-003	3.0000e-005	1.1800e-003	0.0000	3.7401	3.7401	1.4000e-004	0.0000	3.7436
<b>Total</b>	<b>0.0564</b>	<b>1.8530</b>	<b>0.4189</b>	<b>4.2300e-003</b>	<b>0.0942</b>	<b>0.0110</b>	<b>0.1052</b>	<b>0.0258</b>	<b>0.0106</b>	<b>0.0364</b>	<b>0.0000</b>	<b>412.6885</b>	<b>412.6885</b>	<b>0.0234</b>	<b>0.0000</b>	<b>413.2727</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.2029	0.0000	0.2029	0.0821	0.0000	0.0821	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0343	0.6745	0.8263	1.4000e-003		0.0146	0.0146		0.0146	0.0146	0.0000	125.3278	125.3278	0.0397	0.0000	126.3191
<b>Total</b>	<b>0.0343</b>	<b>0.6745</b>	<b>0.8263</b>	<b>1.4000e-003</b>	<b>0.2029</b>	<b>0.0146</b>	<b>0.2175</b>	<b>0.0821</b>	<b>0.0146</b>	<b>0.0967</b>	<b>0.0000</b>	<b>125.3278</b>	<b>125.3278</b>	<b>0.0397</b>	<b>0.0000</b>	<b>126.3191</b>

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**3.4 Grading - 2019**

**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	0.0542	1.8510	0.4013	4.1900e-003	0.0898	0.0110	0.1008	0.0247	0.0105	0.0352	0.0000	408.9485	408.9485	0.0232	0.0000	409.5292
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	2.1600e-003	2.0300e-003	0.0176	4.0000e-005	4.3300e-003	3.0000e-005	4.3600e-003	1.1500e-003	3.0000e-005	1.1800e-003	0.0000	3.7401	3.7401	1.4000e-004	0.0000	3.7436
<b>Total</b>	<b>0.0564</b>	<b>1.8530</b>	<b>0.4189</b>	<b>4.2300e-003</b>	<b>0.0942</b>	<b>0.0110</b>	<b>0.1052</b>	<b>0.0258</b>	<b>0.0106</b>	<b>0.0364</b>	<b>0.0000</b>	<b>412.6885</b>	<b>412.6885</b>	<b>0.0234</b>	<b>0.0000</b>	<b>413.2727</b>

**3.5 Building Construction - 2019**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1960	1.7495	1.4246	2.2300e-003		0.1071	0.1071		0.1007	0.1007	0.0000	195.1365	195.1365	0.0475	0.0000	196.3249
<b>Total</b>	<b>0.1960</b>	<b>1.7495</b>	<b>1.4246</b>	<b>2.2300e-003</b>		<b>0.1071</b>	<b>0.1071</b>		<b>0.1007</b>	<b>0.1007</b>	<b>0.0000</b>	<b>195.1365</b>	<b>195.1365</b>	<b>0.0475</b>	<b>0.0000</b>	<b>196.3249</b>

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**3.5 Building Construction - 2019**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0404	0.9846	0.3089	1.7300e-003	0.0392	7.8800e-003	0.0471	0.0113	7.5400e-003	0.0189	0.0000	166.2974	166.2974	0.0107	0.0000	166.5645
Worker	0.1399	0.1315	1.1387	2.6800e-003	0.2805	1.9000e-003	0.2824	0.0745	1.7600e-003	0.0763	0.0000	242.1319	242.1319	9.0300e-003	0.0000	242.3576
<b>Total</b>	<b>0.1803</b>	<b>1.1160</b>	<b>1.4475</b>	<b>4.4100e-003</b>	<b>0.3197</b>	<b>9.7800e-003</b>	<b>0.3295</b>	<b>0.0859</b>	<b>9.3000e-003</b>	<b>0.0952</b>	<b>0.0000</b>	<b>408.4294</b>	<b>408.4294</b>	<b>0.0197</b>	<b>0.0000</b>	<b>408.9220</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0559	1.1808	1.4835	2.2300e-003		0.0375	0.0375		0.0375	0.0375	0.0000	195.1363	195.1363	0.0475	0.0000	196.3247
<b>Total</b>	<b>0.0559</b>	<b>1.1808</b>	<b>1.4835</b>	<b>2.2300e-003</b>		<b>0.0375</b>	<b>0.0375</b>		<b>0.0375</b>	<b>0.0375</b>	<b>0.0000</b>	<b>195.1363</b>	<b>195.1363</b>	<b>0.0475</b>	<b>0.0000</b>	<b>196.3247</b>

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**3.5 Building Construction - 2019**

**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	0.0404	0.9846	0.3089	1.7300e-003	0.0392	7.8800e-003	0.0471	0.0113	7.5400e-003	0.0189	0.0000	166.2974	166.2974	0.0107	0.0000	166.5645
Worker	0.1399	0.1315	1.1387	2.6800e-003	0.2805	1.9000e-003	0.2824	0.0745	1.7600e-003	0.0763	0.0000	242.1319	242.1319	9.0300e-003	0.0000	242.3576
<b>Total</b>	<b>0.1803</b>	<b>1.1160</b>	<b>1.4475</b>	<b>4.4100e-003</b>	<b>0.3197</b>	<b>9.7800e-003</b>	<b>0.3295</b>	<b>0.0859</b>	<b>9.3000e-003</b>	<b>0.0952</b>	<b>0.0000</b>	<b>408.4294</b>	<b>408.4294</b>	<b>0.0197</b>	<b>0.0000</b>	<b>408.9220</b>

**3.5 Building Construction - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2777	2.5134	2.2072	3.5300e-003		0.1463	0.1463		0.1376	0.1376	0.0000	303.4091	303.4091	0.0740	0.0000	305.2596
<b>Total</b>	<b>0.2777</b>	<b>2.5134</b>	<b>2.2072</b>	<b>3.5300e-003</b>		<b>0.1463</b>	<b>0.1463</b>		<b>0.1376</b>	<b>0.1376</b>	<b>0.0000</b>	<b>303.4091</b>	<b>303.4091</b>	<b>0.0740</b>	<b>0.0000</b>	<b>305.2596</b>

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**3.5 Building Construction - 2020**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0507	1.4182	0.4297	2.7200e-003	0.0619	7.7300e-003	0.0696	0.0179	7.4000e-003	0.0253	0.0000	262.1100	262.1100	0.0158	0.0000	262.5042
Worker	0.2011	0.1827	1.5816	4.1000e-003	0.4427	2.9100e-003	0.4456	0.1176	2.6800e-003	0.1203	0.0000	370.3347	370.3347	0.0122	0.0000	370.6395
<b>Total</b>	<b>0.2518</b>	<b>1.6009</b>	<b>2.0112</b>	<b>6.8200e-003</b>	<b>0.5046</b>	<b>0.0106</b>	<b>0.5152</b>	<b>0.1355</b>	<b>0.0101</b>	<b>0.1456</b>	<b>0.0000</b>	<b>632.4447</b>	<b>632.4447</b>	<b>0.0280</b>	<b>0.0000</b>	<b>633.1437</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0883	1.8636	2.3415	3.5300e-003		0.0592	0.0592		0.0592	0.0592	0.0000	303.4087	303.4087	0.0740	0.0000	305.2592
<b>Total</b>	<b>0.0883</b>	<b>1.8636</b>	<b>2.3415</b>	<b>3.5300e-003</b>		<b>0.0592</b>	<b>0.0592</b>		<b>0.0592</b>	<b>0.0592</b>	<b>0.0000</b>	<b>303.4087</b>	<b>303.4087</b>	<b>0.0740</b>	<b>0.0000</b>	<b>305.2592</b>

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**3.5 Building Construction - 2020**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0507	1.4182	0.4297	2.7200e-003	0.0619	7.7300e-003	0.0696	0.0179	7.4000e-003	0.0253	0.0000	262.1100	262.1100	0.0158	0.0000	262.5042
Worker	0.2011	0.1827	1.5816	4.1000e-003	0.4427	2.9100e-003	0.4456	0.1176	2.6800e-003	0.1203	0.0000	370.3347	370.3347	0.0122	0.0000	370.6395
<b>Total</b>	<b>0.2518</b>	<b>1.6009</b>	<b>2.0112</b>	<b>6.8200e-003</b>	<b>0.5046</b>	<b>0.0106</b>	<b>0.5152</b>	<b>0.1355</b>	<b>0.0101</b>	<b>0.1456</b>	<b>0.0000</b>	<b>632.4447</b>	<b>632.4447</b>	<b>0.0280</b>	<b>0.0000</b>	<b>633.1437</b>

**3.5 Building Construction - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0114	0.1046	0.0995	1.6000e-004		5.7500e-003	5.7500e-003		5.4100e-003	5.4100e-003	0.0000	13.8982	13.8982	3.3500e-003	0.0000	13.9821
<b>Total</b>	<b>0.0114</b>	<b>0.1046</b>	<b>0.0995</b>	<b>1.6000e-004</b>		<b>5.7500e-003</b>	<b>5.7500e-003</b>		<b>5.4100e-003</b>	<b>5.4100e-003</b>	<b>0.0000</b>	<b>13.8982</b>	<b>13.8982</b>	<b>3.3500e-003</b>	<b>0.0000</b>	<b>13.9821</b>

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**3.5 Building Construction - 2021**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.9000e-003	0.0594	0.0174	1.2000e-004	2.8300e-003	1.7000e-004	3.0000e-003	8.2000e-004	1.6000e-004	9.8000e-004	0.0000	11.9331	11.9331	7.0000e-004	0.0000	11.9507
Worker	8.5800e-003	7.4800e-003	0.0657	1.8000e-004	0.0203	1.3000e-004	0.0204	5.3900e-003	1.2000e-004	5.5100e-003	0.0000	16.3838	16.3838	5.0000e-004	0.0000	16.3962
<b>Total</b>	<b>0.0105</b>	<b>0.0669</b>	<b>0.0831</b>	<b>3.0000e-004</b>	<b>0.0231</b>	<b>3.0000e-004</b>	<b>0.0234</b>	<b>6.2100e-003</b>	<b>2.8000e-004</b>	<b>6.4900e-003</b>	<b>0.0000</b>	<b>28.3169</b>	<b>28.3169</b>	<b>1.2000e-003</b>	<b>0.0000</b>	<b>28.3469</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	4.0400e-003	0.0854	0.1072	1.6000e-004		2.7100e-003	2.7100e-003		2.7100e-003	2.7100e-003	0.0000	13.8982	13.8982	3.3500e-003	0.0000	13.9821
<b>Total</b>	<b>4.0400e-003</b>	<b>0.0854</b>	<b>0.1072</b>	<b>1.6000e-004</b>		<b>2.7100e-003</b>	<b>2.7100e-003</b>		<b>2.7100e-003</b>	<b>2.7100e-003</b>	<b>0.0000</b>	<b>13.8982</b>	<b>13.8982</b>	<b>3.3500e-003</b>	<b>0.0000</b>	<b>13.9821</b>



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**3.5 Building Construction - 2021**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.9000e-003	0.0594	0.0174	1.2000e-004	2.8300e-003	1.7000e-004	3.0000e-003	8.2000e-004	1.6000e-004	9.8000e-004	0.0000	11.9331	11.9331	7.0000e-004	0.0000	11.9507
Worker	8.5800e-003	7.4800e-003	0.0657	1.8000e-004	0.0203	1.3000e-004	0.0204	5.3900e-003	1.2000e-004	5.5100e-003	0.0000	16.3838	16.3838	5.0000e-004	0.0000	16.3962
<b>Total</b>	<b>0.0105</b>	<b>0.0669</b>	<b>0.0831</b>	<b>3.0000e-004</b>	<b>0.0231</b>	<b>3.0000e-004</b>	<b>0.0234</b>	<b>6.2100e-003</b>	<b>2.8000e-004</b>	<b>6.4900e-003</b>	<b>0.0000</b>	<b>28.3169</b>	<b>28.3169</b>	<b>1.2000e-003</b>	<b>0.0000</b>	<b>28.3469</b>

**3.6 Architectural Coating - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.6660					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0210	0.1457	0.1584	2.6000e-004		9.6000e-003	9.6000e-003		9.6000e-003	9.6000e-003	0.0000	22.0856	22.0856	1.7100e-003	0.0000	22.1284
<b>Total</b>	<b>0.6869</b>	<b>0.1457</b>	<b>0.1584</b>	<b>2.6000e-004</b>		<b>9.6000e-003</b>	<b>9.6000e-003</b>		<b>9.6000e-003</b>	<b>9.6000e-003</b>	<b>0.0000</b>	<b>22.0856</b>	<b>22.0856</b>	<b>1.7100e-003</b>	<b>0.0000</b>	<b>22.1284</b>

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**3.6 Architectural Coating - 2020**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	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	0.0265	0.0241	0.2083	5.4000e-004	0.0583	3.8000e-004	0.0587	0.0155	3.5000e-004	0.0158	0.0000	48.7675	48.7675	1.6100e-003	0.0000	48.8076
<b>Total</b>	<b>0.0265</b>	<b>0.0241</b>	<b>0.2083</b>	<b>5.4000e-004</b>	<b>0.0583</b>	<b>3.8000e-004</b>	<b>0.0587</b>	<b>0.0155</b>	<b>3.5000e-004</b>	<b>0.0158</b>	<b>0.0000</b>	<b>48.7675</b>	<b>48.7675</b>	<b>1.6100e-003</b>	<b>0.0000</b>	<b>48.8076</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.6660					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.1400e-003	0.1174	0.1585	2.6000e-004		4.1100e-003	4.1100e-003		4.1100e-003	4.1100e-003	0.0000	22.0856	22.0856	1.7100e-003	0.0000	22.1284
<b>Total</b>	<b>0.6711</b>	<b>0.1174</b>	<b>0.1585</b>	<b>2.6000e-004</b>		<b>4.1100e-003</b>	<b>4.1100e-003</b>		<b>4.1100e-003</b>	<b>4.1100e-003</b>	<b>0.0000</b>	<b>22.0856</b>	<b>22.0856</b>	<b>1.7100e-003</b>	<b>0.0000</b>	<b>22.1284</b>

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**3.6 Architectural Coating - 2020**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	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	0.0265	0.0241	0.2083	5.4000e-004	0.0583	3.8000e-004	0.0587	0.0155	3.5000e-004	0.0158	0.0000	48.7675	48.7675	1.6100e-003	0.0000	48.8076
<b>Total</b>	<b>0.0265</b>	<b>0.0241</b>	<b>0.2083</b>	<b>5.4000e-004</b>	<b>0.0583</b>	<b>3.8000e-004</b>	<b>0.0587</b>	<b>0.0155</b>	<b>3.5000e-004</b>	<b>0.0158</b>	<b>0.0000</b>	<b>48.7675</b>	<b>48.7675</b>	<b>1.6100e-003</b>	<b>0.0000</b>	<b>48.8076</b>

**3.6 Architectural Coating - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.1809					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.1400e-003	0.0359	0.0427	7.0000e-005		2.2100e-003	2.2100e-003		2.2100e-003	2.2100e-003	0.0000	6.0002	6.0002	4.1000e-004	0.0000	6.0104
<b>Total</b>	<b>0.1861</b>	<b>0.0359</b>	<b>0.0427</b>	<b>7.0000e-005</b>		<b>2.2100e-003</b>	<b>2.2100e-003</b>		<b>2.2100e-003</b>	<b>2.2100e-003</b>	<b>0.0000</b>	<b>6.0002</b>	<b>6.0002</b>	<b>4.1000e-004</b>	<b>0.0000</b>	<b>6.0104</b>

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**3.6 Architectural Coating - 2021**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.7000e-003	5.8400e-003	0.0513	1.4000e-004	0.0158	1.0000e-004	0.0159	4.2100e-003	9.0000e-005	4.3000e-003	0.0000	12.7974	12.7974	3.9000e-004	0.0000	12.8071
<b>Total</b>	<b>6.7000e-003</b>	<b>5.8400e-003</b>	<b>0.0513</b>	<b>1.4000e-004</b>	<b>0.0158</b>	<b>1.0000e-004</b>	<b>0.0159</b>	<b>4.2100e-003</b>	<b>9.0000e-005</b>	<b>4.3000e-003</b>	<b>0.0000</b>	<b>12.7974</b>	<b>12.7974</b>	<b>3.9000e-004</b>	<b>0.0000</b>	<b>12.8071</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.1809					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.4000e-003	0.0319	0.0431	7.0000e-005		1.1200e-003	1.1200e-003		1.1200e-003	1.1200e-003	0.0000	6.0001	6.0001	4.1000e-004	0.0000	6.0104
<b>Total</b>	<b>0.1823</b>	<b>0.0319</b>	<b>0.0431</b>	<b>7.0000e-005</b>		<b>1.1200e-003</b>	<b>1.1200e-003</b>		<b>1.1200e-003</b>	<b>1.1200e-003</b>	<b>0.0000</b>	<b>6.0001</b>	<b>6.0001</b>	<b>4.1000e-004</b>	<b>0.0000</b>	<b>6.0104</b>

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**3.6 Architectural Coating - 2021**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.7000e-003	5.8400e-003	0.0513	1.4000e-004	0.0158	1.0000e-004	0.0159	4.2100e-003	9.0000e-005	4.3000e-003	0.0000	12.7974	12.7974	3.9000e-004	0.0000	12.8071
<b>Total</b>	<b>6.7000e-003</b>	<b>5.8400e-003</b>	<b>0.0513</b>	<b>1.4000e-004</b>	<b>0.0158</b>	<b>1.0000e-004</b>	<b>0.0159</b>	<b>4.2100e-003</b>	<b>9.0000e-005</b>	<b>4.3000e-003</b>	<b>0.0000</b>	<b>12.7974</b>	<b>12.7974</b>	<b>3.9000e-004</b>	<b>0.0000</b>	<b>12.8071</b>

**3.7 Paving - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0220	0.2261	0.2564	4.0000e-004		0.0119	0.0119		0.0109	0.0109	0.0000	35.0411	35.0411	0.0113	0.0000	35.3244
Paving	5.7600e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0277</b>	<b>0.2261</b>	<b>0.2564</b>	<b>4.0000e-004</b>		<b>0.0119</b>	<b>0.0119</b>		<b>0.0109</b>	<b>0.0109</b>	<b>0.0000</b>	<b>35.0411</b>	<b>35.0411</b>	<b>0.0113</b>	<b>0.0000</b>	<b>35.3244</b>

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**3.7 Paving - 2021**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0700e-003	9.3000e-004	8.1800e-003	2.0000e-005	2.5300e-003	2.0000e-005	2.5400e-003	6.7000e-004	1.0000e-005	6.9000e-004	0.0000	2.0421	2.0421	6.0000e-005	0.0000	2.0437
<b>Total</b>	<b>1.0700e-003</b>	<b>9.3000e-004</b>	<b>8.1800e-003</b>	<b>2.0000e-005</b>	<b>2.5300e-003</b>	<b>2.0000e-005</b>	<b>2.5400e-003</b>	<b>6.7000e-004</b>	<b>1.0000e-005</b>	<b>6.9000e-004</b>	<b>0.0000</b>	<b>2.0421</b>	<b>2.0421</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>2.0437</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	9.8200e-003	0.1977	0.3027	4.0000e-004		5.3300e-003	5.3300e-003		5.3300e-003	5.3300e-003	0.0000	35.0411	35.0411	0.0113	0.0000	35.3244
Paving	5.7600e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0156</b>	<b>0.1977</b>	<b>0.3027</b>	<b>4.0000e-004</b>		<b>5.3300e-003</b>	<b>5.3300e-003</b>		<b>5.3300e-003</b>	<b>5.3300e-003</b>	<b>0.0000</b>	<b>35.0411</b>	<b>35.0411</b>	<b>0.0113</b>	<b>0.0000</b>	<b>35.3244</b>

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**3.7 Paving - 2021**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0700e-003	9.3000e-004	8.1800e-003	2.0000e-005	2.5300e-003	2.0000e-005	2.5400e-003	6.7000e-004	1.0000e-005	6.9000e-004	0.0000	2.0421	2.0421	6.0000e-005	0.0000	2.0437
<b>Total</b>	<b>1.0700e-003</b>	<b>9.3000e-004</b>	<b>8.1800e-003</b>	<b>2.0000e-005</b>	<b>2.5300e-003</b>	<b>2.0000e-005</b>	<b>2.5400e-003</b>	<b>6.7000e-004</b>	<b>1.0000e-005</b>	<b>6.9000e-004</b>	<b>0.0000</b>	<b>2.0421</b>	<b>2.0421</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>2.0437</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

Mitigated - San Luis Ranch Project - 2019 Start - San Luis Obispo County APCD Air District, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.4526	1.9214	5.0764	0.0147	1.3472	0.0152	1.3623	0.3607	0.0142	0.3749	0.0000	1,346.4177	1,346.4177	0.0537	0.0000	1,347.7604
Unmitigated	0.4526	1.9214	5.0764	0.0147	1.3472	0.0152	1.3623	0.3607	0.0142	0.3749	0.0000	1,346.4177	1,346.4177	0.0537	0.0000	1,347.7604

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	1,002.73	1,042.13	908.17	2,528,468	2,528,468
City Park	0.00	0.00	0.00		
General Office Building	300.00	67.00	28.50	518,513	518,513
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Regional Shopping Center	221.75	259.50	131.00	309,253	309,253
Single Family Housing	91.62	95.22	82.98	231,028	231,028
Total	1,616.10	1,463.85	1,150.65	3,587,261	3,587,261

4.3 Trip Type Information



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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
Apartments Mid Rise	13.00	5.00	5.00	35.80	21.00	43.20	86	11	3
City Park	13.00	5.00	5.00	33.00	48.00	19.00	66	28	6
General Office Building	13.00	5.00	5.00	33.00	48.00	19.00	77	19	4
Parking Lot	13.00	5.00	5.00	0.00	0.00	0.00	0	0	0
Parking Lot	13.00	5.00	5.00	0.00	0.00	0.00	0	0	0
Parking Lot	13.00	5.00	5.00	0.00	0.00	0.00	0	0	0
Regional Shopping Center	13.00	5.00	5.00	16.30	64.70	19.00	54	35	11
Single Family Housing	13.00	5.00	5.00	35.80	21.00	43.20	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	0.575581	0.029595	0.198288	0.120539	0.026172	0.006482	0.012911	0.019591	0.002354	0.001214	0.005068	0.000784	0.001422
Parking Lot	0.575581	0.029595	0.198288	0.120539	0.026172	0.006482	0.012911	0.019591	0.002354	0.001214	0.005068	0.000784	0.001422
Parking Lot	0.575581	0.029595	0.198288	0.120539	0.026172	0.006482	0.012911	0.019591	0.002354	0.001214	0.005068	0.000784	0.001422
Parking Lot	0.575581	0.029595	0.198288	0.120539	0.026172	0.006482	0.012911	0.019591	0.002354	0.001214	0.005068	0.000784	0.001422
City Park	0.575581	0.029595	0.198288	0.120539	0.026172	0.006482	0.012911	0.019591	0.002354	0.001214	0.005068	0.000784	0.001422
Apartments Mid Rise	0.575581	0.029595	0.198288	0.120539	0.026172	0.006482	0.012911	0.019591	0.002354	0.001214	0.005068	0.000784	0.001422
Single Family Housing	0.575581	0.029595	0.198288	0.120539	0.026172	0.006482	0.012911	0.019591	0.002354	0.001214	0.005068	0.000784	0.001422
Regional Shopping Center	0.575581	0.029595	0.198288	0.120539	0.026172	0.006482	0.012911	0.019591	0.002354	0.001214	0.005068	0.000784	0.001422

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Install Energy Efficient Appliances

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	533.9802	533.9802	0.0242	5.0000e-003	536.0725
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	559.3420	559.3420	0.0253	5.2300e-003	561.5337
NaturalGas Mitigated	0.0150	0.1290	0.0625	8.2000e-004		0.0103	0.0103		0.0103	0.0103	0.0000	148.0722	148.0722	2.8400e-003	2.7100e-003	148.9521
NaturalGas Unmitigated	0.0178	0.1534	0.0748	9.7000e-004		0.0123	0.0123		0.0123	0.0123	0.0000	176.0207	176.0207	3.3700e-003	3.2300e-003	177.0667

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**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	2.18061e+006	0.0118	0.1005	0.0428	6.4000e-004		8.1200e-003	8.1200e-003		8.1200e-003	8.1200e-003	0.0000	116.3655	116.3655	2.2300e-003	2.1300e-003	117.0570
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
General Office Building	411250	2.2200e-003	0.0202	0.0169	1.2000e-004		1.5300e-003	1.5300e-003		1.5300e-003	1.5300e-003	0.0000	21.9459	21.9459	4.2000e-004	4.0000e-004	22.0763
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	59500	3.2000e-004	2.9200e-003	2.4500e-003	2.0000e-005		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004	0.0000	3.1752	3.1752	6.0000e-005	6.0000e-005	3.1940
Single Family Housing	647146	3.4900e-003	0.0298	0.0127	1.9000e-004		2.4100e-003	2.4100e-003		2.4100e-003	2.4100e-003	0.0000	34.5342	34.5342	6.6000e-004	6.3000e-004	34.7394
<b>Total</b>		<b>0.0178</b>	<b>0.1534</b>	<b>0.0748</b>	<b>9.7000e-004</b>		<b>0.0123</b>	<b>0.0123</b>		<b>0.0123</b>	<b>0.0123</b>	<b>0.0000</b>	<b>176.0207</b>	<b>176.0207</b>	<b>3.3700e-003</b>	<b>3.2200e-003</b>	<b>177.0667</b>

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**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	tons/yr										MT/yr					
Apartments Mid Rise	1.86879e+006	0.0101	0.0861	0.0366	5.5000e-004		6.9600e-003	6.9600e-003		6.9600e-003	6.9600e-003	0.0000	99.7259	99.7259	1.9100e-003	1.8300e-003	100.3185
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
General Office Building	329300	1.7800e-003	0.0161	0.0136	1.0000e-004		1.2300e-003	1.2300e-003		1.2300e-003	1.2300e-003	0.0000	17.5727	17.5727	3.4000e-004	3.2000e-004	17.6771
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	47600	2.6000e-004	2.3300e-003	1.9600e-003	1.0000e-005		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004	0.0000	2.5401	2.5401	5.0000e-005	5.0000e-005	2.5552
Single Family Housing	529075	2.8500e-003	0.0244	0.0104	1.6000e-004		1.9700e-003	1.9700e-003		1.9700e-003	1.9700e-003	0.0000	28.2335	28.2335	5.4000e-004	5.2000e-004	28.4012
<b>Total</b>		<b>0.0150</b>	<b>0.1290</b>	<b>0.0625</b>	<b>8.2000e-004</b>		<b>0.0103</b>	<b>0.0103</b>		<b>0.0103</b>	<b>0.0103</b>	<b>0.0000</b>	<b>148.0722</b>	<b>148.0722</b>	<b>2.8400e-003</b>	<b>2.7200e-003</b>	<b>148.9521</b>

Mitigated - San Luis Ranch Project - 2019 Start - San Luis Obispo County APCD Air District, Annual

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	868961	252.7908	0.0114	2.3600e-003	253.7813
City Park	0	0.0000	0.0000	0.0000	0.0000
General Office Building	455500	132.5102	5.9900e-003	1.2400e-003	133.0294
Parking Lot	26833	7.8060	3.5000e-004	7.0000e-005	7.8366
Parking Lot	68999	20.0726	9.1000e-004	1.9000e-004	20.1513
Parking Lot	72832.3	21.1878	9.6000e-004	2.0000e-004	21.2708
Regional Shopping Center	273750	79.6370	3.6000e-003	7.5000e-004	79.9491
Single Family Housing	155847	45.3377	2.0500e-003	4.2000e-004	45.5153
<b>Total</b>		<b>559.3420</b>	<b>0.0253</b>	<b>5.2300e-003</b>	<b>561.5337</b>

Mitigated - San Luis Ranch Project - 2019 Start - San Luis Obispo County APCD Air District, Annual

**5.3 Energy by Land Use - Electricity**

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	832585	242.2084	0.0110	2.2700e-003	243.1575
City Park	0	0.0000	0.0000	0.0000	0.0000
General Office Building	423500	123.2010	5.5700e-003	1.1500e-003	123.6837
Parking Lot	26833	7.8060	3.5000e-004	7.0000e-005	7.8366
Parking Lot	68999	20.0726	9.1000e-004	1.9000e-004	20.1513
Parking Lot	72832.3	21.1878	9.6000e-004	2.0000e-004	21.2708
Regional Shopping Center	259300	75.4333	3.4100e-003	7.1000e-004	75.7289
Single Family Housing	151493	44.0710	1.9900e-003	4.1000e-004	44.2437
<b>Total</b>		<b>533.9802</b>	<b>0.0241</b>	<b>5.0000e-003</b>	<b>536.0725</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

No Hearths Installed

Mitigated - San Luis Ranch Project - 2019 Start - San Luis Obispo County APCD Air District, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1.6153	0.0338	2.9309	1.5000e-004		0.0162	0.0162		0.0162	0.0162	0.0000	4.7827	4.7827	4.6200e-003	0.0000	4.8982
Unmitigated	1.6153	0.0338	2.9309	1.5000e-004		0.0162	0.0162		0.0162	0.0162	0.0000	4.7827	4.7827	4.6200e-003	0.0000	4.8982

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.4208					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.1060					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0886	0.0338	2.9309	1.5000e-004		0.0162	0.0162		0.0162	0.0162	0.0000	4.7827	4.7827	4.6200e-003	0.0000	4.8982
<b>Total</b>	<b>1.6153</b>	<b>0.0338</b>	<b>2.9309</b>	<b>1.5000e-004</b>		<b>0.0162</b>	<b>0.0162</b>		<b>0.0162</b>	<b>0.0162</b>	<b>0.0000</b>	<b>4.7827</b>	<b>4.7827</b>	<b>4.6200e-003</b>	<b>0.0000</b>	<b>4.8982</b>

Mitigated - San Luis Ranch Project - 2019 Start - San Luis Obispo County APCD Air District, Annual

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.4208					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.1060					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0886	0.0338	2.9309	1.5000e-004		0.0162	0.0162		0.0162	0.0162	0.0000	4.7827	4.7827	4.6200e-003	0.0000	4.8982
<b>Total</b>	<b>1.6153</b>	<b>0.0338</b>	<b>2.9309</b>	<b>1.5000e-004</b>		<b>0.0162</b>	<b>0.0162</b>		<b>0.0162</b>	<b>0.0162</b>	<b>0.0000</b>	<b>4.7827</b>	<b>4.7827</b>	<b>4.6200e-003</b>	<b>0.0000</b>	<b>4.8982</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

Use Reclaimed Water



Mitigated - San Luis Ranch Project - 2019 Start - San Luis Obispo County APCD Air District, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	55.7235	0.6638	0.0161	77.1113
Unmitigated	58.3578	0.6639	0.0161	79.7559

Mitigated - San Luis Ranch Project - 2019 Start - San Luis Obispo County APCD Air District, Annual

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	12.8353 / 8.09185	32.5155	0.4195	0.0101	46.0259
City Park	0 / 6.91059	7.0363	3.2000e-004	7.0000e-005	7.0639
General Office Building	4.44334 / 2.72334	11.1769	0.1452	3.5100e-003	15.8536
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	1.85181 / 1.13498	4.6581	0.0605	1.4600e-003	6.6072
Single Family Housing	1.17277 / 0.739357	2.9710	0.0383	9.3000e-004	4.2054
<b>Total</b>		<b>58.3578</b>	<b>0.6639</b>	<b>0.0161</b>	<b>79.7559</b>

Mitigated - San Luis Ranch Project - 2019 Start - San Luis Obispo County APCD Air District, Annual

**7.2 Water by Land Use**

**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	12.8353 / 7.02372	31.4279	0.4195	0.0101	44.9340
City Park	0 / 5.99839	6.1075	2.8000e-004	6.0000e-005	6.1314
General Office Building	4.44334 / 2.36386	10.8109	0.1452	3.5100e-003	15.4862
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	1.85181 / 0.985165	4.5056	0.0605	1.4600e-003	6.4540
Single Family Housing	1.17277 / 0.641761	2.8716	0.0383	9.3000e-004	4.1057
<b>Total</b>		<b>55.7235</b>	<b>0.6638</b>	<b>0.0161</b>	<b>77.1113</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

Mitigated - San Luis Ranch Project - 2019 Start - San Luis Obispo County APCD Air District, Annual

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	32.7891	1.9378	0.0000	81.2337
Unmitigated	32.7891	1.9378	0.0000	81.2337

## Mitigated - San Luis Ranch Project - 2019 Start - San Luis Obispo County APCD Air District, Annual

**8.2 Waste by Land Use****Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	90.62	18.3950	1.0871	0.0000	45.5729
City Park	0.5	0.1015	6.0000e-003	0.0000	0.2515
General Office Building	23.25	4.7195	0.2789	0.0000	11.6925
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	26.25	5.3285	0.3149	0.0000	13.2012
Single Family Housing	20.91	4.2445	0.2509	0.0000	10.5157
<b>Total</b>		<b>32.7891</b>	<b>1.9378</b>	<b>0.0000</b>	<b>81.2337</b>

Mitigated - San Luis Ranch Project - 2019 Start - San Luis Obispo County APCD Air District, Annual

**8.2 Waste by Land Use**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	90.62	18.3950	1.0871	0.0000	45.5729
City Park	0.5	0.1015	6.0000e-003	0.0000	0.2515
General Office Building	23.25	4.7195	0.2789	0.0000	11.6925
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	26.25	5.3285	0.3149	0.0000	13.2012
Single Family Housing	20.91	4.2445	0.2509	0.0000	10.5157
<b>Total</b>		<b>32.7891</b>	<b>1.9378</b>	<b>0.0000</b>	<b>81.2337</b>

**9.0 Operational Offroad**

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

Fire Pumps and Emergency Generators

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

Mitigated - San Luis Ranch Project - 2019 Start - San Luis Obispo County APCD Air District, Annual

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

Equipment Type	Number
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**11.0 Vegetation**

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Mitigated - San Luis Ranch Project - 2019 Start - San Luis Obispo County APCD Air District, Summer

**Mitigated - San Luis Ranch Project - 2019 Start**  
**San Luis Obispo County APCD Air District, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	25.00	1000sqft	0.63	25,000.00	0
Parking Lot	1.90	Acre	1.90	82,764.00	0
Parking Lot	1.80	Acre	1.80	78,408.00	0
Parking Lot	0.70	Acre	0.70	30,492.00	0
City Park	5.80	Acre	5.80	252,648.00	0
Apartments Mid Rise	197.00	Dwelling Unit	7.20	197,000.00	563
Single Family Housing	18.00	Dwelling Unit	9.10	32,400.00	51
Regional Shopping Center	25.00	1000sqft	0.57	25,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	3.2	<b>Precipitation Freq (Days)</b>	44
<b>Climate Zone</b>	4			<b>Operational Year</b>	2022
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MW hr)</b>	641.35	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

**1.3 User Entered Comments & Non-Default Data**



Mitigated - San Luis Ranch Project - 2019 Start - San Luis Obispo County APCD Air District, Summer

Project Characteristics -

Land Use - Land use values from buildout and phasing in Specific Plan Section 7.7. Includes portions of Phases 1, 2, 3, 5, and 6; and Dalidio improvements.

Construction Phase - No demolition in phases 1, 2, 4, 5 and 6. AC expected to overlap with half of building construction as painting would occur as buildings are finished.

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Demolition - Building sf estimated using Google Earth

Grading - Total import proportionally distributed by phase acreage.

Architectural Coating - Per MM AQ-2

Vehicle Trips - Trip generation rate based on Omni-Means 2016 Traffic Impact Study.

Woodstoves - PEr MM AQ-3

Construction Off-road Equipment Mitigation - per MM AQ-2

Mobile Land Use Mitigation - Trip reductions from project's density, diversity, and access to alternative transportation accounted for in trip generation rates.

Area Mitigation - Per MM AQ-3

Energy Mitigation - Per Specific Plan, appliances will be energy efficient. Exceed Title 24 per MM AQ-3

Water Mitigation - Total outdoor water use for these land uses = 20.7 Mgal, with park at 6.9 Mgal; Park using reclaimed = 33% of total.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	50.00
tblArchitecturalCoating	EF_Parking	150.00	50.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	50.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	50.00
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	0
tblConstEquipMitigation	DPF	No Change	Level 2
tblConstEquipMitigation	DPF	No Change	Level 2
tblConstEquipMitigation	DPF	No Change	Level 2

Mitigated - San Luis Ranch Project - 2019 Start - San Luis Obispo County APCD Air District, Summer

tblConstEquipMitigation	DPF	No Change	Level 2
tblConstEquipMitigation	DPF	No Change	Level 2
tblConstEquipMitigation	DPF	No Change	Level 2
tblConstEquipMitigation	DPF	No Change	Level 2
tblConstEquipMitigation	DPF	No Change	Level 2
tblConstEquipMitigation	DPF	No Change	Level 2
tblConstEquipMitigation	DPF	No Change	Level 2
tblConstEquipMitigation	DPF	No Change	Level 2
tblConstEquipMitigation	DPF	No Change	Level 2
tblConstEquipMitigation	DPF	No Change	Level 2
tblConstEquipMitigation	DPF	No Change	Level 2
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3

Mitigated - San Luis Ranch Project - 2019 Start - San Luis Obispo County APCD Air District, Summer

tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	35.00	220.00
tblGrading	MaterialImported	0.00	84,320.00
tblLandUse	LotAcreage	0.57	0.63
tblLandUse	LotAcreage	5.18	7.20
tblLandUse	LotAcreage	5.84	9.10
tblProjectCharacteristics	OperationalYear	2018	2022
tblVehicleTrips	ST_TR	6.39	5.29
tblVehicleTrips	ST_TR	22.75	0.00
tblVehicleTrips	ST_TR	2.46	2.68
tblVehicleTrips	ST_TR	49.97	10.38
tblVehicleTrips	ST_TR	9.91	5.29
tblVehicleTrips	SU_TR	5.86	4.61
tblVehicleTrips	SU_TR	16.74	0.00
tblVehicleTrips	SU_TR	1.05	1.14
tblVehicleTrips	SU_TR	25.24	5.24

## Mitigated - San Luis Ranch Project - 2019 Start - San Luis Obispo County APCD Air District, Summer

tblVehicleTrips	SU_TR	8.62	4.61
tblVehicleTrips	WD_TR	6.65	5.09
tblVehicleTrips	WD_TR	1.89	0.00
tblVehicleTrips	WD_TR	11.03	12.00
tblVehicleTrips	WD_TR	42.70	8.87
tblVehicleTrips	WD_TR	9.52	5.09
tblWoodstoves	WoodstoveDayYear	60.00	0.00
tblWoodstoves	WoodstoveDayYear	60.00	0.00
tblWoodstoves	WoodstoveWoodMass	2,016.00	0.00
tblWoodstoves	WoodstoveWoodMass	2,016.00	0.00

## 2.0 Emissions Summary

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Mitigated - San Luis Ranch Project - 2019 Start - San Luis Obispo County APCD Air District, Summer

**2.1 Overall Construction (Maximum Daily Emission)**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2019	7.2160	135.2333	51.5134	0.2512	18.2442	2.8691	20.6358	9.9779	2.6574	12.1781	0.0000	26,484.94 26	26,484.94 26	3.0704	0.0000	26,561.70 25
2020	12.2390	33.1051	36.6998	0.0899	4.6448	1.3129	5.9577	1.2429	1.2416	2.4845	0.0000	8,958.013 8	8,958.013 8	0.8999	0.0000	8,980.511 1
2021	11.8043	30.1326	34.6760	0.0885	4.6449	1.1061	5.7510	1.2429	1.0455	2.2885	0.0000	8,812.812 2	8,812.812 2	0.8733	0.0000	8,834.644 5
<b>Maximum</b>	<b>12.2390</b>	<b>135.2333</b>	<b>51.5134</b>	<b>0.2512</b>	<b>18.2442</b>	<b>2.8691</b>	<b>20.6358</b>	<b>9.9779</b>	<b>2.6574</b>	<b>12.1781</b>	<b>0.0000</b>	<b>26,484.94 26</b>	<b>26,484.94 26</b>	<b>3.0704</b>	<b>0.0000</b>	<b>26,561.70 25</b>

**Mitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2019	4.0002	110.6914	54.8593	0.2512	18.2442	1.1362	18.7185	9.9779	1.1151	10.4520	0.0000	26,484.94 26	26,484.94 26	3.0704	0.0000	26,561.70 25
2020	10.6103	27.8183	37.7261	0.0899	4.6448	0.5842	5.2290	1.2429	0.5796	1.8225	0.0000	8,958.013 8	8,958.013 8	0.8999	0.0000	8,980.511 0
2021	10.4178	26.7567	35.9895	0.0885	4.6449	0.5527	5.1976	1.2429	0.5495	1.7924	0.0000	8,812.812 2	8,812.812 2	0.8733	0.0000	8,834.644 5
<b>Maximum</b>	<b>10.6103</b>	<b>110.6914</b>	<b>54.8593</b>	<b>0.2512</b>	<b>18.2442</b>	<b>1.1362</b>	<b>18.7185</b>	<b>9.9779</b>	<b>1.1151</b>	<b>10.4520</b>	<b>0.0000</b>	<b>26,484.94 26</b>	<b>26,484.94 26</b>	<b>3.0704</b>	<b>0.0000</b>	<b>26,561.70 25</b>

## Mitigated - San Luis Ranch Project - 2019 Start - San Luis Obispo County APCD Air District, Summer

	ROG	NOx	CO	SO2	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	19.93	16.73	-4.63	0.00	0.00	57.02	9.89	0.00	54.61	17.01	0.00	0.00	0.00	0.00	0.00	0.00

Mitigated - San Luis Ranch Project - 2019 Start - San Luis Obispo County APCD Air District, Summer

**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	8.9027	0.2048	17.7630	9.4000e-004		0.0981	0.0981		0.0981	0.0981	0.0000	31.9519	31.9519	0.0309	0.0000	32.7231
Energy	0.0975	0.8404	0.4100	5.3200e-003		0.0673	0.0673		0.0673	0.0673		1,063.1759	1,063.1759	0.0204	0.0195	1,069.4938
Mobile	2.9091	11.2388	30.6504	0.0920	8.3620	0.0916	8.4536	2.2338	0.0859	2.3198		9,277.8426	9,277.8426	0.3582		9,286.7964
<b>Total</b>	<b>11.9092</b>	<b>12.2841</b>	<b>48.8235</b>	<b>0.0982</b>	<b>8.3620</b>	<b>0.2570</b>	<b>8.6190</b>	<b>2.2338</b>	<b>0.2514</b>	<b>2.4852</b>	<b>0.0000</b>	<b>10,372.9704</b>	<b>10,372.9704</b>	<b>0.4094</b>	<b>0.0195</b>	<b>10,389.0133</b>

**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	8.9027	0.2048	17.7630	9.4000e-004		0.0981	0.0981		0.0981	0.0981	0.0000	31.9519	31.9519	0.0309	0.0000	32.7231
Energy	0.0820	0.7067	0.3427	4.4700e-003		0.0566	0.0566		0.0566	0.0566		894.3651	894.3651	0.0171	0.0164	899.6798
Mobile	2.9091	11.2388	30.6504	0.0920	8.3620	0.0916	8.4536	2.2338	0.0859	2.3198		9,277.8426	9,277.8426	0.3582		9,286.7964
<b>Total</b>	<b>11.8937</b>	<b>12.1503</b>	<b>48.7561</b>	<b>0.0974</b>	<b>8.3620</b>	<b>0.2464</b>	<b>8.6084</b>	<b>2.2338</b>	<b>0.2407</b>	<b>2.4745</b>	<b>0.0000</b>	<b>10,204.1596</b>	<b>10,204.1596</b>	<b>0.4061</b>	<b>0.0164</b>	<b>10,219.1993</b>

## Mitigated - San Luis Ranch Project - 2019 Start - San Luis Obispo County APCD Air District, Summer

	ROG	NOx	CO	SO2	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	0.13	1.09	0.14	0.87	0.00	4.16	0.12	0.00	4.25	0.43	0.00	1.63	1.63	0.79	15.85	1.63

### 3.0 Construction Detail

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#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2019	2/11/2019	5	30	
2	Site Preparation	Site Preparation	2/12/2019	3/11/2019	5	20	
3	Grading	Grading	3/12/2019	5/13/2019	5	45	
4	Building Construction	Building Construction	5/14/2019	1/18/2021	5	440	
5	Architectural Coating	Architectural Coating	5/5/2020	3/8/2021	5	220	
6	Paving	Paving	1/19/2021	3/8/2021	5	35	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 112.5

Acres of Paving: 4.4

Residential Indoor: 464,535; Residential Outdoor: 154,845; Non-Residential Indoor: 75,000; Non-Residential Outdoor: 25,000; Striped Parking Area: 11,500 (Architectural Coating – sqft)

#### OffRoad Equipment



## Mitigated - San Luis Ranch Project - 2019 Start - San Luis Obispo County APCD Air District, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38

**Trips and VMT**

Mitigated - San Luis Ranch Project - 2019 Start - San Luis Obispo County APCD Air District, Summer

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	6	15.00	0.00	80.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	10,540.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	351.00	104.00	0.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	70.00	0.00	0.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Use Cleaner Engines for Construction Equipment

Use DPF for Construction Equipment

Clean Paved Roads

**3.2 Demolition - 2019**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5952	0.0000	0.5952	0.0901	0.0000	0.0901			0.0000			0.0000
Off-Road	3.5134	35.7830	22.0600	0.0388		1.7949	1.7949		1.6697	1.6697		3,816.899 4	3,816.899 4	1.0618		3,843.445 1
<b>Total</b>	<b>3.5134</b>	<b>35.7830</b>	<b>22.0600</b>	<b>0.0388</b>	<b>0.5952</b>	<b>1.7949</b>	<b>2.3901</b>	<b>0.0901</b>	<b>1.6697</b>	<b>1.7598</b>		<b>3,816.899 4</b>	<b>3,816.899 4</b>	<b>1.0618</b>		<b>3,843.445 1</b>

Mitigated - San Luis Ranch Project - 2019 Start - San Luis Obispo County APCD Air District, Summer

**3.2 Demolition - 2019**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0271	0.9180	0.1973	2.1300e-003	0.0465	5.5200e-003	0.0520	0.0127	5.2800e-003	0.0180		229.4602	229.4602	0.0128		229.7792
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	0.0705	0.0608	0.6028	1.4400e-003	0.1483	9.8000e-004	0.1493	0.0393	9.1000e-004	0.0402		143.0023	143.0023	5.2500e-003		143.1336
<b>Total</b>	<b>0.0976</b>	<b>0.9788</b>	<b>0.8001</b>	<b>3.5700e-003</b>	<b>0.1948</b>	<b>6.5000e-003</b>	<b>0.2013</b>	<b>0.0521</b>	<b>6.1900e-003</b>	<b>0.0583</b>		<b>372.4624</b>	<b>372.4624</b>	<b>0.0180</b>		<b>372.9128</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5952	0.0000	0.5952	0.0901	0.0000	0.0901			0.0000			0.0000
Off-Road	0.9246	18.3130	24.6739	0.0388		0.4314	0.4314		0.4314	0.4314	0.0000	3,816.8994	3,816.8994	1.0618		3,843.4451
<b>Total</b>	<b>0.9246</b>	<b>18.3130</b>	<b>24.6739</b>	<b>0.0388</b>	<b>0.5952</b>	<b>0.4314</b>	<b>1.0265</b>	<b>0.0901</b>	<b>0.4314</b>	<b>0.5215</b>	<b>0.0000</b>	<b>3,816.8994</b>	<b>3,816.8994</b>	<b>1.0618</b>		<b>3,843.4451</b>

Mitigated - San Luis Ranch Project - 2019 Start - San Luis Obispo County APCD Air District, Summer

**3.2 Demolition - 2019**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0271	0.9180	0.1973	2.1300e-003	0.0465	5.5200e-003	0.0520	0.0127	5.2800e-003	0.0180		229.4602	229.4602	0.0128		229.7792
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	0.0705	0.0608	0.6028	1.4400e-003	0.1483	9.8000e-004	0.1493	0.0393	9.1000e-004	0.0402		143.0023	143.0023	5.2500e-003		143.1336
<b>Total</b>	<b>0.0976</b>	<b>0.9788</b>	<b>0.8001</b>	<b>3.5700e-003</b>	<b>0.1948</b>	<b>6.5000e-003</b>	<b>0.2013</b>	<b>0.0521</b>	<b>6.1900e-003</b>	<b>0.0583</b>		<b>372.4624</b>	<b>372.4624</b>	<b>0.0180</b>		<b>372.9128</b>

**3.3 Site Preparation - 2019**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.3350	45.5727	22.0630	0.0380		2.3904	2.3904		2.1991	2.1991		3,766.4529	3,766.4529	1.1917		3,796.2445
<b>Total</b>	<b>4.3350</b>	<b>45.5727</b>	<b>22.0630</b>	<b>0.0380</b>	<b>18.0663</b>	<b>2.3904</b>	<b>20.4566</b>	<b>9.9307</b>	<b>2.1991</b>	<b>12.1298</b>		<b>3,766.4529</b>	<b>3,766.4529</b>	<b>1.1917</b>		<b>3,796.2445</b>

Mitigated - San Luis Ranch Project - 2019 Start - San Luis Obispo County APCD Air District, Summer

**3.3 Site Preparation - 2019**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0846	0.0729	0.7233	1.7200e-003	0.1780	1.1800e-003	0.1791	0.0472	1.0900e-003	0.0483		171.6027	171.6027	6.3000e-003		171.7603
<b>Total</b>	<b>0.0846</b>	<b>0.0729</b>	<b>0.7233</b>	<b>1.7200e-003</b>	<b>0.1780</b>	<b>1.1800e-003</b>	<b>0.1791</b>	<b>0.0472</b>	<b>1.0900e-003</b>	<b>0.0483</b>		<b>171.6027</b>	<b>171.6027</b>	<b>6.3000e-003</b>		<b>171.7603</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	0.9312	19.0656	22.9600	0.0380		0.4731	0.4731		0.4731	0.4731	0.0000	3,766.4529	3,766.4529	1.1917		3,796.2445
<b>Total</b>	<b>0.9312</b>	<b>19.0656</b>	<b>22.9600</b>	<b>0.0380</b>	<b>18.0663</b>	<b>0.4731</b>	<b>18.5393</b>	<b>9.9307</b>	<b>0.4731</b>	<b>10.4038</b>	<b>0.0000</b>	<b>3,766.4529</b>	<b>3,766.4529</b>	<b>1.1917</b>		<b>3,796.2445</b>

Mitigated - San Luis Ranch Project - 2019 Start - San Luis Obispo County APCD Air District, Summer

**3.3 Site Preparation - 2019**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0846	0.0729	0.7233	1.7200e-003	0.1780	1.1800e-003	0.1791	0.0472	1.0900e-003	0.0483		171.6027	171.6027	6.3000e-003		171.7603
<b>Total</b>	<b>0.0846</b>	<b>0.0729</b>	<b>0.7233</b>	<b>1.7200e-003</b>	<b>0.1780</b>	<b>1.1800e-003</b>	<b>0.1791</b>	<b>0.0472</b>	<b>1.0900e-003</b>	<b>0.0483</b>		<b>171.6027</b>	<b>171.6027</b>	<b>6.3000e-003</b>		<b>171.7603</b>

**3.4 Grading - 2019**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.0182	0.0000	9.0182	3.6487	0.0000	3.6487			0.0000			0.0000
Off-Road	4.7389	54.5202	33.3768	0.0620		2.3827	2.3827		2.1920	2.1920		6,140.0195	6,140.0195	1.9426		6,188.5854
<b>Total</b>	<b>4.7389</b>	<b>54.5202</b>	<b>33.3768</b>	<b>0.0620</b>	<b>9.0182</b>	<b>2.3827</b>	<b>11.4009</b>	<b>3.6487</b>	<b>2.1920</b>	<b>5.8408</b>		<b>6,140.0195</b>	<b>6,140.0195</b>	<b>1.9426</b>		<b>6,188.5854</b>

Mitigated - San Luis Ranch Project - 2019 Start - San Luis Obispo County APCD Air District, Summer

**3.4 Grading - 2019**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	2.3832	80.6321	17.3329	0.1873	4.0853	0.4852	4.5705	1.1190	0.4642	1.5832		20,154.2534	20,154.2534	1.1208		20,182.2724
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	0.0940	0.0810	0.8037	1.9200e-003	0.1977	1.3100e-003	0.1990	0.0524	1.2100e-003	0.0537		190.6697	190.6697	7.0000e-003		190.8448
<b>Total</b>	<b>2.4771</b>	<b>80.7132</b>	<b>18.1367</b>	<b>0.1892</b>	<b>4.2831</b>	<b>0.4865</b>	<b>4.7696</b>	<b>1.1714</b>	<b>0.4654</b>	<b>1.6368</b>		<b>20,344.9231</b>	<b>20,344.9231</b>	<b>1.1278</b>		<b>20,373.1171</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.0182	0.0000	9.0182	3.6487	0.0000	3.6487			0.0000			0.0000
Off-Road	1.5231	29.9782	36.7226	0.0620		0.6497	0.6497		0.6497	0.6497	0.0000	6,140.0195	6,140.0195	1.9426		6,188.5854
<b>Total</b>	<b>1.5231</b>	<b>29.9782</b>	<b>36.7226</b>	<b>0.0620</b>	<b>9.0182</b>	<b>0.6497</b>	<b>9.6679</b>	<b>3.6487</b>	<b>0.6497</b>	<b>4.2984</b>	<b>0.0000</b>	<b>6,140.0195</b>	<b>6,140.0195</b>	<b>1.9426</b>		<b>6,188.5854</b>

Mitigated - San Luis Ranch Project - 2019 Start - San Luis Obispo County APCD Air District, Summer

**3.4 Grading - 2019**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	2.3832	80.6321	17.3329	0.1873	4.0853	0.4852	4.5705	1.1190	0.4642	1.5832		20,154.2534	20,154.2534	1.1208		20,182.2724
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	0.0940	0.0810	0.8037	1.9200e-003	0.1977	1.3100e-003	0.1990	0.0524	1.2100e-003	0.0537		190.6697	190.6697	7.0000e-003		190.8448
<b>Total</b>	<b>2.4771</b>	<b>80.7132</b>	<b>18.1367</b>	<b>0.1892</b>	<b>4.2831</b>	<b>0.4865</b>	<b>4.7696</b>	<b>1.1714</b>	<b>0.4654</b>	<b>1.6368</b>		<b>20,344.9231</b>	<b>20,344.9231</b>	<b>1.1278</b>		<b>20,373.1171</b>

**3.5 Building Construction - 2019**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127		2,591.5802	2,591.5802	0.6313		2,607.3635
<b>Total</b>	<b>2.3612</b>	<b>21.0788</b>	<b>17.1638</b>	<b>0.0269</b>		<b>1.2899</b>	<b>1.2899</b>		<b>1.2127</b>	<b>1.2127</b>		<b>2,591.5802</b>	<b>2,591.5802</b>	<b>0.6313</b>		<b>2,607.3635</b>



Mitigated - San Luis Ranch Project - 2019 Start - San Luis Obispo County APCD Air District, Summer

**3.5 Building Construction - 2019**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.4759	11.7437	3.4953	0.0210	0.4827	0.0938	0.5765	0.1390	0.0898	0.2288		2,236.0591	2,236.0591	0.1373		2,239.4926
Worker	1.6488	1.4218	14.1052	0.0336	3.4700	0.0229	3.4930	0.9203	0.0212	0.9415		3,346.2526	3,346.2526	0.1229		3,349.3257
<b>Total</b>	<b>2.1247</b>	<b>13.1655</b>	<b>17.6005</b>	<b>0.0547</b>	<b>3.9527</b>	<b>0.1168</b>	<b>4.0695</b>	<b>1.0593</b>	<b>0.1109</b>	<b>1.1703</b>		<b>5,582.3116</b>	<b>5,582.3116</b>	<b>0.2603</b>		<b>5,588.8184</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6739	14.2261	17.8738	0.0269		0.4518	0.4518		0.4518	0.4518	0.0000	2,591.5802	2,591.5802	0.6313		2,607.3635
<b>Total</b>	<b>0.6739</b>	<b>14.2261</b>	<b>17.8738</b>	<b>0.0269</b>		<b>0.4518</b>	<b>0.4518</b>		<b>0.4518</b>	<b>0.4518</b>	<b>0.0000</b>	<b>2,591.5802</b>	<b>2,591.5802</b>	<b>0.6313</b>		<b>2,607.3635</b>

Mitigated - San Luis Ranch Project - 2019 Start - San Luis Obispo County APCD Air District, Summer

**3.5 Building Construction - 2019**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.4759	11.7437	3.4953	0.0210	0.4827	0.0938	0.5765	0.1390	0.0898	0.2288		2,236.0591	2,236.0591	0.1373		2,239.4926
Worker	1.6488	1.4218	14.1052	0.0336	3.4700	0.0229	3.4930	0.9203	0.0212	0.9415		3,346.2526	3,346.2526	0.1229		3,349.3257
<b>Total</b>	<b>2.1247</b>	<b>13.1655</b>	<b>17.6005</b>	<b>0.0547</b>	<b>3.9527</b>	<b>0.1168</b>	<b>4.0695</b>	<b>1.0593</b>	<b>0.1109</b>	<b>1.1703</b>		<b>5,582.3116</b>	<b>5,582.3116</b>	<b>0.2603</b>		<b>5,588.8184</b>

**3.5 Building Construction - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503		2,553.0631	2,553.0631	0.6229		2,568.6345
<b>Total</b>	<b>2.1198</b>	<b>19.1860</b>	<b>16.8485</b>	<b>0.0269</b>		<b>1.1171</b>	<b>1.1171</b>		<b>1.0503</b>	<b>1.0503</b>		<b>2,553.0631</b>	<b>2,553.0631</b>	<b>0.6229</b>		<b>2,568.6345</b>

Mitigated - San Luis Ranch Project - 2019 Start - San Luis Obispo County APCD Air District, Summer

**3.5 Building Construction - 2020**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3771	10.7332	3.0758	0.0210	0.4828	0.0583	0.5410	0.1390	0.0557	0.1948		2,233.937 2	2,233.937 2	0.1285		2,237.148 6
Worker	1.5013	1.2523	12.4593	0.0326	3.4700	0.0222	3.4922	0.9203	0.0205	0.9408		3,242.844 4	3,242.844 4	0.1057		3,245.487 0
<b>Total</b>	<b>1.8784</b>	<b>11.9855</b>	<b>15.5351</b>	<b>0.0536</b>	<b>3.9528</b>	<b>0.0805</b>	<b>4.0333</b>	<b>1.0594</b>	<b>0.0762</b>	<b>1.1356</b>		<b>5,476.781 6</b>	<b>5,476.781 6</b>	<b>0.2342</b>		<b>5,482.635 6</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6739	14.2261	17.8738	0.0269		0.4518	0.4518		0.4518	0.4518	0.0000	2,553.063 1	2,553.063 1	0.6229		2,568.634 5
<b>Total</b>	<b>0.6739</b>	<b>14.2261</b>	<b>17.8738</b>	<b>0.0269</b>		<b>0.4518</b>	<b>0.4518</b>		<b>0.4518</b>	<b>0.4518</b>	<b>0.0000</b>	<b>2,553.063 1</b>	<b>2,553.063 1</b>	<b>0.6229</b>		<b>2,568.634 5</b>

Mitigated - San Luis Ranch Project - 2019 Start - San Luis Obispo County APCD Air District, Summer

**3.5 Building Construction - 2020**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3771	10.7332	3.0758	0.0210	0.4828	0.0583	0.5410	0.1390	0.0557	0.1948		2,233.937 2	2,233.937 2	0.1285		2,237.148 6
Worker	1.5013	1.2523	12.4593	0.0326	3.4700	0.0222	3.4922	0.9203	0.0205	0.9408		3,242.844 4	3,242.844 4	0.1057		3,245.487 0
<b>Total</b>	<b>1.8784</b>	<b>11.9855</b>	<b>15.5351</b>	<b>0.0536</b>	<b>3.9528</b>	<b>0.0805</b>	<b>4.0333</b>	<b>1.0594</b>	<b>0.0762</b>	<b>1.1356</b>		<b>5,476.781 6</b>	<b>5,476.781 6</b>	<b>0.2342</b>		<b>5,482.635 6</b>

**3.5 Building Construction - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013		2,553.363 9	2,553.363 9	0.6160		2,568.764 3
<b>Total</b>	<b>1.9009</b>	<b>17.4321</b>	<b>16.5752</b>	<b>0.0269</b>		<b>0.9586</b>	<b>0.9586</b>		<b>0.9013</b>	<b>0.9013</b>		<b>2,553.363 9</b>	<b>2,553.363 9</b>	<b>0.6160</b>		<b>2,568.764 3</b>

Mitigated - San Luis Ranch Project - 2019 Start - San Luis Obispo County APCD Air District, Summer

**3.5 Building Construction - 2021**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3082	9.8302	2.7125	0.0209	0.4829	0.0276	0.5104	0.1391	0.0264	0.1655		2,220.9868	2,220.9868	0.1251		2,224.1153
Worker	1.3982	1.1200	11.3144	0.0315	3.4700	0.0215	3.4915	0.9203	0.0198	0.9401		3,132.3319	3,132.3319	0.0941		3,134.6835
<b>Total</b>	<b>1.7065</b>	<b>10.9503</b>	<b>14.0268</b>	<b>0.0523</b>	<b>3.9529</b>	<b>0.0491</b>	<b>4.0020</b>	<b>1.0594</b>	<b>0.0462</b>	<b>1.1056</b>		<b>5,353.3187</b>	<b>5,353.3187</b>	<b>0.2192</b>		<b>5,358.7988</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6739	14.2261	17.8738	0.0269		0.4518	0.4518		0.4518	0.4518	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643
<b>Total</b>	<b>0.6739</b>	<b>14.2261</b>	<b>17.8738</b>	<b>0.0269</b>		<b>0.4518</b>	<b>0.4518</b>		<b>0.4518</b>	<b>0.4518</b>	<b>0.0000</b>	<b>2,553.3639</b>	<b>2,553.3639</b>	<b>0.6160</b>		<b>2,568.7643</b>

Mitigated - San Luis Ranch Project - 2019 Start - San Luis Obispo County APCD Air District, Summer

**3.5 Building Construction - 2021**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3082	9.8302	2.7125	0.0209	0.4829	0.0276	0.5104	0.1391	0.0264	0.1655		2,220.9868	2,220.9868	0.1251		2,224.1153
Worker	1.3982	1.1200	11.3144	0.0315	3.4700	0.0215	3.4915	0.9203	0.0198	0.9401		3,132.3319	3,132.3319	0.0941		3,134.6835
<b>Total</b>	<b>1.7065</b>	<b>10.9503</b>	<b>14.0268</b>	<b>0.0523</b>	<b>3.9529</b>	<b>0.0491</b>	<b>4.0020</b>	<b>1.0594</b>	<b>0.0462</b>	<b>1.1056</b>		<b>5,353.3187</b>	<b>5,353.3187</b>	<b>0.2192</b>		<b>5,358.7988</b>

**3.6 Architectural Coating - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	7.6992					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2422	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109		281.4481	281.4481	0.0218		281.9928
<b>Total</b>	<b>7.9413</b>	<b>1.6838</b>	<b>1.8314</b>	<b>2.9700e-003</b>		<b>0.1109</b>	<b>0.1109</b>		<b>0.1109</b>	<b>0.1109</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0218</b>		<b>281.9928</b>

Mitigated - San Luis Ranch Project - 2019 Start - San Luis Obispo County APCD Air District, Summer

**3.6 Architectural Coating - 2020**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	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	0.2994	0.2498	2.4848	6.5000e-003	0.6920	4.4300e-003	0.6965	0.1835	4.0800e-003	0.1876		646.7211	646.7211	0.0211		647.2481
<b>Total</b>	<b>0.2994</b>	<b>0.2498</b>	<b>2.4848</b>	<b>6.5000e-003</b>	<b>0.6920</b>	<b>4.4300e-003</b>	<b>0.6965</b>	<b>0.1835</b>	<b>4.0800e-003</b>	<b>0.1876</b>		<b>646.7211</b>	<b>646.7211</b>	<b>0.0211</b>		<b>647.2481</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	7.6992					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0594	1.3570	1.8324	2.9700e-003		0.0475	0.0475		0.0475	0.0475	0.0000	281.4481	281.4481	0.0218		281.9928
<b>Total</b>	<b>7.7586</b>	<b>1.3570</b>	<b>1.8324</b>	<b>2.9700e-003</b>		<b>0.0475</b>	<b>0.0475</b>		<b>0.0475</b>	<b>0.0475</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0218</b>		<b>281.9928</b>

Mitigated - San Luis Ranch Project - 2019 Start - San Luis Obispo County APCD Air District, Summer

**3.6 Architectural Coating - 2020**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	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	0.2994	0.2498	2.4848	6.5000e-003	0.6920	4.4300e-003	0.6965	0.1835	4.0800e-003	0.1876		646.7211	646.7211	0.0211		647.2481
<b>Total</b>	<b>0.2994</b>	<b>0.2498</b>	<b>2.4848</b>	<b>6.5000e-003</b>	<b>0.6920</b>	<b>4.4300e-003</b>	<b>0.6965</b>	<b>0.1835</b>	<b>4.0800e-003</b>	<b>0.1876</b>		<b>646.7211</b>	<b>646.7211</b>	<b>0.0211</b>		<b>647.2481</b>

**3.6 Architectural Coating - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	7.6992					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309
<b>Total</b>	<b>7.9181</b>	<b>1.5268</b>	<b>1.8176</b>	<b>2.9700e-003</b>		<b>0.0941</b>	<b>0.0941</b>		<b>0.0941</b>	<b>0.0941</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0193</b>		<b>281.9309</b>



Mitigated - San Luis Ranch Project - 2019 Start - San Luis Obispo County APCD Air District, Summer

**3.6 Architectural Coating - 2021**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2789	0.2234	2.2564	6.2700e-003	0.6920	4.2900e-003	0.6963	0.1835	3.9500e-003	0.1875		624.6816	624.6816	0.0188		625.1506
<b>Total</b>	<b>0.2789</b>	<b>0.2234</b>	<b>2.2564</b>	<b>6.2700e-003</b>	<b>0.6920</b>	<b>4.2900e-003</b>	<b>0.6963</b>	<b>0.1835</b>	<b>3.9500e-003</b>	<b>0.1875</b>		<b>624.6816</b>	<b>624.6816</b>	<b>0.0188</b>		<b>625.1506</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	7.6992					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0594	1.3570	1.8324	2.9700e-003		0.0475	0.0475		0.0475	0.0475	0.0000	281.4481	281.4481	0.0193		281.9309
<b>Total</b>	<b>7.7586</b>	<b>1.3570</b>	<b>1.8324</b>	<b>2.9700e-003</b>		<b>0.0475</b>	<b>0.0475</b>		<b>0.0475</b>	<b>0.0475</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0193</b>		<b>281.9309</b>

Mitigated - San Luis Ranch Project - 2019 Start - San Luis Obispo County APCD Air District, Summer

**3.6 Architectural Coating - 2021**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2789	0.2234	2.2564	6.2700e-003	0.6920	4.2900e-003	0.6963	0.1835	3.9500e-003	0.1875		624.6816	624.6816	0.0188		625.1506
<b>Total</b>	<b>0.2789</b>	<b>0.2234</b>	<b>2.2564</b>	<b>6.2700e-003</b>	<b>0.6920</b>	<b>4.2900e-003</b>	<b>0.6963</b>	<b>0.1835</b>	<b>3.9500e-003</b>	<b>0.1875</b>		<b>624.6816</b>	<b>624.6816</b>	<b>0.0188</b>		<b>625.1506</b>

**3.7 Paving - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235		2,207.2109	2,207.2109	0.7139		2,225.0573
Paving	0.3294					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.5849</b>	<b>12.9191</b>	<b>14.6532</b>	<b>0.0228</b>		<b>0.6777</b>	<b>0.6777</b>		<b>0.6235</b>	<b>0.6235</b>		<b>2,207.2109</b>	<b>2,207.2109</b>	<b>0.7139</b>		<b>2,225.0573</b>

Mitigated - San Luis Ranch Project - 2019 Start - San Luis Obispo County APCD Air District, Summer

**3.7 Paving - 2021**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0598	0.0479	0.4835	1.3400e-003	0.1483	9.2000e-004	0.1492	0.0393	8.5000e-004	0.0402		133.8603	133.8603	4.0200e-003		133.9608
<b>Total</b>	<b>0.0598</b>	<b>0.0479</b>	<b>0.4835</b>	<b>1.3400e-003</b>	<b>0.1483</b>	<b>9.2000e-004</b>	<b>0.1492</b>	<b>0.0393</b>	<b>8.5000e-004</b>	<b>0.0402</b>		<b>133.8603</b>	<b>133.8603</b>	<b>4.0200e-003</b>		<b>133.9608</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5609	11.2952	17.2957	0.0228		0.3047	0.3047		0.3047	0.3047	0.0000	2,207.2109	2,207.2109	0.7139		2,225.0573
Paving	0.3294					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.8903</b>	<b>11.2952</b>	<b>17.2957</b>	<b>0.0228</b>		<b>0.3047</b>	<b>0.3047</b>		<b>0.3047</b>	<b>0.3047</b>	<b>0.0000</b>	<b>2,207.2109</b>	<b>2,207.2109</b>	<b>0.7139</b>		<b>2,225.0573</b>

Mitigated - San Luis Ranch Project - 2019 Start - San Luis Obispo County APCD Air District, Summer

**3.7 Paving - 2021**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0598	0.0479	0.4835	1.3400e-003	0.1483	9.2000e-004	0.1492	0.0393	8.5000e-004	0.0402		133.8603	133.8603	4.0200e-003		133.9608
<b>Total</b>	<b>0.0598</b>	<b>0.0479</b>	<b>0.4835</b>	<b>1.3400e-003</b>	<b>0.1483</b>	<b>9.2000e-004</b>	<b>0.1492</b>	<b>0.0393</b>	<b>8.5000e-004</b>	<b>0.0402</b>		<b>133.8603</b>	<b>133.8603</b>	<b>4.0200e-003</b>		<b>133.9608</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

Mitigated - San Luis Ranch Project - 2019 Start - San Luis Obispo County APCD Air District, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	2.9091	11.2388	30.6504	0.0920	8.3620	0.0916	8.4536	2.2338	0.0859	2.3198		9,277.8426	9,277.8426	0.3582		9,286.7964
Unmitigated	2.9091	11.2388	30.6504	0.0920	8.3620	0.0916	8.4536	2.2338	0.0859	2.3198		9,277.8426	9,277.8426	0.3582		9,286.7964

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	1,002.73	1,042.13	908.17	2,528,468	2,528,468
City Park	0.00	0.00	0.00		
General Office Building	300.00	67.00	28.50	518,513	518,513
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Regional Shopping Center	221.75	259.50	131.00	309,253	309,253
Single Family Housing	91.62	95.22	82.98	231,028	231,028
<b>Total</b>	<b>1,616.10</b>	<b>1,463.85</b>	<b>1,150.65</b>	<b>3,587,261</b>	<b>3,587,261</b>

4.3 Trip Type Information

Mitigated - San Luis Ranch Project - 2019 Start - San Luis Obispo County APCD Air District, Summer

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
Apartments Mid Rise	13.00	5.00	5.00	35.80	21.00	43.20	86	11	3
City Park	13.00	5.00	5.00	33.00	48.00	19.00	66	28	6
General Office Building	13.00	5.00	5.00	33.00	48.00	19.00	77	19	4
Parking Lot	13.00	5.00	5.00	0.00	0.00	0.00	0	0	0
Parking Lot	13.00	5.00	5.00	0.00	0.00	0.00	0	0	0
Parking Lot	13.00	5.00	5.00	0.00	0.00	0.00	0	0	0
Regional Shopping Center	13.00	5.00	5.00	16.30	64.70	19.00	54	35	11
Single Family Housing	13.00	5.00	5.00	35.80	21.00	43.20	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	0.575581	0.029595	0.198288	0.120539	0.026172	0.006482	0.012911	0.019591	0.002354	0.001214	0.005068	0.000784	0.001422
Parking Lot	0.575581	0.029595	0.198288	0.120539	0.026172	0.006482	0.012911	0.019591	0.002354	0.001214	0.005068	0.000784	0.001422
Parking Lot	0.575581	0.029595	0.198288	0.120539	0.026172	0.006482	0.012911	0.019591	0.002354	0.001214	0.005068	0.000784	0.001422
Parking Lot	0.575581	0.029595	0.198288	0.120539	0.026172	0.006482	0.012911	0.019591	0.002354	0.001214	0.005068	0.000784	0.001422
City Park	0.575581	0.029595	0.198288	0.120539	0.026172	0.006482	0.012911	0.019591	0.002354	0.001214	0.005068	0.000784	0.001422
Apartments Mid Rise	0.575581	0.029595	0.198288	0.120539	0.026172	0.006482	0.012911	0.019591	0.002354	0.001214	0.005068	0.000784	0.001422
Single Family Housing	0.575581	0.029595	0.198288	0.120539	0.026172	0.006482	0.012911	0.019591	0.002354	0.001214	0.005068	0.000784	0.001422
Regional Shopping Center	0.575581	0.029595	0.198288	0.120539	0.026172	0.006482	0.012911	0.019591	0.002354	0.001214	0.005068	0.000784	0.001422

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Install Energy Efficient Appliances

Mitigated - San Luis Ranch Project - 2019 Start - San Luis Obispo County APCD Air District, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0820	0.7067	0.3427	4.4700e-003		0.0566	0.0566		0.0566	0.0566		894.3651	894.3651	0.0171	0.0164	899.6798
NaturalGas Unmitigated	0.0975	0.8404	0.4100	5.3200e-003		0.0673	0.0673		0.0673	0.0673		1,063.1759	1,063.1759	0.0204	0.0195	1,069.4938

Mitigated - San Luis Ranch Project - 2019 Start - San Luis Obispo County APCD Air District, Summer

**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					
Apartments Mid Rise	5974.27	0.0644	0.5506	0.2343	3.5100e-003		0.0445	0.0445		0.0445	0.0445		702.8547	702.8547	0.0135	0.0129	707.0314
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
General Office Building	1126.71	0.0122	0.1105	0.0928	6.6000e-004		8.4000e-003	8.4000e-003		8.4000e-003	8.4000e-003		132.5544	132.5544	2.5400e-003	2.4300e-003	133.3421
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	163.014	1.7600e-003	0.0160	0.0134	1.0000e-004		1.2100e-003	1.2100e-003		1.2100e-003	1.2100e-003		19.1781	19.1781	3.7000e-004	3.5000e-004	19.2921
Single Family Housing	1773	0.0191	0.1634	0.0695	1.0400e-003		0.0132	0.0132		0.0132	0.0132		208.5887	208.5887	4.0000e-003	3.8200e-003	209.8282
<b>Total</b>		<b>0.0975</b>	<b>0.8404</b>	<b>0.4100</b>	<b>5.3100e-003</b>		<b>0.0673</b>	<b>0.0673</b>		<b>0.0673</b>	<b>0.0673</b>		<b>1,063.1759</b>	<b>1,063.1759</b>	<b>0.0204</b>	<b>0.0195</b>	<b>1,069.4938</b>



Mitigated - San Luis Ranch Project - 2019 Start - San Luis Obispo County APCD Air District, Summer

**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					
Apartments Mid Rise	5.11998	0.0552	0.4718	0.2008	3.0100e-003		0.0382	0.0382		0.0382	0.0382		602.3505	602.3505	0.0116	0.0110	605.9300
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
General Office Building	0.902192	9.7300e-003	0.0885	0.0743	5.3000e-004		6.7200e-003	6.7200e-003		6.7200e-003	6.7200e-003		106.1402	106.1402	2.0300e-003	1.9500e-003	106.7710
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	0.130411	1.4100e-003	0.0128	0.0107	8.0000e-005		9.7000e-004	9.7000e-004		9.7000e-004	9.7000e-004		15.3425	15.3425	2.9000e-004	2.8000e-004	15.4336
Single Family Housing	1.44952	0.0156	0.1336	0.0568	8.5000e-004		0.0108	0.0108		0.0108	0.0108		170.5319	170.5319	3.2700e-003	3.1300e-003	171.5453
<b>Total</b>		<b>0.0820</b>	<b>0.7067</b>	<b>0.3427</b>	<b>4.4700e-003</b>		<b>0.0566</b>	<b>0.0566</b>		<b>0.0566</b>	<b>0.0566</b>		<b>894.3651</b>	<b>894.3651</b>	<b>0.0171</b>	<b>0.0164</b>	<b>899.6798</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

No Hearths Installed

Mitigated - San Luis Ranch Project - 2019 Start - San Luis Obispo County APCD Air District, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	8.9027	0.2048	17.7630	9.4000e-004		0.0981	0.0981		0.0981	0.0981	0.0000	31.9519	31.9519	0.0309	0.0000	32.7231
Unmitigated	8.9027	0.2048	17.7630	9.4000e-004		0.0981	0.0981		0.0981	0.0981	0.0000	31.9519	31.9519	0.0309	0.0000	32.7231

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	2.3057					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	6.0601					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.5369	0.2048	17.7630	9.4000e-004		0.0981	0.0981		0.0981	0.0981		31.9519	31.9519	0.0309		32.7231
<b>Total</b>	<b>8.9027</b>	<b>0.2048</b>	<b>17.7630</b>	<b>9.4000e-004</b>		<b>0.0981</b>	<b>0.0981</b>		<b>0.0981</b>	<b>0.0981</b>	<b>0.0000</b>	<b>31.9519</b>	<b>31.9519</b>	<b>0.0309</b>	<b>0.0000</b>	<b>32.7231</b>

Mitigated - San Luis Ranch Project - 2019 Start - San Luis Obispo County APCD Air District, Summer

**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	2.3057					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	6.0601					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.5369	0.2048	17.7630	9.4000e-004		0.0981	0.0981		0.0981	0.0981		31.9519	31.9519	0.0309		32.7231
<b>Total</b>	<b>8.9027</b>	<b>0.2048</b>	<b>17.7630</b>	<b>9.4000e-004</b>		<b>0.0981</b>	<b>0.0981</b>		<b>0.0981</b>	<b>0.0981</b>	<b>0.0000</b>	<b>31.9519</b>	<b>31.9519</b>	<b>0.0309</b>	<b>0.0000</b>	<b>32.7231</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

Use Reclaimed Water

**8.0 Waste Detail**

**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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Mitigated - San Luis Ranch Project - 2019 Start - San Luis Obispo County APCD Air District, Summer

## 10.0 Stationary Equipment

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### Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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## 11.0 Vegetation

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Mitigated - San Luis Ranch Project - 2019 Start - San Luis Obispo County APCD Air District, Winter

**Mitigated - San Luis Ranch Project - 2019 Start**  
**San Luis Obispo County APCD Air District, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	25.00	1000sqft	0.63	25,000.00	0
Parking Lot	1.90	Acre	1.90	82,764.00	0
Parking Lot	1.80	Acre	1.80	78,408.00	0
Parking Lot	0.70	Acre	0.70	30,492.00	0
City Park	5.80	Acre	5.80	252,648.00	0
Apartments Mid Rise	197.00	Dwelling Unit	7.20	197,000.00	563
Single Family Housing	18.00	Dwelling Unit	9.10	32,400.00	51
Regional Shopping Center	25.00	1000sqft	0.57	25,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	3.2	<b>Precipitation Freq (Days)</b>	44
<b>Climate Zone</b>	4			<b>Operational Year</b>	2022
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	641.35	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

**1.3 User Entered Comments & Non-Default Data**

Mitigated - San Luis Ranch Project - 2019 Start - San Luis Obispo County APCD Air District, Winter

Project Characteristics -

Land Use - Land use values from buildout and phasing in Specific Plan Section 7.7. Includes portions of Phases 1, 2, 3, 5, and 6; and Dalidio improvements.

Construction Phase - No demolition in phases 1, 2, 4, 5 and 6. AC expected to overlap with half of building construction as painting would occur as buildings are finished.

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Demolition - Building sf estimated using Google Earth

Grading - Total import proportionally distributed by phase acreage.

Architectural Coating - Per MM AQ-2

Vehicle Trips - Trip generation rate based on Omni-Means 2016 Traffic Impact Study.

Woodstoves - PEr MM AQ-3

Construction Off-road Equipment Mitigation - per MM AQ-2

Mobile Land Use Mitigation - Trip reductions from project's density, diversity, and access to alternative transportation accounted for in trip generation rates.

Area Mitigation - Per MM AQ-3

Energy Mitigation - Per Specific Plan, appliances will be energy efficient. Exceed Title 24 per MM AQ-3

Water Mitigation - Total outdoor water use for these land uses = 20.7 Mgal, with park at 6.9 Mgal; Park using reclaimed = 33% of total.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	50.00
tblArchitecturalCoating	EF_Parking	150.00	50.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	50.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	50.00
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	0
tblConstEquipMitigation	DPF	No Change	Level 2
tblConstEquipMitigation	DPF	No Change	Level 2
tblConstEquipMitigation	DPF	No Change	Level 2

Mitigated - San Luis Ranch Project - 2019 Start - San Luis Obispo County APCD Air District, Winter

tblConstEquipMitigation	DPF	No Change	Level 2
tblConstEquipMitigation	DPF	No Change	Level 2
tblConstEquipMitigation	DPF	No Change	Level 2
tblConstEquipMitigation	DPF	No Change	Level 2
tblConstEquipMitigation	DPF	No Change	Level 2
tblConstEquipMitigation	DPF	No Change	Level 2
tblConstEquipMitigation	DPF	No Change	Level 2
tblConstEquipMitigation	DPF	No Change	Level 2
tblConstEquipMitigation	DPF	No Change	Level 2
tblConstEquipMitigation	DPF	No Change	Level 2
tblConstEquipMitigation	DPF	No Change	Level 2
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3

Mitigated - San Luis Ranch Project - 2019 Start - San Luis Obispo County APCD Air District, Winter

tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	35.00	220.00
tblGrading	MaterialImported	0.00	84,320.00
tblLandUse	LotAcreage	0.57	0.63
tblLandUse	LotAcreage	5.18	7.20
tblLandUse	LotAcreage	5.84	9.10
tblProjectCharacteristics	OperationalYear	2018	2022
tblVehicleTrips	ST_TR	6.39	5.29
tblVehicleTrips	ST_TR	22.75	0.00
tblVehicleTrips	ST_TR	2.46	2.68
tblVehicleTrips	ST_TR	49.97	10.38
tblVehicleTrips	ST_TR	9.91	5.29
tblVehicleTrips	SU_TR	5.86	4.61
tblVehicleTrips	SU_TR	16.74	0.00
tblVehicleTrips	SU_TR	1.05	1.14
tblVehicleTrips	SU_TR	25.24	5.24



## Mitigated - San Luis Ranch Project - 2019 Start - San Luis Obispo County APCD Air District, Winter

tblVehicleTrips	SU_TR	8.62	4.61
tblVehicleTrips	WD_TR	6.65	5.09
tblVehicleTrips	WD_TR	1.89	0.00
tblVehicleTrips	WD_TR	11.03	12.00
tblVehicleTrips	WD_TR	42.70	8.87
tblVehicleTrips	WD_TR	9.52	5.09
tblWoodstoves	WoodstoveDayYear	60.00	0.00
tblWoodstoves	WoodstoveDayYear	60.00	0.00
tblWoodstoves	WoodstoveWoodMass	2,016.00	0.00
tblWoodstoves	WoodstoveWoodMass	2,016.00	0.00

## 2.0 Emissions Summary

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Mitigated - San Luis Ranch Project - 2019 Start - San Luis Obispo County APCD Air District, Winter

**2.1 Overall Construction (Maximum Daily Emission)**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2019	7.2923	135.8726	52.6197	0.2485	18.2442	2.8795	20.6358	9.9779	2.6674	12.1781	0.0000	26,192.19 57	26,192.19 57	3.1081	0.0000	26,269.89 72
2020	12.5126	33.2546	36.6823	0.0875	4.6448	1.3147	5.9595	1.2429	1.2433	2.4862	0.0000	8,708.382 1	8,708.382 1	0.9046	0.0000	8,730.996 9
2021	12.0627	30.2492	34.6315	0.0861	4.6449	1.1077	5.7526	1.2429	1.0471	2.2900	0.0000	8,568.733 4	8,568.733 4	0.8782	0.0000	8,590.687 8
<b>Maximum</b>	<b>12.5126</b>	<b>135.8726</b>	<b>52.6197</b>	<b>0.2485</b>	<b>18.2442</b>	<b>2.8795</b>	<b>20.6358</b>	<b>9.9779</b>	<b>2.6674</b>	<b>12.1781</b>	<b>0.0000</b>	<b>26,192.19 57</b>	<b>26,192.19 57</b>	<b>3.1081</b>	<b>0.0000</b>	<b>26,269.89 72</b>

**Mitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2019	4.0765	111.3307	55.9656	0.2485	18.2442	1.1466	18.7185	9.9779	1.1250	10.4520	0.0000	26,192.19 57	26,192.19 57	3.1081	0.0000	26,269.89 72
2020	10.8839	27.9678	37.7086	0.0875	4.6448	0.5860	5.2308	1.2429	0.5814	1.8243	0.0000	8,708.382 1	8,708.382 1	0.9046	0.0000	8,730.996 9
2021	10.6762	26.8733	35.9449	0.0861	4.6449	0.5543	5.1992	1.2429	0.5510	1.7939	0.0000	8,568.733 4	8,568.733 4	0.8782	0.0000	8,590.687 8
<b>Maximum</b>	<b>10.8839</b>	<b>111.3307</b>	<b>55.9656</b>	<b>0.2485</b>	<b>18.2442</b>	<b>1.1466</b>	<b>18.7185</b>	<b>9.9779</b>	<b>1.1250</b>	<b>10.4520</b>	<b>0.0000</b>	<b>26,192.19 57</b>	<b>26,192.19 57</b>	<b>3.1081</b>	<b>0.0000</b>	<b>26,269.89 72</b>

## Mitigated - San Luis Ranch Project - 2019 Start - San Luis Obispo County APCD Air District, Winter

	ROG	NOx	CO	SO2	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	19.55	16.65	-4.59	0.00	0.00	56.87	9.89	0.00	54.47	17.01	0.00	0.00	0.00	0.00	0.00	0.00

Mitigated - San Luis Ranch Project - 2019 Start - San Luis Obispo County APCD Air District, Winter

**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	8.9027	0.2048	17.7630	9.4000e-004		0.0981	0.0981		0.0981	0.0981	0.0000	31.9519	31.9519	0.0309	0.0000	32.7231
Energy	0.0975	0.8404	0.4100	5.3200e-003		0.0673	0.0673		0.0673	0.0673		1,063.1759	1,063.1759	0.0204	0.0195	1,069.4938
Mobile	2.8125	11.6344	31.3934	0.0883	8.3620	0.0925	8.4545	2.2338	0.0868	2.3207		8,911.1736	8,911.1736	0.3636		8,920.2625
<b>Total</b>	<b>11.8126</b>	<b>12.6797</b>	<b>49.5664</b>	<b>0.0946</b>	<b>8.3620</b>	<b>0.2580</b>	<b>8.6200</b>	<b>2.2338</b>	<b>0.2523</b>	<b>2.4861</b>	<b>0.0000</b>	<b>10,006.3014</b>	<b>10,006.3014</b>	<b>0.4148</b>	<b>0.0195</b>	<b>10,022.4795</b>

**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	8.9027	0.2048	17.7630	9.4000e-004		0.0981	0.0981		0.0981	0.0981	0.0000	31.9519	31.9519	0.0309	0.0000	32.7231
Energy	0.0820	0.7067	0.3427	4.4700e-003		0.0566	0.0566		0.0566	0.0566		894.3651	894.3651	0.0171	0.0164	899.6798
Mobile	2.8125	11.6344	31.3934	0.0883	8.3620	0.0925	8.4545	2.2338	0.0868	2.3207		8,911.1736	8,911.1736	0.3636		8,920.2625
<b>Total</b>	<b>11.7971</b>	<b>12.5459</b>	<b>49.4991</b>	<b>0.0937</b>	<b>8.3620</b>	<b>0.2473</b>	<b>8.6093</b>	<b>2.2338</b>	<b>0.2416</b>	<b>2.4754</b>	<b>0.0000</b>	<b>9,837.4906</b>	<b>9,837.4906</b>	<b>0.4116</b>	<b>0.0164</b>	<b>9,852.6655</b>

## Mitigated - San Luis Ranch Project - 2019 Start - San Luis Obispo County APCD Air District, Winter

	ROG	NOx	CO	SO2	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	0.13	1.05	0.14	0.90	0.00	4.14	0.12	0.00	4.24	0.43	0.00	1.69	1.69	0.78	15.85	1.69

### 3.0 Construction Detail

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#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2019	2/11/2019	5	30	
2	Site Preparation	Site Preparation	2/12/2019	3/11/2019	5	20	
3	Grading	Grading	3/12/2019	5/13/2019	5	45	
4	Building Construction	Building Construction	5/14/2019	1/18/2021	5	440	
5	Architectural Coating	Architectural Coating	5/5/2020	3/8/2021	5	220	
6	Paving	Paving	1/19/2021	3/8/2021	5	35	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 112.5

Acres of Paving: 4.4

Residential Indoor: 464,535; Residential Outdoor: 154,845; Non-Residential Indoor: 75,000; Non-Residential Outdoor: 25,000; Striped Parking Area: 11,500 (Architectural Coating – sqft)

#### OffRoad Equipment

## Mitigated - San Luis Ranch Project - 2019 Start - San Luis Obispo County APCD Air District, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38

**Trips and VMT**

Mitigated - San Luis Ranch Project - 2019 Start - San Luis Obispo County APCD Air District, Winter

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	6	15.00	0.00	80.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	10,540.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	351.00	104.00	0.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	70.00	0.00	0.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Use Cleaner Engines for Construction Equipment

Use DPF for Construction Equipment

Clean Paved Roads

**3.2 Demolition - 2019**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5952	0.0000	0.5952	0.0901	0.0000	0.0901			0.0000			0.0000
Off-Road	3.5134	35.7830	22.0600	0.0388		1.7949	1.7949		1.6697	1.6697		3,816.899 4	3,816.899 4	1.0618		3,843.445 1
<b>Total</b>	<b>3.5134</b>	<b>35.7830</b>	<b>22.0600</b>	<b>0.0388</b>	<b>0.5952</b>	<b>1.7949</b>	<b>2.3901</b>	<b>0.0901</b>	<b>1.6697</b>	<b>1.7598</b>		<b>3,816.899 4</b>	<b>3,816.899 4</b>	<b>1.0618</b>		<b>3,843.445 1</b>

Mitigated - San Luis Ranch Project - 2019 Start - San Luis Obispo County APCD Air District, Winter

**3.2 Demolition - 2019**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0279	0.9252	0.2101	2.1000e-003	0.0465	5.6400e-003	0.0522	0.0127	5.4000e-003	0.0181		226.2288	226.2288	0.0132		226.5585
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	0.0802	0.0690	0.5896	1.3700e-003	0.1483	9.8000e-004	0.1493	0.0393	9.1000e-004	0.0402		136.3132	136.3132	5.1200e-003		136.4411
<b>Total</b>	<b>0.1080</b>	<b>0.9942</b>	<b>0.7997</b>	<b>3.4700e-003</b>	<b>0.1948</b>	<b>6.6200e-003</b>	<b>0.2014</b>	<b>0.0521</b>	<b>6.3100e-003</b>	<b>0.0584</b>		<b>362.5420</b>	<b>362.5420</b>	<b>0.0183</b>		<b>362.9997</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5952	0.0000	0.5952	0.0901	0.0000	0.0901			0.0000			0.0000
Off-Road	0.9246	18.3130	24.6739	0.0388		0.4314	0.4314		0.4314	0.4314	0.0000	3,816.8994	3,816.8994	1.0618		3,843.4451
<b>Total</b>	<b>0.9246</b>	<b>18.3130</b>	<b>24.6739</b>	<b>0.0388</b>	<b>0.5952</b>	<b>0.4314</b>	<b>1.0265</b>	<b>0.0901</b>	<b>0.4314</b>	<b>0.5215</b>	<b>0.0000</b>	<b>3,816.8994</b>	<b>3,816.8994</b>	<b>1.0618</b>		<b>3,843.4451</b>



Mitigated - San Luis Ranch Project - 2019 Start - San Luis Obispo County APCD Air District, Winter

**3.2 Demolition - 2019**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0279	0.9252	0.2101	2.1000e-003	0.0465	5.6400e-003	0.0522	0.0127	5.4000e-003	0.0181		226.2288	226.2288	0.0132		226.5585
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	0.0802	0.0690	0.5896	1.3700e-003	0.1483	9.8000e-004	0.1493	0.0393	9.1000e-004	0.0402		136.3132	136.3132	5.1200e-003		136.4411
<b>Total</b>	<b>0.1080</b>	<b>0.9942</b>	<b>0.7997</b>	<b>3.4700e-003</b>	<b>0.1948</b>	<b>6.6200e-003</b>	<b>0.2014</b>	<b>0.0521</b>	<b>6.3100e-003</b>	<b>0.0584</b>		<b>362.5420</b>	<b>362.5420</b>	<b>0.0183</b>		<b>362.9997</b>

**3.3 Site Preparation - 2019**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.3350	45.5727	22.0630	0.0380		2.3904	2.3904		2.1991	2.1991		3,766.4529	3,766.4529	1.1917		3,796.2445
<b>Total</b>	<b>4.3350</b>	<b>45.5727</b>	<b>22.0630</b>	<b>0.0380</b>	<b>18.0663</b>	<b>2.3904</b>	<b>20.4566</b>	<b>9.9307</b>	<b>2.1991</b>	<b>12.1298</b>		<b>3,766.4529</b>	<b>3,766.4529</b>	<b>1.1917</b>		<b>3,796.2445</b>

Mitigated - San Luis Ranch Project - 2019 Start - San Luis Obispo County APCD Air District, Winter

**3.3 Site Preparation - 2019**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0962	0.0828	0.7075	1.6400e-003	0.1780	1.1800e-003	0.1791	0.0472	1.0900e-003	0.0483		163.5759	163.5759	6.1400e-003		163.7294
<b>Total</b>	<b>0.0962</b>	<b>0.0828</b>	<b>0.7075</b>	<b>1.6400e-003</b>	<b>0.1780</b>	<b>1.1800e-003</b>	<b>0.1791</b>	<b>0.0472</b>	<b>1.0900e-003</b>	<b>0.0483</b>		<b>163.5759</b>	<b>163.5759</b>	<b>6.1400e-003</b>		<b>163.7294</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	0.9312	19.0656	22.9600	0.0380		0.4731	0.4731		0.4731	0.4731	0.0000	3,766.4529	3,766.4529	1.1917		3,796.2445
<b>Total</b>	<b>0.9312</b>	<b>19.0656</b>	<b>22.9600</b>	<b>0.0380</b>	<b>18.0663</b>	<b>0.4731</b>	<b>18.5393</b>	<b>9.9307</b>	<b>0.4731</b>	<b>10.4038</b>	<b>0.0000</b>	<b>3,766.4529</b>	<b>3,766.4529</b>	<b>1.1917</b>		<b>3,796.2445</b>

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**3.3 Site Preparation - 2019**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0962	0.0828	0.7075	1.6400e-003	0.1780	1.1800e-003	0.1791	0.0472	1.0900e-003	0.0483		163.5759	163.5759	6.1400e-003		163.7294
<b>Total</b>	<b>0.0962</b>	<b>0.0828</b>	<b>0.7075</b>	<b>1.6400e-003</b>	<b>0.1780</b>	<b>1.1800e-003</b>	<b>0.1791</b>	<b>0.0472</b>	<b>1.0900e-003</b>	<b>0.0483</b>		<b>163.5759</b>	<b>163.5759</b>	<b>6.1400e-003</b>		<b>163.7294</b>

**3.4 Grading - 2019**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.0182	0.0000	9.0182	3.6487	0.0000	3.6487			0.0000			0.0000
Off-Road	4.7389	54.5202	33.3768	0.0620		2.3827	2.3827		2.1920	2.1920		6,140.0195	6,140.0195	1.9426		6,188.5854
<b>Total</b>	<b>4.7389</b>	<b>54.5202</b>	<b>33.3768</b>	<b>0.0620</b>	<b>9.0182</b>	<b>2.3827</b>	<b>11.4009</b>	<b>3.6487</b>	<b>2.1920</b>	<b>5.8408</b>		<b>6,140.0195</b>	<b>6,140.0195</b>	<b>1.9426</b>		<b>6,188.5854</b>

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**3.4 Grading - 2019**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	2.4465	81.2605	18.4568	0.1847	4.0853	0.4956	4.5809	1.1190	0.4741	1.5931		19,870.4253	19,870.4253	1.1586		19,899.3903
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	0.1069	0.0920	0.7861	1.8300e-003	0.1977	1.3100e-003	0.1990	0.0524	1.2100e-003	0.0537		181.7510	181.7510	6.8200e-003		181.9215
<b>Total</b>	<b>2.5534</b>	<b>81.3525</b>	<b>19.2430</b>	<b>0.1865</b>	<b>4.2831</b>	<b>0.4969</b>	<b>4.7799</b>	<b>1.1714</b>	<b>0.4753</b>	<b>1.6468</b>		<b>20,052.1762</b>	<b>20,052.1762</b>	<b>1.1654</b>		<b>20,081.3118</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.0182	0.0000	9.0182	3.6487	0.0000	3.6487			0.0000			0.0000
Off-Road	1.5231	29.9782	36.7226	0.0620		0.6497	0.6497		0.6497	0.6497	0.0000	6,140.0195	6,140.0195	1.9426		6,188.5854
<b>Total</b>	<b>1.5231</b>	<b>29.9782</b>	<b>36.7226</b>	<b>0.0620</b>	<b>9.0182</b>	<b>0.6497</b>	<b>9.6679</b>	<b>3.6487</b>	<b>0.6497</b>	<b>4.2984</b>	<b>0.0000</b>	<b>6,140.0195</b>	<b>6,140.0195</b>	<b>1.9426</b>		<b>6,188.5854</b>

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**3.4 Grading - 2019**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	2.4465	81.2605	18.4568	0.1847	4.0853	0.4956	4.5809	1.1190	0.4741	1.5931		19,870.4253	19,870.4253	1.1586		19,899.3903
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	0.1069	0.0920	0.7861	1.8300e-003	0.1977	1.3100e-003	0.1990	0.0524	1.2100e-003	0.0537		181.7510	181.7510	6.8200e-003		181.9215
<b>Total</b>	<b>2.5534</b>	<b>81.3525</b>	<b>19.2430</b>	<b>0.1865</b>	<b>4.2831</b>	<b>0.4969</b>	<b>4.7799</b>	<b>1.1714</b>	<b>0.4753</b>	<b>1.6468</b>		<b>20,052.1762</b>	<b>20,052.1762</b>	<b>1.1654</b>		<b>20,081.3118</b>

**3.5 Building Construction - 2019**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127		2,591.5802	2,591.5802	0.6313		2,607.3635
<b>Total</b>	<b>2.3612</b>	<b>21.0788</b>	<b>17.1638</b>	<b>0.0269</b>		<b>1.2899</b>	<b>1.2899</b>		<b>1.2127</b>	<b>1.2127</b>		<b>2,591.5802</b>	<b>2,591.5802</b>	<b>0.6313</b>		<b>2,607.3635</b>

Mitigated - San Luis Ranch Project - 2019 Start - San Luis Obispo County APCD Air District, Winter

**3.5 Building Construction - 2019**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.5006	11.7028	3.9284	0.0204	0.4827	0.0965	0.5791	0.1390	0.0923	0.2313		2,170.703 3	2,170.703 3	0.1468		2,174.374 3
Worker	1.8759	1.6142	13.7967	0.0321	3.4700	0.0229	3.4930	0.9203	0.0212	0.9415		3,189.729 4	3,189.729 4	0.1197		3,192.722 7
<b>Total</b>	<b>2.3764</b>	<b>13.3171</b>	<b>17.7251</b>	<b>0.0525</b>	<b>3.9527</b>	<b>0.1194</b>	<b>4.0721</b>	<b>1.0593</b>	<b>0.1135</b>	<b>1.1728</b>		<b>5,360.432 7</b>	<b>5,360.432 7</b>	<b>0.2666</b>		<b>5,367.097 0</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6739	14.2261	17.8738	0.0269		0.4518	0.4518		0.4518	0.4518	0.0000	2,591.580 2	2,591.580 2	0.6313		2,607.363 5
<b>Total</b>	<b>0.6739</b>	<b>14.2261</b>	<b>17.8738</b>	<b>0.0269</b>		<b>0.4518</b>	<b>0.4518</b>		<b>0.4518</b>	<b>0.4518</b>	<b>0.0000</b>	<b>2,591.580 2</b>	<b>2,591.580 2</b>	<b>0.6313</b>		<b>2,607.363 5</b>

Mitigated - San Luis Ranch Project - 2019 Start - San Luis Obispo County APCD Air District, Winter

**3.5 Building Construction - 2019**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.5006	11.7028	3.9284	0.0204	0.4827	0.0965	0.5791	0.1390	0.0923	0.2313		2,170.703 3	2,170.703 3	0.1468		2,174.374 3
Worker	1.8759	1.6142	13.7967	0.0321	3.4700	0.0229	3.4930	0.9203	0.0212	0.9415		3,189.729 4	3,189.729 4	0.1197		3,192.722 7
<b>Total</b>	<b>2.3764</b>	<b>13.3171</b>	<b>17.7251</b>	<b>0.0525</b>	<b>3.9527</b>	<b>0.1194</b>	<b>4.0721</b>	<b>1.0593</b>	<b>0.1135</b>	<b>1.1728</b>		<b>5,360.432 7</b>	<b>5,360.432 7</b>	<b>0.2666</b>		<b>5,367.097 0</b>

**3.5 Building Construction - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503		2,553.063 1	2,553.063 1	0.6229		2,568.634 5
<b>Total</b>	<b>2.1198</b>	<b>19.1860</b>	<b>16.8485</b>	<b>0.0269</b>		<b>1.1171</b>	<b>1.1171</b>		<b>1.0503</b>	<b>1.0503</b>		<b>2,553.063 1</b>	<b>2,553.063 1</b>	<b>0.6229</b>		<b>2,568.634 5</b>

Mitigated - San Luis Ranch Project - 2019 Start - San Luis Obispo County APCD Air District, Winter

**3.5 Building Construction - 2020**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3988	10.6799	3.4634	0.0204	0.4828	0.0601	0.5429	0.1390	0.0575	0.1965		2,166.4306	2,166.4306	0.1374		2,169.8644
Worker	1.7113	1.4214	12.1216	0.0311	3.4700	0.0222	3.4922	0.9203	0.0205	0.9408		3,091.0014	3,091.0014	0.1022		3,093.5566
<b>Total</b>	<b>2.1102</b>	<b>12.1013</b>	<b>15.5850</b>	<b>0.0514</b>	<b>3.9528</b>	<b>0.0823</b>	<b>4.0351</b>	<b>1.0594</b>	<b>0.0780</b>	<b>1.1373</b>		<b>5,257.4320</b>	<b>5,257.4320</b>	<b>0.2396</b>		<b>5,263.4210</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6739	14.2261	17.8738	0.0269		0.4518	0.4518		0.4518	0.4518	0.0000	2,553.0631	2,553.0631	0.6229		2,568.6345
<b>Total</b>	<b>0.6739</b>	<b>14.2261</b>	<b>17.8738</b>	<b>0.0269</b>		<b>0.4518</b>	<b>0.4518</b>		<b>0.4518</b>	<b>0.4518</b>	<b>0.0000</b>	<b>2,553.0631</b>	<b>2,553.0631</b>	<b>0.6229</b>		<b>2,568.6345</b>



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**3.5 Building Construction - 2020**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3988	10.6799	3.4634	0.0204	0.4828	0.0601	0.5429	0.1390	0.0575	0.1965		2,166.4306	2,166.4306	0.1374		2,169.8644
Worker	1.7113	1.4214	12.1216	0.0311	3.4700	0.0222	3.4922	0.9203	0.0205	0.9408		3,091.0014	3,091.0014	0.1022		3,093.5566
<b>Total</b>	<b>2.1102</b>	<b>12.1013</b>	<b>15.5850</b>	<b>0.0514</b>	<b>3.9528</b>	<b>0.0823</b>	<b>4.0351</b>	<b>1.0594</b>	<b>0.0780</b>	<b>1.1373</b>		<b>5,257.4320</b>	<b>5,257.4320</b>	<b>0.2396</b>		<b>5,263.4210</b>

**3.5 Building Construction - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013		2,553.3639	2,553.3639	0.6160		2,568.7643
<b>Total</b>	<b>1.9009</b>	<b>17.4321</b>	<b>16.5752</b>	<b>0.0269</b>		<b>0.9586</b>	<b>0.9586</b>		<b>0.9013</b>	<b>0.9013</b>		<b>2,553.3639</b>	<b>2,553.3639</b>	<b>0.6160</b>		<b>2,568.7643</b>

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**3.5 Building Construction - 2021**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3282	9.7659	3.0712	0.0202	0.4829	0.0292	0.5121	0.1391	0.0279	0.1670		2,152.8370	2,152.8370	0.1340		2,156.1872
Worker	1.5970	1.2709	10.9781	0.0300	3.4700	0.0215	3.4915	0.9203	0.0198	0.9401		2,985.6548	2,985.6548	0.0907		2,987.9233
<b>Total</b>	<b>1.9252</b>	<b>11.0368</b>	<b>14.0493</b>	<b>0.0502</b>	<b>3.9529</b>	<b>0.0507</b>	<b>4.0036</b>	<b>1.0594</b>	<b>0.0478</b>	<b>1.1071</b>		<b>5,138.4917</b>	<b>5,138.4917</b>	<b>0.2248</b>		<b>5,144.1105</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6739	14.2261	17.8738	0.0269		0.4518	0.4518		0.4518	0.4518	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643
<b>Total</b>	<b>0.6739</b>	<b>14.2261</b>	<b>17.8738</b>	<b>0.0269</b>		<b>0.4518</b>	<b>0.4518</b>		<b>0.4518</b>	<b>0.4518</b>	<b>0.0000</b>	<b>2,553.3639</b>	<b>2,553.3639</b>	<b>0.6160</b>		<b>2,568.7643</b>

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**3.5 Building Construction - 2021**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3282	9.7659	3.0712	0.0202	0.4829	0.0292	0.5121	0.1391	0.0279	0.1670		2,152.8370	2,152.8370	0.1340		2,156.1872
Worker	1.5970	1.2709	10.9781	0.0300	3.4700	0.0215	3.4915	0.9203	0.0198	0.9401		2,985.6548	2,985.6548	0.0907		2,987.9233
<b>Total</b>	<b>1.9252</b>	<b>11.0368</b>	<b>14.0493</b>	<b>0.0502</b>	<b>3.9529</b>	<b>0.0507</b>	<b>4.0036</b>	<b>1.0594</b>	<b>0.0478</b>	<b>1.1071</b>		<b>5,138.4917</b>	<b>5,138.4917</b>	<b>0.2248</b>		<b>5,144.1105</b>

**3.6 Architectural Coating - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	7.6992					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2422	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109		281.4481	281.4481	0.0218		281.9928
<b>Total</b>	<b>7.9413</b>	<b>1.6838</b>	<b>1.8314</b>	<b>2.9700e-003</b>		<b>0.1109</b>	<b>0.1109</b>		<b>0.1109</b>	<b>0.1109</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0218</b>		<b>281.9928</b>

Mitigated - San Luis Ranch Project - 2019 Start - San Luis Obispo County APCD Air District, Winter

**3.6 Architectural Coating - 2020**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	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	0.3413	0.2835	2.4174	6.1900e-003	0.6920	4.4300e-003	0.6965	0.1835	4.0800e-003	0.1876		616.4390	616.4390	0.0204		616.9486
<b>Total</b>	<b>0.3413</b>	<b>0.2835</b>	<b>2.4174</b>	<b>6.1900e-003</b>	<b>0.6920</b>	<b>4.4300e-003</b>	<b>0.6965</b>	<b>0.1835</b>	<b>4.0800e-003</b>	<b>0.1876</b>		<b>616.4390</b>	<b>616.4390</b>	<b>0.0204</b>		<b>616.9486</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	7.6992					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0594	1.3570	1.8324	2.9700e-003		0.0475	0.0475		0.0475	0.0475	0.0000	281.4481	281.4481	0.0218		281.9928
<b>Total</b>	<b>7.7586</b>	<b>1.3570</b>	<b>1.8324</b>	<b>2.9700e-003</b>		<b>0.0475</b>	<b>0.0475</b>		<b>0.0475</b>	<b>0.0475</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0218</b>		<b>281.9928</b>

Mitigated - San Luis Ranch Project - 2019 Start - San Luis Obispo County APCD Air District, Winter

**3.6 Architectural Coating - 2020**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	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	0.3413	0.2835	2.4174	6.1900e-003	0.6920	4.4300e-003	0.6965	0.1835	4.0800e-003	0.1876		616.4390	616.4390	0.0204		616.9486
<b>Total</b>	<b>0.3413</b>	<b>0.2835</b>	<b>2.4174</b>	<b>6.1900e-003</b>	<b>0.6920</b>	<b>4.4300e-003</b>	<b>0.6965</b>	<b>0.1835</b>	<b>4.0800e-003</b>	<b>0.1876</b>		<b>616.4390</b>	<b>616.4390</b>	<b>0.0204</b>		<b>616.9486</b>

**3.6 Architectural Coating - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	7.6992					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309
<b>Total</b>	<b>7.9181</b>	<b>1.5268</b>	<b>1.8176</b>	<b>2.9700e-003</b>		<b>0.0941</b>	<b>0.0941</b>		<b>0.0941</b>	<b>0.0941</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0193</b>		<b>281.9309</b>

Mitigated - San Luis Ranch Project - 2019 Start - San Luis Obispo County APCD Air District, Winter

**3.6 Architectural Coating - 2021**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.3185	0.2535	2.1894	5.9800e-003	0.6920	4.2900e-003	0.6963	0.1835	3.9500e-003	0.1875		595.4297	595.4297	0.0181		595.8821
<b>Total</b>	<b>0.3185</b>	<b>0.2535</b>	<b>2.1894</b>	<b>5.9800e-003</b>	<b>0.6920</b>	<b>4.2900e-003</b>	<b>0.6963</b>	<b>0.1835</b>	<b>3.9500e-003</b>	<b>0.1875</b>		<b>595.4297</b>	<b>595.4297</b>	<b>0.0181</b>		<b>595.8821</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	7.6992					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0594	1.3570	1.8324	2.9700e-003		0.0475	0.0475		0.0475	0.0475	0.0000	281.4481	281.4481	0.0193		281.9309
<b>Total</b>	<b>7.7586</b>	<b>1.3570</b>	<b>1.8324</b>	<b>2.9700e-003</b>		<b>0.0475</b>	<b>0.0475</b>		<b>0.0475</b>	<b>0.0475</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0193</b>		<b>281.9309</b>

Mitigated - San Luis Ranch Project - 2019 Start - San Luis Obispo County APCD Air District, Winter

**3.6 Architectural Coating - 2021**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Worker	0.3185	0.2535	2.1894	5.9800e-003	0.6920	4.2900e-003	0.6963	0.1835	3.9500e-003	0.1875		595.4297	595.4297	0.0181			595.8821
<b>Total</b>	<b>0.3185</b>	<b>0.2535</b>	<b>2.1894</b>	<b>5.9800e-003</b>	<b>0.6920</b>	<b>4.2900e-003</b>	<b>0.6963</b>	<b>0.1835</b>	<b>3.9500e-003</b>	<b>0.1875</b>		<b>595.4297</b>	<b>595.4297</b>	<b>0.0181</b>			<b>595.8821</b>

**3.7 Paving - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235		2,207.2109	2,207.2109	0.7139			2,225.0573
Paving	0.3294					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
<b>Total</b>	<b>1.5849</b>	<b>12.9191</b>	<b>14.6532</b>	<b>0.0228</b>		<b>0.6777</b>	<b>0.6777</b>		<b>0.6235</b>	<b>0.6235</b>		<b>2,207.2109</b>	<b>2,207.2109</b>	<b>0.7139</b>			<b>2,225.0573</b>

Mitigated - San Luis Ranch Project - 2019 Start - San Luis Obispo County APCD Air District, Winter

**3.7 Paving - 2021**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0683	0.0543	0.4692	1.2800e-003	0.1483	9.2000e-004	0.1492	0.0393	8.5000e-004	0.0402		127.5921	127.5921	3.8800e-003		127.6890
<b>Total</b>	<b>0.0683</b>	<b>0.0543</b>	<b>0.4692</b>	<b>1.2800e-003</b>	<b>0.1483</b>	<b>9.2000e-004</b>	<b>0.1492</b>	<b>0.0393</b>	<b>8.5000e-004</b>	<b>0.0402</b>		<b>127.5921</b>	<b>127.5921</b>	<b>3.8800e-003</b>		<b>127.6890</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5609	11.2952	17.2957	0.0228		0.3047	0.3047		0.3047	0.3047	0.0000	2,207.2109	2,207.2109	0.7139		2,225.0573
Paving	0.3294					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.8903</b>	<b>11.2952</b>	<b>17.2957</b>	<b>0.0228</b>		<b>0.3047</b>	<b>0.3047</b>		<b>0.3047</b>	<b>0.3047</b>	<b>0.0000</b>	<b>2,207.2109</b>	<b>2,207.2109</b>	<b>0.7139</b>		<b>2,225.0573</b>



Mitigated - San Luis Ranch Project - 2019 Start - San Luis Obispo County APCD Air District, Winter

**3.7 Paving - 2021**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0683	0.0543	0.4692	1.2800e-003	0.1483	9.2000e-004	0.1492	0.0393	8.5000e-004	0.0402		127.5921	127.5921	3.8800e-003		127.6890
<b>Total</b>	<b>0.0683</b>	<b>0.0543</b>	<b>0.4692</b>	<b>1.2800e-003</b>	<b>0.1483</b>	<b>9.2000e-004</b>	<b>0.1492</b>	<b>0.0393</b>	<b>8.5000e-004</b>	<b>0.0402</b>		<b>127.5921</b>	<b>127.5921</b>	<b>3.8800e-003</b>		<b>127.6890</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

Mitigated - San Luis Ranch Project - 2019 Start - San Luis Obispo County APCD Air District, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	2.8125	11.6344	31.3934	0.0883	8.3620	0.0925	8.4545	2.2338	0.0868	2.3207		8,911.1736	8,911.1736	0.3636		8,920.2625
Unmitigated	2.8125	11.6344	31.3934	0.0883	8.3620	0.0925	8.4545	2.2338	0.0868	2.3207		8,911.1736	8,911.1736	0.3636		8,920.2625

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	1,002.73	1,042.13	908.17	2,528,468	2,528,468
City Park	0.00	0.00	0.00		
General Office Building	300.00	67.00	28.50	518,513	518,513
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Regional Shopping Center	221.75	259.50	131.00	309,253	309,253
Single Family Housing	91.62	95.22	82.98	231,028	231,028
<b>Total</b>	<b>1,616.10</b>	<b>1,463.85</b>	<b>1,150.65</b>	<b>3,587,261</b>	<b>3,587,261</b>

4.3 Trip Type Information

Mitigated - San Luis Ranch Project - 2019 Start - San Luis Obispo County APCD Air District, Winter

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
Apartments Mid Rise	13.00	5.00	5.00	35.80	21.00	43.20	86	11	3
City Park	13.00	5.00	5.00	33.00	48.00	19.00	66	28	6
General Office Building	13.00	5.00	5.00	33.00	48.00	19.00	77	19	4
Parking Lot	13.00	5.00	5.00	0.00	0.00	0.00	0	0	0
Parking Lot	13.00	5.00	5.00	0.00	0.00	0.00	0	0	0
Parking Lot	13.00	5.00	5.00	0.00	0.00	0.00	0	0	0
Regional Shopping Center	13.00	5.00	5.00	16.30	64.70	19.00	54	35	11
Single Family Housing	13.00	5.00	5.00	35.80	21.00	43.20	86	11	3

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	0.575581	0.029595	0.198288	0.120539	0.026172	0.006482	0.012911	0.019591	0.002354	0.001214	0.005068	0.000784	0.001422
Parking Lot	0.575581	0.029595	0.198288	0.120539	0.026172	0.006482	0.012911	0.019591	0.002354	0.001214	0.005068	0.000784	0.001422
Parking Lot	0.575581	0.029595	0.198288	0.120539	0.026172	0.006482	0.012911	0.019591	0.002354	0.001214	0.005068	0.000784	0.001422
Parking Lot	0.575581	0.029595	0.198288	0.120539	0.026172	0.006482	0.012911	0.019591	0.002354	0.001214	0.005068	0.000784	0.001422
City Park	0.575581	0.029595	0.198288	0.120539	0.026172	0.006482	0.012911	0.019591	0.002354	0.001214	0.005068	0.000784	0.001422
Apartments Mid Rise	0.575581	0.029595	0.198288	0.120539	0.026172	0.006482	0.012911	0.019591	0.002354	0.001214	0.005068	0.000784	0.001422
Single Family Housing	0.575581	0.029595	0.198288	0.120539	0.026172	0.006482	0.012911	0.019591	0.002354	0.001214	0.005068	0.000784	0.001422
Regional Shopping Center	0.575581	0.029595	0.198288	0.120539	0.026172	0.006482	0.012911	0.019591	0.002354	0.001214	0.005068	0.000784	0.001422

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

Exceed Title 24

Install Energy Efficient Appliances

Mitigated - San Luis Ranch Project - 2019 Start - San Luis Obispo County APCD Air District, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0820	0.7067	0.3427	4.4700e-003		0.0566	0.0566		0.0566	0.0566		894.3651	894.3651	0.0171	0.0164	899.6798
NaturalGas Unmitigated	0.0975	0.8404	0.4100	5.3200e-003		0.0673	0.0673		0.0673	0.0673		1,063.1759	1,063.1759	0.0204	0.0195	1,069.4938

Mitigated - San Luis Ranch Project - 2019 Start - San Luis Obispo County APCD Air District, Winter

**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					
Apartments Mid Rise	5974.27	0.0644	0.5506	0.2343	3.5100e-003		0.0445	0.0445		0.0445	0.0445		702.8547	702.8547	0.0135	0.0129	707.0314
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
General Office Building	1126.71	0.0122	0.1105	0.0928	6.6000e-004		8.4000e-003	8.4000e-003		8.4000e-003	8.4000e-003		132.5544	132.5544	2.5400e-003	2.4300e-003	133.3421
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	163.014	1.7600e-003	0.0160	0.0134	1.0000e-004		1.2100e-003	1.2100e-003		1.2100e-003	1.2100e-003		19.1781	19.1781	3.7000e-004	3.5000e-004	19.2921
Single Family Housing	1773	0.0191	0.1634	0.0695	1.0400e-003		0.0132	0.0132		0.0132	0.0132		208.5887	208.5887	4.0000e-003	3.8200e-003	209.8282
<b>Total</b>		<b>0.0975</b>	<b>0.8404</b>	<b>0.4100</b>	<b>5.3100e-003</b>		<b>0.0673</b>	<b>0.0673</b>		<b>0.0673</b>	<b>0.0673</b>		<b>1,063.1759</b>	<b>1,063.1759</b>	<b>0.0204</b>	<b>0.0195</b>	<b>1,069.4938</b>

Mitigated - San Luis Ranch Project - 2019 Start - San Luis Obispo County APCD Air District, Winter

**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					
Apartments Mid Rise	5.11998	0.0552	0.4718	0.2008	3.0100e-003		0.0382	0.0382		0.0382	0.0382		602.3505	602.3505	0.0116	0.0110	605.9300
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
General Office Building	0.902192	9.7300e-003	0.0885	0.0743	5.3000e-004		6.7200e-003	6.7200e-003		6.7200e-003	6.7200e-003		106.1402	106.1402	2.0300e-003	1.9500e-003	106.7710
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	0.130411	1.4100e-003	0.0128	0.0107	8.0000e-005		9.7000e-004	9.7000e-004		9.7000e-004	9.7000e-004		15.3425	15.3425	2.9000e-004	2.8000e-004	15.4336
Single Family Housing	1.44952	0.0156	0.1336	0.0568	8.5000e-004		0.0108	0.0108		0.0108	0.0108		170.5319	170.5319	3.2700e-003	3.1300e-003	171.5453
<b>Total</b>		<b>0.0820</b>	<b>0.7067</b>	<b>0.3427</b>	<b>4.4700e-003</b>		<b>0.0566</b>	<b>0.0566</b>		<b>0.0566</b>	<b>0.0566</b>		<b>894.3651</b>	<b>894.3651</b>	<b>0.0171</b>	<b>0.0164</b>	<b>899.6798</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

No Hearths Installed

Mitigated - San Luis Ranch Project - 2019 Start - San Luis Obispo County APCD Air District, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	8.9027	0.2048	17.7630	9.4000e-004		0.0981	0.0981		0.0981	0.0981	0.0000	31.9519	31.9519	0.0309	0.0000	32.7231
Unmitigated	8.9027	0.2048	17.7630	9.4000e-004		0.0981	0.0981		0.0981	0.0981	0.0000	31.9519	31.9519	0.0309	0.0000	32.7231

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	2.3057					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	6.0601					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.5369	0.2048	17.7630	9.4000e-004		0.0981	0.0981		0.0981	0.0981		31.9519	31.9519	0.0309		32.7231
<b>Total</b>	<b>8.9027</b>	<b>0.2048</b>	<b>17.7630</b>	<b>9.4000e-004</b>		<b>0.0981</b>	<b>0.0981</b>		<b>0.0981</b>	<b>0.0981</b>	<b>0.0000</b>	<b>31.9519</b>	<b>31.9519</b>	<b>0.0309</b>	<b>0.0000</b>	<b>32.7231</b>

Mitigated - San Luis Ranch Project - 2019 Start - San Luis Obispo County APCD Air District, Winter

**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	2.3057					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	6.0601					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.5369	0.2048	17.7630	9.4000e-004		0.0981	0.0981		0.0981	0.0981		31.9519	31.9519	0.0309		32.7231
<b>Total</b>	<b>8.9027</b>	<b>0.2048</b>	<b>17.7630</b>	<b>9.4000e-004</b>		<b>0.0981</b>	<b>0.0981</b>		<b>0.0981</b>	<b>0.0981</b>	<b>0.0000</b>	<b>31.9519</b>	<b>31.9519</b>	<b>0.0309</b>	<b>0.0000</b>	<b>32.7231</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

Use Reclaimed Water

**8.0 Waste Detail**

**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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Mitigated - San Luis Ranch Project - 2019 Start - San Luis Obispo County APCD Air District, Winter

## 10.0 Stationary Equipment

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### Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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## 11.0 Vegetation

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Mitigated - San Luis Ranch Project - 2019 Start - San Luis Obispo County APCD Air District, Summary Report

**Mitigated - San Luis Ranch Project - 2019 Start**  
**San Luis Obispo County APCD, Summary Report**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	25.00	1000sqft	0.63	25,000.00	0
Parking Lot	1.90	Acre	1.90	82,764.00	0
Parking Lot	1.80	Acre	1.80	78,408.00	0
Parking Lot	0.70	Acre	0.70	30,492.00	0
City Park	5.80	Acre	5.80	252,648.00	0
Apartments Mid Rise	197.00	Dwelling Unit	7.20	197,000.00	563
Single Family Housing	18.00	Dwelling Unit	9.10	32,400.00	51
Regional Shopping Center	25.00	1000sqft	0.57	25,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	3.2	<b>Precipitation Freq (Days)</b>	44
<b>Climate Zone</b>	4			<b>Operational Year</b>	2022
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	641.35	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

**1.3 User Entered Comments**

Only CalEEMod defaults were used.

## Mitigated - San Luis Ranch Project - 2019 Start - San Luis Obispo County APCD Air District, Summary Report

## Project Characteristics -

Land Use - Land use values from buildout and phasing in Specific Plan Section 7.7. Includes portions of Phases 1, 2, 3, 5, and 6; and Dalidio improvements.

Construction Phase - No demolition in phases 1, 2, 4, 5 and 6. AC expected to overlap with half of building construction as painting would occur as buildings are finished.

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Demolition - Building sf estimated using Google Earth

Grading - Total import proportionally distributed by phase acreage.

Architectural Coating - Per MM AQ-2

Vehicle Trips - Trip generation rate based on Omni-Means 2016 Traffic Impact Study.

Woodstoves - PEr MM AQ-3

Construction Off-road Equipment Mitigation - per MM AQ-2

Mobile Land Use Mitigation - Trip reductions from project's density, diversity, and access to alternative transportation accounted for in trip generation rates.

Area Mitigation - Per MM AQ-3

Energy Mitigation - Per Specific Plan, appliances will be energy efficient. Exceed Title 24 per MM AQ-3

Water Mitigation - Total outdoor water use for these land uses = 20.7 Mgal, with park at 6.9 Mgal; Park using reclaimed = 33% of total.

## 2.0 Peak Daily Emissions

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### Peak Daily Construction Emissions

#### Peak Daily Construction Emissions

## Mitigated - San Luis Ranch Project - 2019 Start - San Luis Obispo County APCD Air District, Summary Report

Year	Phase	Unmitigated						Mitigated					
		ROG	NOX	CO	SO2	PM10	PM2.5	ROG	NOX	CO	SO2	PM10	PM2.5
		lb/day											
2019	Demolition	3.6214 W	36.7771 W	22.8602 S	0.0424 S	2.5915 W	1.8182 W	1.0326 W	19.3071 W	25.4740 S	0.0424 S	1.2279 W	0.5799 W
2019	Site Preparation	4.4312 W	45.6555 W	22.7864 S	0.0397 S	20.6358 S	12.1781 S	1.0274 W	19.1484 W	23.6834 S	0.0397 S	18.7185 S	10.4520 S
2019	Grading	7.2923 W	135.8726 W	52.6197 W	0.2512 S	16.1808 W	7.4875 W	4.0765 W	111.3307 W	55.9656 W	0.2512 S	14.4479 W	5.9452 W
2019	Building Construction	4.7376 W	34.3959 W	34.8889 W	0.0816 S	5.3620 W	2.3855 W	3.0503 W	27.5431 W	35.5989 W	0.0816 S	4.5239 W	1.6245 W
2020	Building Construction	4.2300 W	31.2873 W	32.4335 W	0.0805 S	5.1521 W	2.1877 W	2.7841 W	26.3273 W	33.4587 W	0.0805 S	4.4868 W	1.5891 W
2021	Building Construction	3.8261 W	28.4689 W	30.6245 W	0.0792 S	4.9622 W	2.0084 W	2.5991 W	25.2629 W	31.9231 W	0.0792 S	4.4553 W	1.5589 W
2020	Architectural Coating	8.2826 W	1.9673 W	4.3162 S	9.4700e-003 S	0.8074 S	0.2986 S	8.0999 W	1.6405 W	4.3172 S	9.4700e-003 S	0.7440 S	0.2352 S
2021	Architectural Coating	8.2366 W	1.7803 W	4.0740 S	9.2400e-003 S	0.7904 S	0.2816 S	8.0771 W	1.6104 W	4.0888 S	9.2400e-003 S	0.7439 S	0.2350 S
2021	Paving	1.6532 W	12.9734 W	15.1368 S	0.0241 S	0.8269 S	0.6637 S	0.9586 W	11.3495 W	17.7792 S	0.0241 S	0.4539 S	0.3449 S
	Peak Daily Total	8.2826 W	135.8726 W	52.6197 W	0.2512 S	20.6358 S	12.1781 S	8.0999 W	111.3307 W	55.9656 W	0.2512 S	18.7185 S	10.4520 S
	Air District Threshold												
	Exceed Significance?												

**Peak Daily Operational Emissions****Peak Daily Operational Emissions**



Mitigated - San Luis Ranch Project - 2020 Start - San Luis Obispo County APCD Air District, Annual

**Mitigated - San Luis Ranch Project - 2020 Start**  
**San Luis Obispo County APCD Air District, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	25.00	1000sqft	1.30	25,000.00	0
Parking Lot	0.60	Acre	0.60	26,136.00	0
Parking Lot	1.80	Acre	1.80	78,408.00	0
City Park	2.70	Acre	2.70	117,612.00	0
Apartments Mid Rise	83.00	Dwelling Unit	4.00	83,000.00	237
Regional Shopping Center	25.00	1000sqft	0.57	25,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	3.2	<b>Precipitation Freq (Days)</b>	44
<b>Climate Zone</b>	4			<b>Operational Year</b>	2022
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MW hr)</b>	641.35	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

**1.3 User Entered Comments & Non-Default Data**

Mitigated - San Luis Ranch Project - 2020 Start - San Luis Obispo County APCD Air District, Annual

Project Characteristics -

Land Use - Land use values from buildout and phasing in Specific Plan Section 7.7. Includes portions of Phases 3, 5, and 6. Ag SF from Sect 3.9 of Specific Plan.

Construction Phase - No demolition. AC expected to overlap with half of building construction as painting would occur as buildings are finished.

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Demolition -

Grading - Total import proportionally distributed by phase acreage.

Architectural Coating - Per MM AQ-2

Vehicle Trips - Trip generation rate based on Omni-Means 2016 Traffic Impact Study.

Woodstoves - Per MM AQ-3

Construction Off-road Equipment Mitigation - Per MM AQ-2

Mobile Land Use Mitigation - Trip reductions from project's density, diversity, and access to alternative transportation accounted for in trip generation rates.

Area Mitigation - Per MM AQ-3

Energy Mitigation - Per Specific Plan, appliances will be energy efficient. Per MM AQ-3

Water Mitigation -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	50.00
tblArchitecturalCoating	EF_Parking	150.00	50.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	50.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	50.00
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	0
tblConstEquipMitigation	DPF	No Change	Level 2
tblConstEquipMitigation	DPF	No Change	Level 2
tblConstEquipMitigation	DPF	No Change	Level 2

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tblConstEquipMitigation	DPF	No Change	Level 2
tblConstEquipMitigation	DPF	No Change	Level 2
tblConstEquipMitigation	DPF	No Change	Level 2
tblConstEquipMitigation	DPF	No Change	Level 2
tblConstEquipMitigation	DPF	No Change	Level 2
tblConstEquipMitigation	DPF	No Change	Level 2
tblConstEquipMitigation	DPF	No Change	Level 2
tblConstEquipMitigation	DPF	No Change	Level 2
tblConstEquipMitigation	DPF	No Change	Level 2
tblConstEquipMitigation	DPF	No Change	Level 2
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3



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tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	20.00	150.00
tblGrading	MaterialImported	0.00	29,760.00
tblLandUse	BuildingSpaceSquareFeet	0.00	117,612.00
tblLandUse	GreenSpaceSquareFeet	117,612.00	0.00
tblLandUse	LotAcreage	0.57	1.30
tblLandUse	LotAcreage	2.18	4.00
tblProjectCharacteristics	OperationalYear	2018	2022
tblVehicleTrips	ST_TR	6.39	5.29
tblVehicleTrips	ST_TR	2.46	2.68
tblVehicleTrips	ST_TR	49.97	10.38
tblVehicleTrips	SU_TR	5.86	4.61
tblVehicleTrips	SU_TR	1.05	1.14
tblVehicleTrips	SU_TR	25.24	5.24
tblVehicleTrips	WD_TR	6.65	5.09
tblVehicleTrips	WD_TR	1.89	44.44
tblVehicleTrips	WD_TR	11.03	12.00
tblVehicleTrips	WD_TR	42.70	8.87
tblWoodstoves	WoodstoveDayYear	60.00	0.00

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tblWoodstoves	WoodstoveWoodMass	2,016.00	0.00
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## 2.0 Emissions Summary

### 2.1 Overall Construction

#### Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2020	0.6816	4.4287	3.5093	8.6100e-003	0.4745	0.1777	0.6522	0.1717	0.1664	0.3381	0.0000	779.7753	779.7753	0.1153	0.0000	782.6577
2021	0.5693	1.1105	1.2018	2.5600e-003	0.0903	0.0499	0.1402	0.0242	0.0470	0.0712	0.0000	227.8043	227.8043	0.0334	0.0000	228.6403
<b>Maximum</b>	<b>0.6816</b>	<b>4.4287</b>	<b>3.5093</b>	<b>8.6100e-003</b>	<b>0.4745</b>	<b>0.1777</b>	<b>0.6522</b>	<b>0.1717</b>	<b>0.1664</b>	<b>0.3381</b>	<b>0.0000</b>	<b>779.7753</b>	<b>779.7753</b>	<b>0.1153</b>	<b>0.0000</b>	<b>782.6577</b>

#### Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2020	0.4567	3.4496	3.7018	8.6100e-003	0.4745	0.0707	0.5452	0.1717	0.0704	0.2421	0.0000	779.7748	779.7748	0.1153	0.0000	782.6573
2021	0.5067	0.9609	1.2796	2.5600e-003	0.0903	0.0241	0.1144	0.0242	0.0240	0.0482	0.0000	227.8041	227.8041	0.0334	0.0000	228.6402
<b>Maximum</b>	<b>0.5067</b>	<b>3.4496</b>	<b>3.7018</b>	<b>8.6100e-003</b>	<b>0.4745</b>	<b>0.0707</b>	<b>0.5452</b>	<b>0.1717</b>	<b>0.0704</b>	<b>0.2421</b>	<b>0.0000</b>	<b>779.7748</b>	<b>779.7748</b>	<b>0.1153</b>	<b>0.0000</b>	<b>782.6573</b>

Mitigated - San Luis Ranch Project - 2020 Start - San Luis Obispo County APCD Air District, Annual

	ROG	NOx	CO	SO2	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	22.98	20.38	-5.74	0.00	0.00	58.35	16.76	0.00	55.79	29.09	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-1-2020	3-31-2020	2.0187	1.4589
2	4-1-2020	6-30-2020	0.9195	0.7114
3	7-1-2020	9-30-2020	0.9296	0.7192
4	10-1-2020	12-31-2020	1.2172	0.9936
5	1-1-2021	3-31-2021	1.1771	1.0240
6	4-1-2021	6-30-2021	0.5135	0.4530
		Highest	2.0187	1.4589

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.3460	0.0131	1.1320	6.0000e-005		6.2500e-003	6.2500e-003		6.2500e-003	6.2500e-003	0.0000	1.8474	1.8474	1.7900e-003	0.0000	1.8920
Energy	7.4900e-003	0.0654	0.0374	4.1000e-004		5.1800e-003	5.1800e-003		5.1800e-003	5.1800e-003	0.0000	419.5645	419.5645	0.0170	4.5900e-003	421.3586
Mobile	0.2782	1.1554	3.0354	8.6400e-003	0.7880	8.9600e-003	0.7969	0.2110	8.4100e-003	0.2194	0.0000	791.3005	791.3005	0.0320	0.0000	792.1015
Waste						0.0000	0.0000		0.0000	0.0000	17.8449	0.0000	17.8449	1.0546	0.0000	44.2101
Water						0.0000	0.0000		0.0000	0.0000	3.7128	29.0972	32.8100	0.3827	9.2800e-003	45.1408
<b>Total</b>	<b>1.6317</b>	<b>1.2339</b>	<b>4.2048</b>	<b>9.1100e-003</b>	<b>0.7880</b>	<b>0.0204</b>	<b>0.8084</b>	<b>0.2110</b>	<b>0.0198</b>	<b>0.2308</b>	<b>21.5577</b>	<b>1,241.8096</b>	<b>1,263.3673</b>	<b>1.4881</b>	<b>0.0139</b>	<b>1,304.7030</b>

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**2.2 Overall Operational**

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.3460	0.0131	1.1320	6.0000e-005		6.2500e-003	6.2500e-003		6.2500e-003	6.2500e-003	0.0000	1.8474	1.8474	1.7900e-003	0.0000	1.8920
Energy	6.2800e-003	0.0548	0.0310	3.4000e-004		4.3400e-003	4.3400e-003		4.3400e-003	4.3400e-003	0.0000	389.5743	389.5743	0.0160	4.2000e-003	391.2266
Mobile	0.2782	1.1554	3.0354	8.6400e-003	0.7880	8.9600e-003	0.7969	0.2110	8.4100e-003	0.2194	0.0000	791.3005	791.3005	0.0320	0.0000	792.1015
Waste						0.0000	0.0000		0.0000	0.0000	17.8449	0.0000	17.8449	1.0546	0.0000	44.2101
Water						0.0000	0.0000		0.0000	0.0000	3.7128	29.0972	32.8100	0.3827	9.2800e-003	45.1408
<b>Total</b>	<b>1.6305</b>	<b>1.2232</b>	<b>4.1984</b>	<b>9.0400e-003</b>	<b>0.7880</b>	<b>0.0196</b>	<b>0.8075</b>	<b>0.2110</b>	<b>0.0190</b>	<b>0.2300</b>	<b>21.5577</b>	<b>1,211.8194</b>	<b>1,233.3771</b>	<b>1.4871</b>	<b>0.0135</b>	<b>1,274.5710</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
<b>Percent Reduction</b>	<b>0.07</b>	<b>0.86</b>	<b>0.15</b>	<b>0.77</b>	<b>0.00</b>	<b>4.12</b>	<b>0.10</b>	<b>0.00</b>	<b>4.23</b>	<b>0.36</b>	<b>0.00</b>	<b>2.42</b>	<b>2.37</b>	<b>0.07</b>	<b>2.81</b>	<b>2.31</b>

**3.0 Construction Detail**

**Construction Phase**

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Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/1/2020	1/14/2020	5	10	
2	Grading	Grading	1/15/2020	2/25/2020	5	30	
3	Building Construction	Building Construction	2/26/2020	4/20/2021	5	300	
4	Architectural Coating	Architectural Coating	10/21/2020	5/18/2021	5	150	
5	Paving	Paving	4/21/2021	5/18/2021	5	20	

**Acres of Grading (Site Preparation Phase): 0**

**Acres of Grading (Grading Phase): 75**

**Acres of Paving: 2.4**

**Residential Indoor: 168,075; Residential Outdoor: 56,025; Non-Residential Indoor: 251,418; Non-Residential Outdoor: 83,806; Striped Parking Area: 6,273 (Architectural Coating – sqft)**

**OffRoad Equipment**

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Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38

**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
Site Preparation	7	18.00	0.00	0.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	3,720.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	169.00	53.00	0.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	34.00	0.00	0.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

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Use Cleaner Engines for Construction Equipment

Use DPF for Construction Equipment

Clean Paved Roads

**3.2 Site Preparation - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0903	0.0000	0.0903	0.0497	0.0000	0.0497	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0204	0.2121	0.1076	1.9000e-004		0.0110	0.0110		0.0101	0.0101	0.0000	16.7153	16.7153	5.4100e-003	0.0000	16.8505
<b>Total</b>	<b>0.0204</b>	<b>0.2121</b>	<b>0.1076</b>	<b>1.9000e-004</b>	<b>0.0903</b>	<b>0.0110</b>	<b>0.1013</b>	<b>0.0497</b>	<b>0.0101</b>	<b>0.0598</b>	<b>0.0000</b>	<b>16.7153</b>	<b>16.7153</b>	<b>5.4100e-003</b>	<b>0.0000</b>	<b>16.8505</b>

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**3.2 Site Preparation - 2020**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	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	3.9000e-004	3.6000e-004	3.1000e-003	1.0000e-005	8.7000e-004	1.0000e-005	8.7000e-004	2.3000e-004	1.0000e-005	2.4000e-004	0.0000	0.7249	0.7249	2.0000e-005	0.0000	0.7255
<b>Total</b>	<b>3.9000e-004</b>	<b>3.6000e-004</b>	<b>3.1000e-003</b>	<b>1.0000e-005</b>	<b>8.7000e-004</b>	<b>1.0000e-005</b>	<b>8.7000e-004</b>	<b>2.3000e-004</b>	<b>1.0000e-005</b>	<b>2.4000e-004</b>	<b>0.0000</b>	<b>0.7249</b>	<b>0.7249</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.7255</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0903	0.0000	0.0903	0.0497	0.0000	0.0497	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.6600e-003	0.0953	0.1148	1.9000e-004		2.3700e-003	2.3700e-003		2.3700e-003	2.3700e-003	0.0000	16.7153	16.7153	5.4100e-003	0.0000	16.8505
<b>Total</b>	<b>4.6600e-003</b>	<b>0.0953</b>	<b>0.1148</b>	<b>1.9000e-004</b>	<b>0.0903</b>	<b>2.3700e-003</b>	<b>0.0927</b>	<b>0.0497</b>	<b>2.3700e-003</b>	<b>0.0520</b>	<b>0.0000</b>	<b>16.7153</b>	<b>16.7153</b>	<b>5.4100e-003</b>	<b>0.0000</b>	<b>16.8505</b>



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**3.2 Site Preparation - 2020**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	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	3.9000e-004	3.6000e-004	3.1000e-003	1.0000e-005	8.7000e-004	1.0000e-005	8.7000e-004	2.3000e-004	1.0000e-005	2.4000e-004	0.0000	0.7249	0.7249	2.0000e-005	0.0000	0.7255
<b>Total</b>	<b>3.9000e-004</b>	<b>3.6000e-004</b>	<b>3.1000e-003</b>	<b>1.0000e-005</b>	<b>8.7000e-004</b>	<b>1.0000e-005</b>	<b>8.7000e-004</b>	<b>2.3000e-004</b>	<b>1.0000e-005</b>	<b>2.4000e-004</b>	<b>0.0000</b>	<b>0.7249</b>	<b>0.7249</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.7255</b>

**3.3 Grading - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1328	0.0000	0.1328	0.0544	0.0000	0.0544	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0668	0.7530	0.4794	9.3000e-004		0.0326	0.0326		0.0300	0.0300	0.0000	81.7264	81.7264	0.0264	0.0000	82.3872
<b>Total</b>	<b>0.0668</b>	<b>0.7530</b>	<b>0.4794</b>	<b>9.3000e-004</b>	<b>0.1328</b>	<b>0.0326</b>	<b>0.1655</b>	<b>0.0544</b>	<b>0.0300</b>	<b>0.0844</b>	<b>0.0000</b>	<b>81.7264</b>	<b>81.7264</b>	<b>0.0264</b>	<b>0.0000</b>	<b>82.3872</b>

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**3.3 Grading - 2020**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0162	0.5983	0.1300	1.4600e-003	0.0317	2.6100e-003	0.0343	8.7100e-003	2.4900e-003	0.0112	0.0000	143.0784	143.0784	8.1100e-003	0.0000	143.2811
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	1.3100e-003	1.1900e-003	0.0103	3.0000e-005	2.8900e-003	2.0000e-005	2.9100e-003	7.7000e-004	2.0000e-005	7.9000e-004	0.0000	2.4162	2.4162	8.0000e-005	0.0000	2.4182
<b>Total</b>	<b>0.0175</b>	<b>0.5994</b>	<b>0.1403</b>	<b>1.4900e-003</b>	<b>0.0346</b>	<b>2.6300e-003</b>	<b>0.0372</b>	<b>9.4800e-003</b>	<b>2.5100e-003</b>	<b>0.0120</b>	<b>0.0000</b>	<b>145.4946</b>	<b>145.4946</b>	<b>8.1900e-003</b>	<b>0.0000</b>	<b>145.6993</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1328	0.0000	0.1328	0.0544	0.0000	0.0544	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0229	0.4497	0.5508	9.3000e-004		9.7500e-003	9.7500e-003		9.7500e-003	9.7500e-003	0.0000	81.7263	81.7263	0.0264	0.0000	82.3871
<b>Total</b>	<b>0.0229</b>	<b>0.4497</b>	<b>0.5508</b>	<b>9.3000e-004</b>	<b>0.1328</b>	<b>9.7500e-003</b>	<b>0.1426</b>	<b>0.0544</b>	<b>9.7500e-003</b>	<b>0.0641</b>	<b>0.0000</b>	<b>81.7263</b>	<b>81.7263</b>	<b>0.0264</b>	<b>0.0000</b>	<b>82.3871</b>

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**3.3 Grading - 2020**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0162	0.5983	0.1300	1.4600e-003	0.0317	2.6100e-003	0.0343	8.7100e-003	2.4900e-003	0.0112	0.0000	143.0784	143.0784	8.1100e-003	0.0000	143.2811
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	1.3100e-003	1.1900e-003	0.0103	3.0000e-005	2.8900e-003	2.0000e-005	2.9100e-003	7.7000e-004	2.0000e-005	7.9000e-004	0.0000	2.4162	2.4162	8.0000e-005	0.0000	2.4182
<b>Total</b>	<b>0.0175</b>	<b>0.5994</b>	<b>0.1403</b>	<b>1.4900e-003</b>	<b>0.0346</b>	<b>2.6300e-003</b>	<b>0.0372</b>	<b>9.4800e-003</b>	<b>2.5100e-003</b>	<b>0.0120</b>	<b>0.0000</b>	<b>145.4946</b>	<b>145.4946</b>	<b>8.1900e-003</b>	<b>0.0000</b>	<b>145.6993</b>

**3.4 Building Construction - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2353	2.1297	1.8702	2.9900e-003		0.1240	0.1240		0.1166	0.1166	0.0000	257.0871	257.0871	0.0627	0.0000	258.6551
<b>Total</b>	<b>0.2353</b>	<b>2.1297</b>	<b>1.8702</b>	<b>2.9900e-003</b>		<b>0.1240</b>	<b>0.1240</b>		<b>0.1166</b>	<b>0.1166</b>	<b>0.0000</b>	<b>257.0871</b>	<b>257.0871</b>	<b>0.0627</b>	<b>0.0000</b>	<b>258.6551</b>

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**3.4 Building Construction - 2020**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0219	0.6124	0.1855	1.1700e-003	0.0267	3.3400e-003	0.0301	7.7200e-003	3.1900e-003	0.0109	0.0000	113.1821	113.1821	6.8100e-003	0.0000	113.3523
Worker	0.0820	0.0745	0.6452	1.6700e-003	0.1806	1.1900e-003	0.1818	0.0480	1.0900e-003	0.0491	0.0000	151.0865	151.0865	4.9700e-003	0.0000	151.2109
<b>Total</b>	<b>0.1039</b>	<b>0.6869</b>	<b>0.8308</b>	<b>2.8400e-003</b>	<b>0.2073</b>	<b>4.5300e-003</b>	<b>0.2118</b>	<b>0.0557</b>	<b>4.2800e-003</b>	<b>0.0600</b>	<b>0.0000</b>	<b>264.2686</b>	<b>264.2686</b>	<b>0.0118</b>	<b>0.0000</b>	<b>264.5632</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0748	1.5791	1.9840	2.9900e-003		0.0502	0.0502		0.0502	0.0502	0.0000	257.0868	257.0868	0.0627	0.0000	258.6548
<b>Total</b>	<b>0.0748</b>	<b>1.5791</b>	<b>1.9840</b>	<b>2.9900e-003</b>		<b>0.0502</b>	<b>0.0502</b>		<b>0.0502</b>	<b>0.0502</b>	<b>0.0000</b>	<b>257.0868</b>	<b>257.0868</b>	<b>0.0627</b>	<b>0.0000</b>	<b>258.6548</b>

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**3.4 Building Construction - 2020**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0219	0.6124	0.1855	1.1700e-003	0.0267	3.3400e-003	0.0301	7.7200e-003	3.1900e-003	0.0109	0.0000	113.1821	113.1821	6.8100e-003	0.0000	113.3523
Worker	0.0820	0.0745	0.6452	1.6700e-003	0.1806	1.1900e-003	0.1818	0.0480	1.0900e-003	0.0491	0.0000	151.0865	151.0865	4.9700e-003	0.0000	151.2109
<b>Total</b>	<b>0.1039</b>	<b>0.6869</b>	<b>0.8308</b>	<b>2.8400e-003</b>	<b>0.2073</b>	<b>4.5300e-003</b>	<b>0.2118</b>	<b>0.0557</b>	<b>4.2800e-003</b>	<b>0.0600</b>	<b>0.0000</b>	<b>264.2686</b>	<b>264.2686</b>	<b>0.0118</b>	<b>0.0000</b>	<b>264.5632</b>

**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	tons/yr										MT/yr					
Off-Road	0.0741	0.6799	0.6464	1.0500e-003		0.0374	0.0374		0.0352	0.0352	0.0000	90.3385	90.3385	0.0218	0.0000	90.8834
<b>Total</b>	<b>0.0741</b>	<b>0.6799</b>	<b>0.6464</b>	<b>1.0500e-003</b>		<b>0.0374</b>	<b>0.0374</b>		<b>0.0352</b>	<b>0.0352</b>	<b>0.0000</b>	<b>90.3385</b>	<b>90.3385</b>	<b>0.0218</b>	<b>0.0000</b>	<b>90.8834</b>

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**3.4 Building Construction - 2021**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.3000e-003	0.1968	0.0577	4.1000e-004	9.3900e-003	5.6000e-004	9.9500e-003	2.7100e-003	5.4000e-004	3.2500e-003	0.0000	39.5283	39.5283	2.3300e-003	0.0000	39.5866
Worker	0.0269	0.0234	0.2055	5.7000e-004	0.0635	4.0000e-004	0.0639	0.0169	3.7000e-004	0.0172	0.0000	51.2753	51.2753	1.5500e-003	0.0000	51.3141
<b>Total</b>	<b>0.0332</b>	<b>0.2202</b>	<b>0.2631</b>	<b>9.8000e-004</b>	<b>0.0728</b>	<b>9.6000e-004</b>	<b>0.0738</b>	<b>0.0196</b>	<b>9.1000e-004</b>	<b>0.0205</b>	<b>0.0000</b>	<b>90.8036</b>	<b>90.8036</b>	<b>3.8800e-003</b>	<b>0.0000</b>	<b>90.9007</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0263	0.5548	0.6971	1.0500e-003		0.0176	0.0176		0.0176	0.0176	0.0000	90.3384	90.3384	0.0218	0.0000	90.8833
<b>Total</b>	<b>0.0263</b>	<b>0.5548</b>	<b>0.6971</b>	<b>1.0500e-003</b>		<b>0.0176</b>	<b>0.0176</b>		<b>0.0176</b>	<b>0.0176</b>	<b>0.0000</b>	<b>90.3384</b>	<b>90.3384</b>	<b>0.0218</b>	<b>0.0000</b>	<b>90.8833</b>

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**3.4 Building Construction - 2021**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.3000e-003	0.1968	0.0577	4.1000e-004	9.3900e-003	5.6000e-004	9.9500e-003	2.7100e-003	5.4000e-004	3.2500e-003	0.0000	39.5283	39.5283	2.3300e-003	0.0000	39.5866
Worker	0.0269	0.0234	0.2055	5.7000e-004	0.0635	4.0000e-004	0.0639	0.0169	3.7000e-004	0.0172	0.0000	51.2753	51.2753	1.5500e-003	0.0000	51.3141
<b>Total</b>	<b>0.0332</b>	<b>0.2202</b>	<b>0.2631</b>	<b>9.8000e-004</b>	<b>0.0728</b>	<b>9.6000e-004</b>	<b>0.0738</b>	<b>0.0196</b>	<b>9.1000e-004</b>	<b>0.0205</b>	<b>0.0000</b>	<b>90.8036</b>	<b>90.8036</b>	<b>3.8800e-003</b>	<b>0.0000</b>	<b>90.9007</b>

**3.5 Architectural Coating - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.2272					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.3000e-003	0.0438	0.0476	8.0000e-005		2.8800e-003	2.8800e-003		2.8800e-003	2.8800e-003	0.0000	6.6385	6.6385	5.1000e-004	0.0000	6.6513
<b>Total</b>	<b>0.2335</b>	<b>0.0438</b>	<b>0.0476</b>	<b>8.0000e-005</b>		<b>2.8800e-003</b>	<b>2.8800e-003</b>		<b>2.8800e-003</b>	<b>2.8800e-003</b>	<b>0.0000</b>	<b>6.6385</b>	<b>6.6385</b>	<b>5.1000e-004</b>	<b>0.0000</b>	<b>6.6513</b>

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**3.5 Architectural Coating - 2020**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	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	3.8700e-003	3.5100e-003	0.0304	8.0000e-005	8.5100e-003	6.0000e-005	8.5700e-003	2.2600e-003	5.0000e-005	2.3100e-003	0.0000	7.1198	7.1198	2.3000e-004	0.0000	7.1257
<b>Total</b>	<b>3.8700e-003</b>	<b>3.5100e-003</b>	<b>0.0304</b>	<b>8.0000e-005</b>	<b>8.5100e-003</b>	<b>6.0000e-005</b>	<b>8.5700e-003</b>	<b>2.2600e-003</b>	<b>5.0000e-005</b>	<b>2.3100e-003</b>	<b>0.0000</b>	<b>7.1198</b>	<b>7.1198</b>	<b>2.3000e-004</b>	<b>0.0000</b>	<b>7.1257</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.2272					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.5500e-003	0.0353	0.0476	8.0000e-005		1.2400e-003	1.2400e-003		1.2400e-003	1.2400e-003	0.0000	6.6385	6.6385	5.1000e-004	0.0000	6.6513
<b>Total</b>	<b>0.2288</b>	<b>0.0353</b>	<b>0.0476</b>	<b>8.0000e-005</b>		<b>1.2400e-003</b>	<b>1.2400e-003</b>		<b>1.2400e-003</b>	<b>1.2400e-003</b>	<b>0.0000</b>	<b>6.6385</b>	<b>6.6385</b>	<b>5.1000e-004</b>	<b>0.0000</b>	<b>6.6513</b>



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**3.5 Architectural Coating - 2020**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	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	3.8700e-003	3.5100e-003	0.0304	8.0000e-005	8.5100e-003	6.0000e-005	8.5700e-003	2.2600e-003	5.0000e-005	2.3100e-003	0.0000	7.1198	7.1198	2.3000e-004	0.0000	7.1257
<b>Total</b>	<b>3.8700e-003</b>	<b>3.5100e-003</b>	<b>0.0304</b>	<b>8.0000e-005</b>	<b>8.5100e-003</b>	<b>6.0000e-005</b>	<b>8.5700e-003</b>	<b>2.2600e-003</b>	<b>5.0000e-005</b>	<b>2.3100e-003</b>	<b>0.0000</b>	<b>7.1198</b>	<b>7.1198</b>	<b>2.3000e-004</b>	<b>0.0000</b>	<b>7.1257</b>

**3.5 Architectural Coating - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.4282					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0107	0.0748	0.0891	1.5000e-004		4.6100e-003	4.6100e-003		4.6100e-003	4.6100e-003	0.0000	12.5109	12.5109	8.6000e-004	0.0000	12.5324
<b>Total</b>	<b>0.4389</b>	<b>0.0748</b>	<b>0.0891</b>	<b>1.5000e-004</b>		<b>4.6100e-003</b>	<b>4.6100e-003</b>		<b>4.6100e-003</b>	<b>4.6100e-003</b>	<b>0.0000</b>	<b>12.5109</b>	<b>12.5109</b>	<b>8.6000e-004</b>	<b>0.0000</b>	<b>12.5324</b>

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**3.5 Architectural Coating - 2021**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.7900e-003	5.9200e-003	0.0519	1.4000e-004	0.0160	1.0000e-004	0.0161	4.2600e-003	9.0000e-005	4.3600e-003	0.0000	12.9608	12.9608	3.9000e-004	0.0000	12.9706
<b>Total</b>	<b>6.7900e-003</b>	<b>5.9200e-003</b>	<b>0.0519</b>	<b>1.4000e-004</b>	<b>0.0160</b>	<b>1.0000e-004</b>	<b>0.0161</b>	<b>4.2600e-003</b>	<b>9.0000e-005</b>	<b>4.3600e-003</b>	<b>0.0000</b>	<b>12.9608</b>	<b>12.9608</b>	<b>3.9000e-004</b>	<b>0.0000</b>	<b>12.9706</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.4282					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.9100e-003	0.0665	0.0898	1.5000e-004		2.3300e-003	2.3300e-003		2.3300e-003	2.3300e-003	0.0000	12.5109	12.5109	8.6000e-004	0.0000	12.5324
<b>Total</b>	<b>0.4311</b>	<b>0.0665</b>	<b>0.0898</b>	<b>1.5000e-004</b>		<b>2.3300e-003</b>	<b>2.3300e-003</b>		<b>2.3300e-003</b>	<b>2.3300e-003</b>	<b>0.0000</b>	<b>12.5109</b>	<b>12.5109</b>	<b>8.6000e-004</b>	<b>0.0000</b>	<b>12.5324</b>

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**3.5 Architectural Coating - 2021**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.7900e-003	5.9200e-003	0.0519	1.4000e-004	0.0160	1.0000e-004	0.0161	4.2600e-003	9.0000e-005	4.3600e-003	0.0000	12.9608	12.9608	3.9000e-004	0.0000	12.9706
<b>Total</b>	<b>6.7900e-003</b>	<b>5.9200e-003</b>	<b>0.0519</b>	<b>1.4000e-004</b>	<b>0.0160</b>	<b>1.0000e-004</b>	<b>0.0161</b>	<b>4.2600e-003</b>	<b>9.0000e-005</b>	<b>4.3600e-003</b>	<b>0.0000</b>	<b>12.9608</b>	<b>12.9608</b>	<b>3.9000e-004</b>	<b>0.0000</b>	<b>12.9706</b>

**3.6 Paving - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0126	0.1292	0.1465	2.3000e-004		6.7800e-003	6.7800e-003		6.2400e-003	6.2400e-003	0.0000	20.0235	20.0235	6.4800e-003	0.0000	20.1854
Paving	3.1400e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0157</b>	<b>0.1292</b>	<b>0.1465</b>	<b>2.3000e-004</b>		<b>6.7800e-003</b>	<b>6.7800e-003</b>		<b>6.2400e-003</b>	<b>6.2400e-003</b>	<b>0.0000</b>	<b>20.0235</b>	<b>20.0235</b>	<b>6.4800e-003</b>	<b>0.0000</b>	<b>20.1854</b>

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**3.6 Paving - 2021**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.1000e-004	5.3000e-004	4.6800e-003	1.0000e-005	1.4400e-003	1.0000e-005	1.4500e-003	3.8000e-004	1.0000e-005	3.9000e-004	0.0000	1.1669	1.1669	4.0000e-005	0.0000	1.1678
<b>Total</b>	<b>6.1000e-004</b>	<b>5.3000e-004</b>	<b>4.6800e-003</b>	<b>1.0000e-005</b>	<b>1.4400e-003</b>	<b>1.0000e-005</b>	<b>1.4500e-003</b>	<b>3.8000e-004</b>	<b>1.0000e-005</b>	<b>3.9000e-004</b>	<b>0.0000</b>	<b>1.1669</b>	<b>1.1669</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>1.1678</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	5.6100e-003	0.1130	0.1730	2.3000e-004		3.0500e-003	3.0500e-003		3.0500e-003	3.0500e-003	0.0000	20.0235	20.0235	6.4800e-003	0.0000	20.1854
Paving	3.1400e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>8.7500e-003</b>	<b>0.1130</b>	<b>0.1730</b>	<b>2.3000e-004</b>		<b>3.0500e-003</b>	<b>3.0500e-003</b>		<b>3.0500e-003</b>	<b>3.0500e-003</b>	<b>0.0000</b>	<b>20.0235</b>	<b>20.0235</b>	<b>6.4800e-003</b>	<b>0.0000</b>	<b>20.1854</b>

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**3.6 Paving - 2021**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.1000e-004	5.3000e-004	4.6800e-003	1.0000e-005	1.4400e-003	1.0000e-005	1.4500e-003	3.8000e-004	1.0000e-005	3.9000e-004	0.0000	1.1669	1.1669	4.0000e-005	0.0000	1.1678
<b>Total</b>	<b>6.1000e-004</b>	<b>5.3000e-004</b>	<b>4.6800e-003</b>	<b>1.0000e-005</b>	<b>1.4400e-003</b>	<b>1.0000e-005</b>	<b>1.4500e-003</b>	<b>3.8000e-004</b>	<b>1.0000e-005</b>	<b>3.9000e-004</b>	<b>0.0000</b>	<b>1.1669</b>	<b>1.1669</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>1.1678</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

Mitigated - San Luis Ranch Project - 2020 Start - San Luis Obispo County APCD Air District, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.2782	1.1554	3.0354	8.6400e-003	0.7880	8.9600e-003	0.7969	0.2110	8.4100e-003	0.2194	0.0000	791.3005	791.3005	0.0320	0.0000	792.1015
Unmitigated	0.2782	1.1554	3.0354	8.6400e-003	0.7880	8.9600e-003	0.7969	0.2110	8.4100e-003	0.2194	0.0000	791.3005	791.3005	0.0320	0.0000	792.1015

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	422.47	439.07	382.63	1,065,294	1,065,294
City Park	119.99	61.43	45.20	205,134	205,134
General Office Building	300.00	67.00	28.50	518,513	518,513
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Regional Shopping Center	221.75	259.50	131.00	309,253	309,253
Total	1,064.21	827.00	587.33	2,098,193	2,098,193

4.3 Trip Type Information

Mitigated - San Luis Ranch Project - 2020 Start - San Luis Obispo County APCD Air District, Annual

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
Apartments Mid Rise	13.00	5.00	5.00	35.80	21.00	43.20	86	11	3
City Park	13.00	5.00	5.00	33.00	48.00	19.00	66	28	6
General Office Building	13.00	5.00	5.00	33.00	48.00	19.00	77	19	4
Parking Lot	13.00	5.00	5.00	0.00	0.00	0.00	0	0	0
Parking Lot	13.00	5.00	5.00	0.00	0.00	0.00	0	0	0
Regional Shopping Center	13.00	5.00	5.00	16.30	64.70	19.00	54	35	11

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	0.575581	0.029595	0.198288	0.120539	0.026172	0.006482	0.012911	0.019591	0.002354	0.001214	0.005068	0.000784	0.001422
Parking Lot	0.575581	0.029595	0.198288	0.120539	0.026172	0.006482	0.012911	0.019591	0.002354	0.001214	0.005068	0.000784	0.001422
Parking Lot	0.575581	0.029595	0.198288	0.120539	0.026172	0.006482	0.012911	0.019591	0.002354	0.001214	0.005068	0.000784	0.001422
City Park	0.575581	0.029595	0.198288	0.120539	0.026172	0.006482	0.012911	0.019591	0.002354	0.001214	0.005068	0.000784	0.001422
Apartments Mid Rise	0.575581	0.029595	0.198288	0.120539	0.026172	0.006482	0.012911	0.019591	0.002354	0.001214	0.005068	0.000784	0.001422
Regional Shopping Center	0.575581	0.029595	0.198288	0.120539	0.026172	0.006482	0.012911	0.019591	0.002354	0.001214	0.005068	0.000784	0.001422

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

Exceed Title 24

Install Energy Efficient Appliances

Mitigated - San Luis Ranch Project - 2020 Start - San Luis Obispo County APCD Air District, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	327.4450	327.4450	0.0148	3.0600e-003	328.7281
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	345.4164	345.4164	0.0156	3.2300e-003	346.7699
NaturalGas Mitigated	6.2800e-003	0.0548	0.0310	3.4000e-004		4.3400e-003	4.3400e-003		4.3400e-003	4.3400e-003	0.0000	62.1293	62.1293	1.1900e-003	1.1400e-003	62.4985
NaturalGas Unmitigated	7.4900e-003	0.0654	0.0374	4.1000e-004		5.1800e-003	5.1800e-003		5.1800e-003	5.1800e-003	0.0000	74.1481	74.1481	1.4200e-003	1.3600e-003	74.5887



Mitigated - San Luis Ranch Project - 2020 Start - San Luis Obispo County APCD Air District, Annual

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	918733	4.9500e-003	0.0423	0.0180	2.7000e-004		3.4200e-003	3.4200e-003		3.4200e-003	3.4200e-003	0.0000	49.0271	49.0271	9.4000e-004	9.0000e-004	49.3184
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
General Office Building	411250	2.2200e-003	0.0202	0.0169	1.2000e-004		1.5300e-003	1.5300e-003		1.5300e-003	1.5300e-003	0.0000	21.9459	21.9459	4.2000e-004	4.0000e-004	22.0763
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	59500	3.2000e-004	2.9200e-003	2.4500e-003	2.0000e-005		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004	0.0000	3.1752	3.1752	6.0000e-005	6.0000e-005	3.1940
<b>Total</b>		<b>7.4900e-003</b>	<b>0.0654</b>	<b>0.0374</b>	<b>4.1000e-004</b>		<b>5.1700e-003</b>	<b>5.1700e-003</b>		<b>5.1700e-003</b>	<b>5.1700e-003</b>	<b>0.0000</b>	<b>74.1481</b>	<b>74.1481</b>	<b>1.4200e-003</b>	<b>1.3600e-003</b>	<b>74.5887</b>

Mitigated - San Luis Ranch Project - 2020 Start - San Luis Obispo County APCD Air District, Annual

**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	tons/yr										MT/yr					
Apartments Mid Rise	787359	4.2500e-003	0.0363	0.0154	2.3000e-004		2.9300e-003	2.9300e-003		2.9300e-003	2.9300e-003	0.0000	42.0165	42.0165	8.1000e-004	7.7000e-004	42.2662
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
General Office Building	329300	1.7800e-003	0.0161	0.0136	1.0000e-004		1.2300e-003	1.2300e-003		1.2300e-003	1.2300e-003	0.0000	17.5727	17.5727	3.4000e-004	3.2000e-004	17.6771
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	47600	2.6000e-004	2.3300e-003	1.9600e-003	1.0000e-005		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004	0.0000	2.5401	2.5401	5.0000e-005	5.0000e-005	2.5552
<b>Total</b>		<b>6.2900e-003</b>	<b>0.0548</b>	<b>0.0310</b>	<b>3.4000e-004</b>		<b>4.3400e-003</b>	<b>4.3400e-003</b>		<b>4.3400e-003</b>	<b>4.3400e-003</b>	<b>0.0000</b>	<b>62.1293</b>	<b>62.1293</b>	<b>1.2000e-003</b>	<b>1.1400e-003</b>	<b>62.4985</b>

Mitigated - San Luis Ranch Project - 2020 Start - San Luis Obispo County APCD Air District, Annual

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	366111	106.5058	4.8200e-003	1.0000e-003	106.9231
City Park	0	0.0000	0.0000	0.0000	0.0000
General Office Building	455500	132.5102	5.9900e-003	1.2400e-003	133.0294
Parking Lot	22999.7	6.6909	3.0000e-004	6.0000e-005	6.7171
Parking Lot	68999	20.0726	9.1000e-004	1.9000e-004	20.1513
Regional Shopping Center	273750	79.6370	3.6000e-003	7.5000e-004	79.9491
<b>Total</b>		<b>345.4164</b>	<b>0.0156</b>	<b>3.2400e-003</b>	<b>346.7699</b>

Mitigated - San Luis Ranch Project - 2020 Start - San Luis Obispo County APCD Air District, Annual

**5.3 Energy by Land Use - Electricity**

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	350784	102.0472	4.6100e-003	9.5000e-004	102.4471
City Park	0	0.0000	0.0000	0.0000	0.0000
General Office Building	423500	123.2010	5.5700e-003	1.1500e-003	123.6837
Parking Lot	22999.7	6.6909	3.0000e-004	6.0000e-005	6.7171
Parking Lot	68999	20.0726	9.1000e-004	1.9000e-004	20.1513
Regional Shopping Center	259300	75.4333	3.4100e-003	7.1000e-004	75.7289
<b>Total</b>		<b>327.4450</b>	<b>0.0148</b>	<b>3.0600e-003</b>	<b>328.7281</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

Use only Natural Gas Hearths

No Hearths Installed

Mitigated - San Luis Ranch Project - 2020 Start - San Luis Obispo County APCD Air District, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1.3460	0.0131	1.1320	6.0000e-005		6.2500e-003	6.2500e-003		6.2500e-003	6.2500e-003	0.0000	1.8474	1.8474	1.7900e-003	0.0000	1.8920
Unmitigated	1.3460	0.0131	1.1320	6.0000e-005		6.2500e-003	6.2500e-003		6.2500e-003	6.2500e-003	0.0000	1.8474	1.8474	1.7900e-003	0.0000	1.8920

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.3262					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.9855					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0343	0.0131	1.1320	6.0000e-005		6.2500e-003	6.2500e-003		6.2500e-003	6.2500e-003	0.0000	1.8474	1.8474	1.7900e-003	0.0000	1.8920
<b>Total</b>	<b>1.3460</b>	<b>0.0131</b>	<b>1.1320</b>	<b>6.0000e-005</b>		<b>6.2500e-003</b>	<b>6.2500e-003</b>		<b>6.2500e-003</b>	<b>6.2500e-003</b>	<b>0.0000</b>	<b>1.8474</b>	<b>1.8474</b>	<b>1.7900e-003</b>	<b>0.0000</b>	<b>1.8920</b>

Mitigated - San Luis Ranch Project - 2020 Start - San Luis Obispo County APCD Air District, Annual

**6.2 Area by SubCategory**

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.3262					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.9855					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0343	0.0131	1.1320	6.0000e-005		6.2500e-003	6.2500e-003		6.2500e-003	6.2500e-003	0.0000	1.8474	1.8474	1.7900e-003	0.0000	1.8920
<b>Total</b>	<b>1.3460</b>	<b>0.0131</b>	<b>1.1320</b>	<b>6.0000e-005</b>		<b>6.2500e-003</b>	<b>6.2500e-003</b>		<b>6.2500e-003</b>	<b>6.2500e-003</b>	<b>0.0000</b>	<b>1.8474</b>	<b>1.8474</b>	<b>1.7900e-003</b>	<b>0.0000</b>	<b>1.8920</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

Mitigated - San Luis Ranch Project - 2020 Start - San Luis Obispo County APCD Air District, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	32.8100	0.3827	9.2800e-003	45.1408
Unmitigated	32.8100	0.3827	9.2800e-003	45.1408

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	5.40778 / 3.40926	13.6994	0.1768	4.2700e-003	19.3916
City Park	0 / 3.217	3.2755	1.5000e-004	3.0000e-005	3.2884
General Office Building	4.44334 / 2.72334	11.1769	0.1452	3.5100e-003	15.8536
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	1.85181 / 1.13498	4.6581	0.0605	1.4600e-003	6.6072
<b>Total</b>		<b>32.8100</b>	<b>0.3827</b>	<b>9.2700e-003</b>	<b>45.1407</b>

## Mitigated - San Luis Ranch Project - 2020 Start - San Luis Obispo County APCD Air District, Annual

**7.2 Water by Land Use****Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	5.40778 / 3.40926	13.6994	0.1768	4.2700e-003	19.3916
City Park	0 / 3.217	3.2755	1.5000e-004	3.0000e-005	3.2884
General Office Building	4.44334 / 2.72334	11.1769	0.1452	3.5100e-003	15.8536
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	1.85181 / 1.13498	4.6581	0.0605	1.4600e-003	6.6072
<b>Total</b>		<b>32.8100</b>	<b>0.3827</b>	<b>9.2700e-003</b>	<b>45.1407</b>

**8.0 Waste Detail****8.1 Mitigation Measures Waste**



Mitigated - San Luis Ranch Project - 2020 Start - San Luis Obispo County APCD Air District, Annual

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	17.8449	1.0546	0.0000	44.2101
Unmitigated	17.8449	1.0546	0.0000	44.2101

**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	38.18	7.7502	0.4580	0.0000	19.2008
City Park	0.23	0.0467	2.7600e-003	0.0000	0.1157
General Office Building	23.25	4.7195	0.2789	0.0000	11.6925
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	26.25	5.3285	0.3149	0.0000	13.2012
<b>Total</b>		<b>17.8449</b>	<b>1.0546</b>	<b>0.0000</b>	<b>44.2101</b>

Mitigated - San Luis Ranch Project - 2020 Start - San Luis Obispo County APCD Air District, Annual

**8.2 Waste by Land Use**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	38.18	7.7502	0.4580	0.0000	19.2008
City Park	0.23	0.0467	2.7600e-003	0.0000	0.1157
General Office Building	23.25	4.7195	0.2789	0.0000	11.6925
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	26.25	5.3285	0.3149	0.0000	13.2012
<b>Total</b>		<b>17.8449</b>	<b>1.0546</b>	<b>0.0000</b>	<b>44.2101</b>

**9.0 Operational Offroad**

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

Fire Pumps and Emergency Generators

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

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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Mitigated - San Luis Ranch Project - 2020 Start - San Luis Obispo County APCD Air District, Annual

**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

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Mitigated - San Luis Ranch Project - 2020 Start - San Luis Obispo County APCD Air District, Summer

**Mitigated - San Luis Ranch Project - 2020 Start**  
**San Luis Obispo County APCD Air District, Summer**

## 1.0 Project Characteristics

### 1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	25.00	1000sqft	1.30	25,000.00	0
Parking Lot	0.60	Acre	0.60	26,136.00	0
Parking Lot	1.80	Acre	1.80	78,408.00	0
City Park	2.70	Acre	2.70	117,612.00	0
Apartments Mid Rise	83.00	Dwelling Unit	4.00	83,000.00	237
Regional Shopping Center	25.00	1000sqft	0.57	25,000.00	0

### 1.2 Other Project Characteristics

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	3.2	<b>Precipitation Freq (Days)</b>	44
<b>Climate Zone</b>	4			<b>Operational Year</b>	2022
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MW hr)</b>	641.35	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

### 1.3 User Entered Comments & Non-Default Data

Mitigated - San Luis Ranch Project - 2020 Start - San Luis Obispo County APCD Air District, Summer

Project Characteristics -

Land Use - Land use values from buildout and phasing in Specific Plan Section 7.7. Includes portions of Phases 3, 5, and 6. Ag SF from Sect 3.9 of Specific Plan.

Construction Phase - No demolition. AC expected to overlap with half of building construction as painting would occur as buildings are finished.

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Demolition -

Grading - Total import proportionally distributed by phase acreage.

Architectural Coating - Per MM AQ-2

Vehicle Trips - Trip generation rate based on Omni-Means 2016 Traffic Impact Study.

Woodstoves - Per MM AQ-3

Construction Off-road Equipment Mitigation - Per MM AQ-2

Mobile Land Use Mitigation - Trip reductions from project's density, diversity, and access to alternative transportation accounted for in trip generation rates.

Area Mitigation - Per MM AQ-3

Energy Mitigation - Per Specific Plan, appliances will be energy efficient. Per MM AQ-3

Water Mitigation -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	50.00
tblArchitecturalCoating	EF_Parking	150.00	50.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	50.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	50.00
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	0
tblConstEquipMitigation	DPF	No Change	Level 2
tblConstEquipMitigation	DPF	No Change	Level 2
tblConstEquipMitigation	DPF	No Change	Level 2

Mitigated - San Luis Ranch Project - 2020 Start - San Luis Obispo County APCD Air District, Summer

tblConstEquipMitigation	DPF	No Change	Level 2
tblConstEquipMitigation	DPF	No Change	Level 2
tblConstEquipMitigation	DPF	No Change	Level 2
tblConstEquipMitigation	DPF	No Change	Level 2
tblConstEquipMitigation	DPF	No Change	Level 2
tblConstEquipMitigation	DPF	No Change	Level 2
tblConstEquipMitigation	DPF	No Change	Level 2
tblConstEquipMitigation	DPF	No Change	Level 2
tblConstEquipMitigation	DPF	No Change	Level 2
tblConstEquipMitigation	DPF	No Change	Level 2
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3

## Mitigated - San Luis Ranch Project - 2020 Start - San Luis Obispo County APCD Air District, Summer

tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	20.00	150.00
tblGrading	MaterialImported	0.00	29,760.00
tblLandUse	BuildingSpaceSquareFeet	0.00	117,612.00
tblLandUse	GreenSpaceSquareFeet	117,612.00	0.00
tblLandUse	LotAcreage	0.57	1.30
tblLandUse	LotAcreage	2.18	4.00
tblProjectCharacteristics	OperationalYear	2018	2022
tblVehicleTrips	ST_TR	6.39	5.29
tblVehicleTrips	ST_TR	2.46	2.68
tblVehicleTrips	ST_TR	49.97	10.38
tblVehicleTrips	SU_TR	5.86	4.61
tblVehicleTrips	SU_TR	1.05	1.14
tblVehicleTrips	SU_TR	25.24	5.24
tblVehicleTrips	WD_TR	6.65	5.09
tblVehicleTrips	WD_TR	1.89	44.44
tblVehicleTrips	WD_TR	11.03	12.00
tblVehicleTrips	WD_TR	42.70	8.87
tblWoodstoves	WoodstoveDayYear	60.00	0.00

Mitigated - San Luis Ranch Project - 2020 Start - San Luis Obispo County APCD Air District, Summer

tblWoodstoves	WoodstoveWoodMass	2,016.00	0.00
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## 2.0 Emissions Summary

### 2.1 Overall Construction (Maximum Daily Emission)

#### Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	12.1609	89.3882	41.0973	0.1620	18.2442	2.3474	20.4428	9.9779	2.1659	12.0006	0.0000	16,770.37 29	16,770.37 29	2.5356	0.0000	16,833.76 25
2021	11.8240	24.6163	26.3187	0.0587	2.2530	1.0792	3.3322	0.6031	1.0203	1.6234	0.0000	5,778.237 6	5,778.237 6	0.7535	0.0000	5,797.075 2
<b>Maximum</b>	<b>12.1609</b>	<b>89.3882</b>	<b>41.0973</b>	<b>0.1620</b>	<b>18.2442</b>	<b>2.3474</b>	<b>20.4428</b>	<b>9.9779</b>	<b>2.1659</b>	<b>12.0006</b>	<b>0.0000</b>	<b>16,770.37 29</b>	<b>16,770.37 29</b>	<b>2.5356</b>	<b>0.0000</b>	<b>16,833.76 25</b>

#### Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	10.5323	69.1689	45.8616	0.1620	18.2442	0.8232	18.7184	9.9779	0.8156	10.4520	0.0000	16,770.37 29	16,770.37 29	2.5356	0.0000	16,833.76 25
2021	10.4375	21.2404	27.6321	0.0587	2.2530	0.5258	2.7787	0.6031	0.5242	1.1274	0.0000	5,778.237 6	5,778.237 6	0.7535	0.0000	5,797.075 2
<b>Maximum</b>	<b>10.5323</b>	<b>69.1689</b>	<b>45.8616</b>	<b>0.1620</b>	<b>18.2442</b>	<b>0.8232</b>	<b>18.7184</b>	<b>9.9779</b>	<b>0.8156</b>	<b>10.4520</b>	<b>0.0000</b>	<b>16,770.37 29</b>	<b>16,770.37 29</b>	<b>2.5356</b>	<b>0.0000</b>	<b>16,833.76 25</b>



## Mitigated - San Luis Ranch Project - 2020 Start - San Luis Obispo County APCD Air District, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	12.57	20.70	-9.02	0.00	0.00	60.63	9.58	0.00	57.95	15.01	0.00	0.00	0.00	0.00	0.00	0.00

Mitigated - San Luis Ranch Project - 2020 Start - San Luis Obispo County APCD Air District, Summer

**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	7.3953	0.0791	6.8606	3.6000e-004		0.0379	0.0379		0.0379	0.0379	0.0000	12.3419	12.3419	0.0119	0.0000	12.6401
Energy	0.0411	0.3584	0.2049	2.2400e-003		0.0284	0.0284		0.0284	0.0284		447.8591	447.8591	8.5800e-003	8.2100e-003	450.5205
Mobile	1.8744	7.0819	19.1218	0.0566	5.1194	0.0566	5.1760	1.3676	0.0531	1.4207		5,707.6178	5,707.6178	0.2233		5,713.2001
<b>Total</b>	<b>9.3108</b>	<b>7.5195</b>	<b>26.1874</b>	<b>0.0592</b>	<b>5.1194</b>	<b>0.1229</b>	<b>5.2423</b>	<b>1.3676</b>	<b>0.1194</b>	<b>1.4870</b>	<b>0.0000</b>	<b>6,167.8188</b>	<b>6,167.8188</b>	<b>0.2438</b>	<b>8.2100e-003</b>	<b>6,176.3607</b>

**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	7.3953	0.0791	6.8606	3.6000e-004		0.0379	0.0379		0.0379	0.0379	0.0000	12.3419	12.3419	0.0119	0.0000	12.6401
Energy	0.0344	0.3000	0.1696	1.8800e-003		0.0238	0.0238		0.0238	0.0238		375.2649	375.2649	7.1900e-003	6.8800e-003	377.4949
Mobile	1.8744	7.0819	19.1218	0.0566	5.1194	0.0566	5.1760	1.3676	0.0531	1.4207		5,707.6178	5,707.6178	0.2233		5,713.2001
<b>Total</b>	<b>9.3041</b>	<b>7.4611</b>	<b>26.1521</b>	<b>0.0588</b>	<b>5.1194</b>	<b>0.1183</b>	<b>5.2377</b>	<b>1.3676</b>	<b>0.1148</b>	<b>1.4824</b>	<b>0.0000</b>	<b>6,095.2246</b>	<b>6,095.2246</b>	<b>0.2424</b>	<b>6.8800e-003</b>	<b>6,103.3351</b>

## Mitigated - San Luis Ranch Project - 2020 Start - San Luis Obispo County APCD Air District, Summer

	ROG	NOx	CO	SO2	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	0.07	0.78	0.13	0.61	0.00	3.74	0.09	0.00	3.85	0.31	0.00	1.18	1.18	0.57	16.20	1.18

### 3.0 Construction Detail

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#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/1/2020	1/14/2020	5	10	
2	Grading	Grading	1/15/2020	2/25/2020	5	30	
3	Building Construction	Building Construction	2/26/2020	4/20/2021	5	300	
4	Architectural Coating	Architectural Coating	10/21/2020	5/18/2021	5	150	
5	Paving	Paving	4/21/2021	5/18/2021	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 75

Acres of Paving: 2.4

Residential Indoor: 168,075; Residential Outdoor: 56,025; Non-Residential Indoor: 251,418; Non-Residential Outdoor: 83,806; Striped Parking Area: 6,273 (Architectural Coating – sqft)

#### OffRoad Equipment

Mitigated - San Luis Ranch Project - 2020 Start - San Luis Obispo County APCD Air District, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38

**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
Site Preparation	7	18.00	0.00	0.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	3,720.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	169.00	53.00	0.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	34.00	0.00	0.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Mitigated - San Luis Ranch Project - 2020 Start - San Luis Obispo County APCD Air District, Summer

Use Cleaner Engines for Construction Equipment

Use DPF for Construction Equipment

Clean Paved Roads

**3.2 Site Preparation - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.0765	42.4173	21.5136	0.0380		2.1974	2.1974		2.0216	2.0216		3,685.1016	3,685.1016	1.1918		3,714.8975
<b>Total</b>	<b>4.0765</b>	<b>42.4173</b>	<b>21.5136</b>	<b>0.0380</b>	<b>18.0663</b>	<b>2.1974</b>	<b>20.2637</b>	<b>9.9307</b>	<b>2.0216</b>	<b>11.9523</b>		<b>3,685.1016</b>	<b>3,685.1016</b>	<b>1.1918</b>		<b>3,714.8975</b>

Mitigated - San Luis Ranch Project - 2020 Start - San Luis Obispo County APCD Air District, Summer

**3.2 Site Preparation - 2020**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	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	0.0770	0.0642	0.6389	1.6700e-003	0.1780	1.1400e-003	0.1791	0.0472	1.0500e-003	0.0483		166.2997	166.2997	5.4200e-003		166.4352
<b>Total</b>	<b>0.0770</b>	<b>0.0642</b>	<b>0.6389</b>	<b>1.6700e-003</b>	<b>0.1780</b>	<b>1.1400e-003</b>	<b>0.1791</b>	<b>0.0472</b>	<b>1.0500e-003</b>	<b>0.0483</b>		<b>166.2997</b>	<b>166.2997</b>	<b>5.4200e-003</b>		<b>166.4352</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	0.9312	19.0656	22.9600	0.0380		0.4731	0.4731		0.4731	0.4731	0.0000	3,685.1016	3,685.1016	1.1918		3,714.8975
<b>Total</b>	<b>0.9312</b>	<b>19.0656</b>	<b>22.9600</b>	<b>0.0380</b>	<b>18.0663</b>	<b>0.4731</b>	<b>18.5393</b>	<b>9.9307</b>	<b>0.4731</b>	<b>10.4038</b>	<b>0.0000</b>	<b>3,685.1016</b>	<b>3,685.1016</b>	<b>1.1918</b>		<b>3,714.8975</b>

Mitigated - San Luis Ranch Project - 2020 Start - San Luis Obispo County APCD Air District, Summer

**3.2 Site Preparation - 2020**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	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	0.0770	0.0642	0.6389	1.6700e-003	0.1780	1.1400e-003	0.1791	0.0472	1.0500e-003	0.0483		166.2997	166.2997	5.4200e-003		166.4352
<b>Total</b>	<b>0.0770</b>	<b>0.0642</b>	<b>0.6389</b>	<b>1.6700e-003</b>	<b>0.1780</b>	<b>1.1400e-003</b>	<b>0.1791</b>	<b>0.0472</b>	<b>1.0500e-003</b>	<b>0.0483</b>		<b>166.2997</b>	<b>166.2997</b>	<b>5.4200e-003</b>		<b>166.4352</b>

**3.3 Grading - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.8559	0.0000	8.8559	3.6242	0.0000	3.6242			0.0000			0.0000
Off-Road	4.4501	50.1975	31.9583	0.0620		2.1739	2.1739		2.0000	2.0000		6,005.8653	6,005.8653	1.9424		6,054.4257
<b>Total</b>	<b>4.4501</b>	<b>50.1975</b>	<b>31.9583</b>	<b>0.0620</b>	<b>8.8559</b>	<b>2.1739</b>	<b>11.0298</b>	<b>3.6242</b>	<b>2.0000</b>	<b>5.6241</b>		<b>6,005.8653</b>	<b>6,005.8653</b>	<b>1.9424</b>		<b>6,054.4257</b>

Mitigated - San Luis Ranch Project - 2020 Start - San Luis Obispo County APCD Air District, Summer

**3.3 Grading - 2020**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.0639	39.1193	8.4291	0.0981	2.1637	0.1722	2.3359	0.5927	0.1647	0.7575		10,579.7302	10,579.7302	0.5871		10,594.4088
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	0.0855	0.0714	0.7099	1.8600e-003	0.1977	1.2600e-003	0.1990	0.0524	1.1700e-003	0.0536		184.7775	184.7775	6.0200e-003		184.9280
<b>Total</b>	<b>1.1495</b>	<b>39.1907</b>	<b>9.1390</b>	<b>0.1000</b>	<b>2.3614</b>	<b>0.1735</b>	<b>2.5348</b>	<b>0.6452</b>	<b>0.1659</b>	<b>0.8111</b>		<b>10,764.5076</b>	<b>10,764.5076</b>	<b>0.5932</b>		<b>10,779.3368</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.8559	0.0000	8.8559	3.6242	0.0000	3.6242			0.0000			0.0000
Off-Road	1.5231	29.9782	36.7226	0.0620		0.6497	0.6497		0.6497	0.6497	0.0000	6,005.8653	6,005.8653	1.9424		6,054.4257
<b>Total</b>	<b>1.5231</b>	<b>29.9782</b>	<b>36.7226</b>	<b>0.0620</b>	<b>8.8559</b>	<b>0.6497</b>	<b>9.5056</b>	<b>3.6242</b>	<b>0.6497</b>	<b>4.2739</b>	<b>0.0000</b>	<b>6,005.8653</b>	<b>6,005.8653</b>	<b>1.9424</b>		<b>6,054.4257</b>



Mitigated - San Luis Ranch Project - 2020 Start - San Luis Obispo County APCD Air District, Summer

**3.3 Grading - 2020**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.0639	39.1193	8.4291	0.0981	2.1637	0.1722	2.3359	0.5927	0.1647	0.7575		10,579.7302	10,579.7302	0.5871		10,594.4088
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	0.0855	0.0714	0.7099	1.8600e-003	0.1977	1.2600e-003	0.1990	0.0524	1.1700e-003	0.0536		184.7775	184.7775	6.0200e-003		184.9280
<b>Total</b>	<b>1.1495</b>	<b>39.1907</b>	<b>9.1390</b>	<b>0.1000</b>	<b>2.3614</b>	<b>0.1735</b>	<b>2.5348</b>	<b>0.6452</b>	<b>0.1659</b>	<b>0.8111</b>		<b>10,764.5076</b>	<b>10,764.5076</b>	<b>0.5932</b>		<b>10,779.3368</b>

**3.4 Building Construction - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503		2,553.0631	2,553.0631	0.6229		2,568.6345
<b>Total</b>	<b>2.1198</b>	<b>19.1860</b>	<b>16.8485</b>	<b>0.0269</b>		<b>1.1171</b>	<b>1.1171</b>		<b>1.0503</b>	<b>1.0503</b>		<b>2,553.0631</b>	<b>2,553.0631</b>	<b>0.6229</b>		<b>2,568.6345</b>

Mitigated - San Luis Ranch Project - 2020 Start - San Luis Obispo County APCD Air District, Summer

**3.4 Building Construction - 2020**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.1922	5.4698	1.5675	0.0107	0.2460	0.0297	0.2757	0.0709	0.0284	0.0993		1,138.4488	1,138.4488	0.0655			1,140.0854
Worker	0.7228	0.6030	5.9989	0.0157	1.6708	0.0107	1.6814	0.4431	9.8600e-003	0.4530		1,561.3695	1,561.3695	0.0509			1,562.6419
<b>Total</b>	<b>0.9150</b>	<b>6.0728</b>	<b>7.5664</b>	<b>0.0264</b>	<b>1.9168</b>	<b>0.0404</b>	<b>1.9572</b>	<b>0.5140</b>	<b>0.0383</b>	<b>0.5522</b>		<b>2,699.8183</b>	<b>2,699.8183</b>	<b>0.1164</b>			<b>2,702.7273</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	0.6739	14.2261	17.8738	0.0269		0.4518	0.4518		0.4518	0.4518	0.0000	2,553.0631	2,553.0631	0.6229			2,568.6345
<b>Total</b>	<b>0.6739</b>	<b>14.2261</b>	<b>17.8738</b>	<b>0.0269</b>		<b>0.4518</b>	<b>0.4518</b>		<b>0.4518</b>	<b>0.4518</b>	<b>0.0000</b>	<b>2,553.0631</b>	<b>2,553.0631</b>	<b>0.6229</b>			<b>2,568.6345</b>

Mitigated - San Luis Ranch Project - 2020 Start - San Luis Obispo County APCD Air District, Summer

**3.4 Building Construction - 2020**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.1922	5.4698	1.5675	0.0107	0.2460	0.0297	0.2757	0.0709	0.0284	0.0993		1,138.4488	1,138.4488	0.0655			1,140.0854
Worker	0.7228	0.6030	5.9989	0.0157	1.6708	0.0107	1.6814	0.4431	9.8600e-003	0.4530		1,561.3695	1,561.3695	0.0509			1,562.6419
<b>Total</b>	<b>0.9150</b>	<b>6.0728</b>	<b>7.5664</b>	<b>0.0264</b>	<b>1.9168</b>	<b>0.0404</b>	<b>1.9572</b>	<b>0.5140</b>	<b>0.0383</b>	<b>0.5522</b>		<b>2,699.8183</b>	<b>2,699.8183</b>	<b>0.1164</b>			<b>2,702.7273</b>

**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										lb/day						
Off-Road	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013		2,553.3639	2,553.3639	0.6160			2,568.7643
<b>Total</b>	<b>1.9009</b>	<b>17.4321</b>	<b>16.5752</b>	<b>0.0269</b>		<b>0.9586</b>	<b>0.9586</b>		<b>0.9013</b>	<b>0.9013</b>		<b>2,553.3639</b>	<b>2,553.3639</b>	<b>0.6160</b>			<b>2,568.7643</b>

Mitigated - San Luis Ranch Project - 2020 Start - San Luis Obispo County APCD Air District, Summer

**3.4 Building Construction - 2021**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.1571	5.0096	1.3823	0.0106	0.2461	0.0141	0.2601	0.0709	0.0134	0.0843		1,131.8490	1,131.8490	0.0638			1,133.4434
Worker	0.6732	0.5393	5.4477	0.0151	1.6708	0.0104	1.6811	0.4431	9.5400e-003	0.4527		1,508.1598	1,508.1598	0.0453			1,509.2921
<b>Total</b>	<b>0.8303</b>	<b>5.5489</b>	<b>6.8300</b>	<b>0.0258</b>	<b>1.9168</b>	<b>0.0244</b>	<b>1.9412</b>	<b>0.5140</b>	<b>0.0230</b>	<b>0.5370</b>		<b>2,640.0088</b>	<b>2,640.0088</b>	<b>0.1091</b>			<b>2,642.7354</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	0.6739	14.2261	17.8738	0.0269		0.4518	0.4518		0.4518	0.4518	0.0000	2,553.3639	2,553.3639	0.6160			2,568.7643
<b>Total</b>	<b>0.6739</b>	<b>14.2261</b>	<b>17.8738</b>	<b>0.0269</b>		<b>0.4518</b>	<b>0.4518</b>		<b>0.4518</b>	<b>0.4518</b>	<b>0.0000</b>	<b>2,553.3639</b>	<b>2,553.3639</b>	<b>0.6160</b>			<b>2,568.7643</b>

Mitigated - San Luis Ranch Project - 2020 Start - San Luis Obispo County APCD Air District, Summer

**3.4 Building Construction - 2021**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.1571	5.0096	1.3823	0.0106	0.2461	0.0141	0.2601	0.0709	0.0134	0.0843		1,131.8490	1,131.8490	0.0638			1,133.4434
Worker	0.6732	0.5393	5.4477	0.0151	1.6708	0.0104	1.6811	0.4431	9.5400e-003	0.4527		1,508.1598	1,508.1598	0.0453			1,509.2921
<b>Total</b>	<b>0.8303</b>	<b>5.5489</b>	<b>6.8300</b>	<b>0.0258</b>	<b>1.9168</b>	<b>0.0244</b>	<b>1.9412</b>	<b>0.5140</b>	<b>0.0230</b>	<b>0.5370</b>		<b>2,640.0088</b>	<b>2,640.0088</b>	<b>0.1091</b>			<b>2,642.7354</b>

**3.5 Architectural Coating - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Archit. Coating	8.7385					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Off-Road	0.2422	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109		281.4481	281.4481	0.0218			281.9928
<b>Total</b>	<b>8.9807</b>	<b>1.6838</b>	<b>1.8314</b>	<b>2.9700e-003</b>		<b>0.1109</b>	<b>0.1109</b>		<b>0.1109</b>	<b>0.1109</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0218</b>			<b>281.9928</b>

Mitigated - San Luis Ranch Project - 2020 Start - San Luis Obispo County APCD Air District, Summer

**3.5 Architectural Coating - 2020**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	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	0.1454	0.1213	1.2069	3.1500e-003	0.3361	2.1500e-003	0.3383	0.0892	1.9800e-003	0.0911		314.1217	314.1217	0.0102		314.3777
<b>Total</b>	<b>0.1454</b>	<b>0.1213</b>	<b>1.2069</b>	<b>3.1500e-003</b>	<b>0.3361</b>	<b>2.1500e-003</b>	<b>0.3383</b>	<b>0.0892</b>	<b>1.9800e-003</b>	<b>0.0911</b>		<b>314.1217</b>	<b>314.1217</b>	<b>0.0102</b>		<b>314.3777</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	8.7385					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0594	1.3570	1.8324	2.9700e-003		0.0475	0.0475		0.0475	0.0475	0.0000	281.4481	281.4481	0.0218		281.9928
<b>Total</b>	<b>8.7979</b>	<b>1.3570</b>	<b>1.8324</b>	<b>2.9700e-003</b>		<b>0.0475</b>	<b>0.0475</b>		<b>0.0475</b>	<b>0.0475</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0218</b>		<b>281.9928</b>

Mitigated - San Luis Ranch Project - 2020 Start - San Luis Obispo County APCD Air District, Summer

**3.5 Architectural Coating - 2020**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	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	0.1454	0.1213	1.2069	3.1500e-003	0.3361	2.1500e-003	0.3383	0.0892	1.9800e-003	0.0911		314.1217	314.1217	0.0102		314.3777
<b>Total</b>	<b>0.1454</b>	<b>0.1213</b>	<b>1.2069</b>	<b>3.1500e-003</b>	<b>0.3361</b>	<b>2.1500e-003</b>	<b>0.3383</b>	<b>0.0892</b>	<b>1.9800e-003</b>	<b>0.0911</b>		<b>314.1217</b>	<b>314.1217</b>	<b>0.0102</b>		<b>314.3777</b>

**3.5 Architectural Coating - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	8.7385					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309
<b>Total</b>	<b>8.9574</b>	<b>1.5268</b>	<b>1.8176</b>	<b>2.9700e-003</b>		<b>0.0941</b>	<b>0.0941</b>		<b>0.0941</b>	<b>0.0941</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0193</b>		<b>281.9309</b>

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**3.5 Architectural Coating - 2021**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1354	0.1085	1.0960	3.0500e-003	0.3361	2.0800e-003	0.3382	0.0892	1.9200e-003	0.0911		303.4168	303.4168	9.1100e-003		303.6446
<b>Total</b>	<b>0.1354</b>	<b>0.1085</b>	<b>1.0960</b>	<b>3.0500e-003</b>	<b>0.3361</b>	<b>2.0800e-003</b>	<b>0.3382</b>	<b>0.0892</b>	<b>1.9200e-003</b>	<b>0.0911</b>		<b>303.4168</b>	<b>303.4168</b>	<b>9.1100e-003</b>		<b>303.6446</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	8.7385					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0594	1.3570	1.8324	2.9700e-003		0.0475	0.0475		0.0475	0.0475	0.0000	281.4481	281.4481	0.0193		281.9309
<b>Total</b>	<b>8.7979</b>	<b>1.3570</b>	<b>1.8324</b>	<b>2.9700e-003</b>		<b>0.0475</b>	<b>0.0475</b>		<b>0.0475</b>	<b>0.0475</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0193</b>		<b>281.9309</b>



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**3.5 Architectural Coating - 2021**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1354	0.1085	1.0960	3.0500e-003	0.3361	2.0800e-003	0.3382	0.0892	1.9200e-003	0.0911		303.4168	303.4168	9.1100e-003		303.6446
<b>Total</b>	<b>0.1354</b>	<b>0.1085</b>	<b>1.0960</b>	<b>3.0500e-003</b>	<b>0.3361</b>	<b>2.0800e-003</b>	<b>0.3382</b>	<b>0.0892</b>	<b>1.9200e-003</b>	<b>0.0911</b>		<b>303.4168</b>	<b>303.4168</b>	<b>9.1100e-003</b>		<b>303.6446</b>

**3.6 Paving - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235		2,207.2109	2,207.2109	0.7139		2,225.0573
Paving	0.3144					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.5700</b>	<b>12.9191</b>	<b>14.6532</b>	<b>0.0228</b>		<b>0.6777</b>	<b>0.6777</b>		<b>0.6235</b>	<b>0.6235</b>		<b>2,207.2109</b>	<b>2,207.2109</b>	<b>0.7139</b>		<b>2,225.0573</b>

Mitigated - San Luis Ranch Project - 2020 Start - San Luis Obispo County APCD Air District, Summer

**3.6 Paving - 2021**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0598	0.0479	0.4835	1.3400e-003	0.1483	9.2000e-004	0.1492	0.0393	8.5000e-004	0.0402		133.8603	133.8603	4.0200e-003		133.9608
<b>Total</b>	<b>0.0598</b>	<b>0.0479</b>	<b>0.4835</b>	<b>1.3400e-003</b>	<b>0.1483</b>	<b>9.2000e-004</b>	<b>0.1492</b>	<b>0.0393</b>	<b>8.5000e-004</b>	<b>0.0402</b>		<b>133.8603</b>	<b>133.8603</b>	<b>4.0200e-003</b>		<b>133.9608</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5609	11.2952	17.2957	0.0228		0.3047	0.3047		0.3047	0.3047	0.0000	2,207.2109	2,207.2109	0.7139		2,225.0573
Paving	0.3144					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.8753</b>	<b>11.2952</b>	<b>17.2957</b>	<b>0.0228</b>		<b>0.3047</b>	<b>0.3047</b>		<b>0.3047</b>	<b>0.3047</b>	<b>0.0000</b>	<b>2,207.2109</b>	<b>2,207.2109</b>	<b>0.7139</b>		<b>2,225.0573</b>

Mitigated - San Luis Ranch Project - 2020 Start - San Luis Obispo County APCD Air District, Summer

**3.6 Paving - 2021**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0598	0.0479	0.4835	1.3400e-003	0.1483	9.2000e-004	0.1492	0.0393	8.5000e-004	0.0402		133.8603	133.8603	4.0200e-003		133.9608
<b>Total</b>	<b>0.0598</b>	<b>0.0479</b>	<b>0.4835</b>	<b>1.3400e-003</b>	<b>0.1483</b>	<b>9.2000e-004</b>	<b>0.1492</b>	<b>0.0393</b>	<b>8.5000e-004</b>	<b>0.0402</b>		<b>133.8603</b>	<b>133.8603</b>	<b>4.0200e-003</b>		<b>133.9608</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

Mitigated - San Luis Ranch Project - 2020 Start - San Luis Obispo County APCD Air District, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.8744	7.0819	19.1218	0.0566	5.1194	0.0566	5.1760	1.3676	0.0531	1.4207		5,707.6178	5,707.6178	0.2233		5,713.2001
Unmitigated	1.8744	7.0819	19.1218	0.0566	5.1194	0.0566	5.1760	1.3676	0.0531	1.4207		5,707.6178	5,707.6178	0.2233		5,713.2001

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	422.47	439.07	382.63	1,065,294	1,065,294
City Park	119.99	61.43	45.20	205,134	205,134
General Office Building	300.00	67.00	28.50	518,513	518,513
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Regional Shopping Center	221.75	259.50	131.00	309,253	309,253
Total	1,064.21	827.00	587.33	2,098,193	2,098,193

4.3 Trip Type Information

Mitigated - San Luis Ranch Project - 2020 Start - San Luis Obispo County APCD Air District, Summer

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
Apartments Mid Rise	13.00	5.00	5.00	35.80	21.00	43.20	86	11	3
City Park	13.00	5.00	5.00	33.00	48.00	19.00	66	28	6
General Office Building	13.00	5.00	5.00	33.00	48.00	19.00	77	19	4
Parking Lot	13.00	5.00	5.00	0.00	0.00	0.00	0	0	0
Parking Lot	13.00	5.00	5.00	0.00	0.00	0.00	0	0	0
Regional Shopping Center	13.00	5.00	5.00	16.30	64.70	19.00	54	35	11

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	0.575581	0.029595	0.198288	0.120539	0.026172	0.006482	0.012911	0.019591	0.002354	0.001214	0.005068	0.000784	0.001422
Parking Lot	0.575581	0.029595	0.198288	0.120539	0.026172	0.006482	0.012911	0.019591	0.002354	0.001214	0.005068	0.000784	0.001422
Parking Lot	0.575581	0.029595	0.198288	0.120539	0.026172	0.006482	0.012911	0.019591	0.002354	0.001214	0.005068	0.000784	0.001422
City Park	0.575581	0.029595	0.198288	0.120539	0.026172	0.006482	0.012911	0.019591	0.002354	0.001214	0.005068	0.000784	0.001422
Apartments Mid Rise	0.575581	0.029595	0.198288	0.120539	0.026172	0.006482	0.012911	0.019591	0.002354	0.001214	0.005068	0.000784	0.001422
Regional Shopping Center	0.575581	0.029595	0.198288	0.120539	0.026172	0.006482	0.012911	0.019591	0.002354	0.001214	0.005068	0.000784	0.001422

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

Exceed Title 24

Install Energy Efficient Appliances

Mitigated - San Luis Ranch Project - 2020 Start - San Luis Obispo County APCD Air District, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0344	0.3000	0.1696	1.8800e-003		0.0238	0.0238		0.0238	0.0238		375.2649	375.2649	7.1900e-003	6.8800e-003	377.4949
NaturalGas Unmitigated	0.0411	0.3584	0.2049	2.2400e-003		0.0284	0.0284		0.0284	0.0284		447.8591	447.8591	8.5800e-003	8.2100e-003	450.5205

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					
Apartments Mid Rise	2517.08	0.0271	0.2320	0.0987	1.4800e-003		0.0188	0.0188		0.0188	0.0188		296.1266	296.1266	5.6800e-003	5.4300e-003	297.8863
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
General Office Building	1126.71	0.0122	0.1105	0.0928	6.6000e-004		8.4000e-003	8.4000e-003		8.4000e-003	8.4000e-003		132.5544	132.5544	2.5400e-003	2.4300e-003	133.3421
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	163.014	1.7600e-003	0.0160	0.0134	1.0000e-004		1.2100e-003	1.2100e-003		1.2100e-003	1.2100e-003		19.1781	19.1781	3.7000e-004	3.5000e-004	19.2921
<b>Total</b>		<b>0.0411</b>	<b>0.3584</b>	<b>0.2049</b>	<b>2.2400e-003</b>		<b>0.0284</b>	<b>0.0284</b>		<b>0.0284</b>	<b>0.0284</b>		<b>447.8591</b>	<b>447.8591</b>	<b>8.5900e-003</b>	<b>8.2100e-003</b>	<b>450.5205</b>

Mitigated - San Luis Ranch Project - 2020 Start - San Luis Obispo County APCD Air District, Summer

**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					
Apartments Mid Rise	2.15715	0.0233	0.1988	0.0846	1.2700e-003		0.0161	0.0161		0.0161	0.0161		253.7822	253.7822	4.8600e-003	4.6500e-003	255.2903
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
General Office Building	0.902192	9.7300e-003	0.0885	0.0743	5.3000e-004		6.7200e-003	6.7200e-003		6.7200e-003	6.7200e-003		106.1402	106.1402	2.0300e-003	1.9500e-003	106.7710
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	0.130411	1.4100e-003	0.0128	0.0107	8.0000e-005		9.7000e-004	9.7000e-004		9.7000e-004	9.7000e-004		15.3425	15.3425	2.9000e-004	2.8000e-004	15.4336
<b>Total</b>		<b>0.0344</b>	<b>0.3000</b>	<b>0.1696</b>	<b>1.8800e-003</b>		<b>0.0238</b>	<b>0.0238</b>		<b>0.0238</b>	<b>0.0238</b>		<b>375.2649</b>	<b>375.2649</b>	<b>7.1800e-003</b>	<b>6.8800e-003</b>	<b>377.4949</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

Use only Natural Gas Hearths

No Hearths Installed

Mitigated - San Luis Ranch Project - 2020 Start - San Luis Obispo County APCD Air District, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	7.3953	0.0791	6.8606	3.6000e-004		0.0379	0.0379		0.0379	0.0379	0.0000	12.3419	12.3419	0.0119	0.0000	12.6401
Unmitigated	7.3953	0.0791	6.8606	3.6000e-004		0.0379	0.0379		0.0379	0.0379	0.0000	12.3419	12.3419	0.0119	0.0000	12.6401

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	1.7876					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	5.4001					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.2076	0.0791	6.8606	3.6000e-004		0.0379	0.0379		0.0379	0.0379		12.3419	12.3419	0.0119		12.6401
<b>Total</b>	<b>7.3953</b>	<b>0.0791</b>	<b>6.8606</b>	<b>3.6000e-004</b>		<b>0.0379</b>	<b>0.0379</b>		<b>0.0379</b>	<b>0.0379</b>	<b>0.0000</b>	<b>12.3419</b>	<b>12.3419</b>	<b>0.0119</b>	<b>0.0000</b>	<b>12.6401</b>



Mitigated - San Luis Ranch Project - 2020 Start - San Luis Obispo County APCD Air District, Summer

**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	1.7876					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	5.4001					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.2076	0.0791	6.8606	3.6000e-004		0.0379	0.0379		0.0379	0.0379		12.3419	12.3419	0.0119		12.6401
<b>Total</b>	<b>7.3953</b>	<b>0.0791</b>	<b>6.8606</b>	<b>3.6000e-004</b>		<b>0.0379</b>	<b>0.0379</b>		<b>0.0379</b>	<b>0.0379</b>	<b>0.0000</b>	<b>12.3419</b>	<b>12.3419</b>	<b>0.0119</b>	<b>0.0000</b>	<b>12.6401</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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

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Mitigated - San Luis Ranch Project - 2020 Start - San Luis Obispo County APCD Air District, Summer

**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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**11.0 Vegetation**

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Mitigated - San Luis Ranch Project - 2020 Start - San Luis Obispo County APCD Air District, Winter

**Mitigated - San Luis Ranch Project - 2020 Start**  
**San Luis Obispo County APCD Air District, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	25.00	1000sqft	1.30	25,000.00	0
Parking Lot	0.60	Acre	0.60	26,136.00	0
Parking Lot	1.80	Acre	1.80	78,408.00	0
City Park	2.70	Acre	2.70	117,612.00	0
Apartments Mid Rise	83.00	Dwelling Unit	4.00	83,000.00	237
Regional Shopping Center	25.00	1000sqft	0.57	25,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	3.2	<b>Precipitation Freq (Days)</b>	44
<b>Climate Zone</b>	4			<b>Operational Year</b>	2022
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MW hr)</b>	641.35	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

**1.3 User Entered Comments & Non-Default Data**

Mitigated - San Luis Ranch Project - 2020 Start - San Luis Obispo County APCD Air District, Winter

Project Characteristics -

Land Use - Land use values from buildout and phasing in Specific Plan Section 7.7. Includes portions of Phases 3, 5, and 6. Ag SF from Sect 3.9 of Specific Plan.

Construction Phase - No demolition. AC expected to overlap with half of building construction as painting would occur as buildings are finished.

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Demolition -

Grading - Total import proportionally distributed by phase acreage.

Architectural Coating - Per MM AQ-2

Vehicle Trips - Trip generation rate based on Omni-Means 2016 Traffic Impact Study.

Woodstoves - Per MM AQ-3

Construction Off-road Equipment Mitigation - Per MM AQ-2

Mobile Land Use Mitigation - Trip reductions from project's density, diversity, and access to alternative transportation accounted for in trip generation rates.

Area Mitigation - Per MM AQ-3

Energy Mitigation - Per Specific Plan, appliances will be energy efficient. Per MM AQ-3

Water Mitigation -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	50.00
tblArchitecturalCoating	EF_Parking	150.00	50.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	50.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	50.00
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	0
tblConstEquipMitigation	DPF	No Change	Level 2
tblConstEquipMitigation	DPF	No Change	Level 2
tblConstEquipMitigation	DPF	No Change	Level 2

Mitigated - San Luis Ranch Project - 2020 Start - San Luis Obispo County APCD Air District, Winter

tblConstEquipMitigation	DPF	No Change	Level 2
tblConstEquipMitigation	DPF	No Change	Level 2
tblConstEquipMitigation	DPF	No Change	Level 2
tblConstEquipMitigation	DPF	No Change	Level 2
tblConstEquipMitigation	DPF	No Change	Level 2
tblConstEquipMitigation	DPF	No Change	Level 2
tblConstEquipMitigation	DPF	No Change	Level 2
tblConstEquipMitigation	DPF	No Change	Level 2
tblConstEquipMitigation	DPF	No Change	Level 2
tblConstEquipMitigation	DPF	No Change	Level 2
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3

## Mitigated - San Luis Ranch Project - 2020 Start - San Luis Obispo County APCD Air District, Winter

tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	20.00	150.00
tblGrading	MaterialImported	0.00	29,760.00
tblLandUse	BuildingSpaceSquareFeet	0.00	117,612.00
tblLandUse	GreenSpaceSquareFeet	117,612.00	0.00
tblLandUse	LotAcreage	0.57	1.30
tblLandUse	LotAcreage	2.18	4.00
tblProjectCharacteristics	OperationalYear	2018	2022
tblVehicleTrips	ST_TR	6.39	5.29
tblVehicleTrips	ST_TR	2.46	2.68
tblVehicleTrips	ST_TR	49.97	10.38
tblVehicleTrips	SU_TR	5.86	4.61
tblVehicleTrips	SU_TR	1.05	1.14
tblVehicleTrips	SU_TR	25.24	5.24
tblVehicleTrips	WD_TR	6.65	5.09
tblVehicleTrips	WD_TR	1.89	44.44
tblVehicleTrips	WD_TR	11.03	12.00
tblVehicleTrips	WD_TR	42.70	8.87
tblWoodstoves	WoodstoveDayYear	60.00	0.00

Mitigated - San Luis Ranch Project - 2020 Start - San Luis Obispo County APCD Air District, Winter

tblWoodstoves	WoodstoveWoodMass	2,016.00	0.00
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## 2.0 Emissions Summary

### 2.1 Overall Construction (Maximum Daily Emission)

#### Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	12.2935	89.6709	41.6029	0.1605	18.2442	2.3512	20.4428	9.9779	2.1696	12.0006	0.0000	16,606.3251	16,606.3251	2.5542	0.0000	16,670.1797
2021	11.9492	24.6708	26.3071	0.0575	2.2530	1.0800	3.3330	0.6031	1.0211	1.6242	0.0000	5,658.6770	5,658.6770	0.7561	0.0000	5,677.5796
<b>Maximum</b>	<b>12.2935</b>	<b>89.6709</b>	<b>41.6029</b>	<b>0.1605</b>	<b>18.2442</b>	<b>2.3512</b>	<b>20.4428</b>	<b>9.9779</b>	<b>2.1696</b>	<b>12.0006</b>	<b>0.0000</b>	<b>16,606.3251</b>	<b>16,606.3251</b>	<b>2.5542</b>	<b>0.0000</b>	<b>16,670.1797</b>

#### Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	10.6648	69.4515	46.3673	0.1605	18.2442	0.8270	18.7184	9.9779	0.8193	10.4520	0.0000	16,606.3251	16,606.3251	2.5542	0.0000	16,670.1797
2021	10.5627	21.2949	27.6205	0.0575	2.2530	0.5266	2.7796	0.6031	0.5250	1.1282	0.0000	5,658.6770	5,658.6770	0.7561	0.0000	5,677.5796
<b>Maximum</b>	<b>10.6648</b>	<b>69.4515</b>	<b>46.3673</b>	<b>0.1605</b>	<b>18.2442</b>	<b>0.8270</b>	<b>18.7184</b>	<b>9.9779</b>	<b>0.8193</b>	<b>10.4520</b>	<b>0.0000</b>	<b>16,606.3251</b>	<b>16,606.3251</b>	<b>2.5542</b>	<b>0.0000</b>	<b>16,670.1797</b>

## Mitigated - San Luis Ranch Project - 2020 Start - San Luis Obispo County APCD Air District, Winter

	ROG	NOx	CO	SO2	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	12.44	20.64	-8.95	0.00	0.00	60.55	9.58	0.00	57.87	15.01	0.00	0.00	0.00	0.00	0.00	0.00



Mitigated - San Luis Ranch Project - 2020 Start - San Luis Obispo County APCD Air District, Winter

**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	7.3953	0.0791	6.8606	3.6000e-004		0.0379	0.0379		0.0379	0.0379	0.0000	12.3419	12.3419	0.0119	0.0000	12.6401
Energy	0.0411	0.3584	0.2049	2.2400e-003		0.0284	0.0284		0.0284	0.0284		447.8591	447.8591	8.5800e-003	8.2100e-003	450.5205
Mobile	1.8112	7.3238	19.6773	0.0543	5.1194	0.0572	5.1766	1.3676	0.0537	1.4213		5,481.0705	5,481.0705	0.2273		5,486.7521
<b>Total</b>	<b>9.2475</b>	<b>7.7613</b>	<b>26.7429</b>	<b>0.0569</b>	<b>5.1194</b>	<b>0.1235</b>	<b>5.2429</b>	<b>1.3676</b>	<b>0.1200</b>	<b>1.4876</b>	<b>0.0000</b>	<b>5,941.2715</b>	<b>5,941.2715</b>	<b>0.2478</b>	<b>8.2100e-003</b>	<b>5,949.9127</b>

**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	7.3953	0.0791	6.8606	3.6000e-004		0.0379	0.0379		0.0379	0.0379	0.0000	12.3419	12.3419	0.0119	0.0000	12.6401
Energy	0.0344	0.3000	0.1696	1.8800e-003		0.0238	0.0238		0.0238	0.0238		375.2649	375.2649	7.1900e-003	6.8800e-003	377.4949
Mobile	1.8112	7.3238	19.6773	0.0543	5.1194	0.0572	5.1766	1.3676	0.0537	1.4213		5,481.0705	5,481.0705	0.2273		5,486.7521
<b>Total</b>	<b>9.2409</b>	<b>7.7029</b>	<b>26.7076</b>	<b>0.0566</b>	<b>5.1194</b>	<b>0.1189</b>	<b>5.2383</b>	<b>1.3676</b>	<b>0.1154</b>	<b>1.4830</b>	<b>0.0000</b>	<b>5,868.6773</b>	<b>5,868.6773</b>	<b>0.2464</b>	<b>6.8800e-003</b>	<b>5,876.8871</b>

## Mitigated - San Luis Ranch Project - 2020 Start - San Luis Obispo County APCD Air District, Winter

	ROG	NOx	CO	SO2	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	0.07	0.75	0.13	0.63	0.00	3.72	0.09	0.00	3.83	0.31	0.00	1.22	1.22	0.56	16.20	1.23

### 3.0 Construction Detail

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#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/1/2020	1/14/2020	5	10	
2	Grading	Grading	1/15/2020	2/25/2020	5	30	
3	Building Construction	Building Construction	2/26/2020	4/20/2021	5	300	
4	Architectural Coating	Architectural Coating	10/21/2020	5/18/2021	5	150	
5	Paving	Paving	4/21/2021	5/18/2021	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 75

Acres of Paving: 2.4

Residential Indoor: 168,075; Residential Outdoor: 56,025; Non-Residential Indoor: 251,418; Non-Residential Outdoor: 83,806; Striped Parking Area: 6,273 (Architectural Coating – sqft)

#### OffRoad Equipment

Mitigated - San Luis Ranch Project - 2020 Start - San Luis Obispo County APCD Air District, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38

**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
Site Preparation	7	18.00	0.00	0.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	3,720.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	169.00	53.00	0.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	34.00	0.00	0.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Mitigated - San Luis Ranch Project - 2020 Start - San Luis Obispo County APCD Air District, Winter

Use Cleaner Engines for Construction Equipment

Use DPF for Construction Equipment

Clean Paved Roads

**3.2 Site Preparation - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.0765	42.4173	21.5136	0.0380		2.1974	2.1974		2.0216	2.0216		3,685.1016	3,685.1016	1.1918		3,714.8975
<b>Total</b>	<b>4.0765</b>	<b>42.4173</b>	<b>21.5136</b>	<b>0.0380</b>	<b>18.0663</b>	<b>2.1974</b>	<b>20.2637</b>	<b>9.9307</b>	<b>2.0216</b>	<b>11.9523</b>		<b>3,685.1016</b>	<b>3,685.1016</b>	<b>1.1918</b>		<b>3,714.8975</b>

Mitigated - San Luis Ranch Project - 2020 Start - San Luis Obispo County APCD Air District, Winter

**3.2 Site Preparation - 2020**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	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	0.0878	0.0729	0.6216	1.5900e-003	0.1780	1.1400e-003	0.1791	0.0472	1.0500e-003	0.0483		158.5129	158.5129	5.2400e-003		158.6439
<b>Total</b>	<b>0.0878</b>	<b>0.0729</b>	<b>0.6216</b>	<b>1.5900e-003</b>	<b>0.1780</b>	<b>1.1400e-003</b>	<b>0.1791</b>	<b>0.0472</b>	<b>1.0500e-003</b>	<b>0.0483</b>		<b>158.5129</b>	<b>158.5129</b>	<b>5.2400e-003</b>		<b>158.6439</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	0.9312	19.0656	22.9600	0.0380		0.4731	0.4731		0.4731	0.4731	0.0000	3,685.1016	3,685.1016	1.1918		3,714.8975
<b>Total</b>	<b>0.9312</b>	<b>19.0656</b>	<b>22.9600</b>	<b>0.0380</b>	<b>18.0663</b>	<b>0.4731</b>	<b>18.5393</b>	<b>9.9307</b>	<b>0.4731</b>	<b>10.4038</b>	<b>0.0000</b>	<b>3,685.1016</b>	<b>3,685.1016</b>	<b>1.1918</b>		<b>3,714.8975</b>

Mitigated - San Luis Ranch Project - 2020 Start - San Luis Obispo County APCD Air District, Winter

**3.2 Site Preparation - 2020**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	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	0.0878	0.0729	0.6216	1.5900e-003	0.1780	1.1400e-003	0.1791	0.0472	1.0500e-003	0.0483		158.5129	158.5129	5.2400e-003		158.6439
<b>Total</b>	<b>0.0878</b>	<b>0.0729</b>	<b>0.6216</b>	<b>1.5900e-003</b>	<b>0.1780</b>	<b>1.1400e-003</b>	<b>0.1791</b>	<b>0.0472</b>	<b>1.0500e-003</b>	<b>0.0483</b>		<b>158.5129</b>	<b>158.5129</b>	<b>5.2400e-003</b>		<b>158.6439</b>

**3.3 Grading - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.8559	0.0000	8.8559	3.6242	0.0000	3.6242			0.0000			0.0000
Off-Road	4.4501	50.1975	31.9583	0.0620		2.1739	2.1739		2.0000	2.0000		6,005.8653	6,005.8653	1.9424		6,054.4257
<b>Total</b>	<b>4.4501</b>	<b>50.1975</b>	<b>31.9583</b>	<b>0.0620</b>	<b>8.8559</b>	<b>2.1739</b>	<b>11.0298</b>	<b>3.6242</b>	<b>2.0000</b>	<b>5.6241</b>		<b>6,005.8653</b>	<b>6,005.8653</b>	<b>1.9424</b>		<b>6,054.4257</b>

Mitigated - San Luis Ranch Project - 2020 Start - San Luis Obispo County APCD Air District, Winter

**3.3 Grading - 2020**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.0932	39.3924	8.9540	0.0967	2.1637	0.1760	2.3397	0.5927	0.1684	0.7611		10,424.3344	10,424.3344	0.6059		10,439.4830
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	0.0975	0.0810	0.6907	1.7700e-003	0.1977	1.2600e-003	0.1990	0.0524	1.1700e-003	0.0536		176.1254	176.1254	5.8200e-003		176.2710
<b>Total</b>	<b>1.1907</b>	<b>39.4733</b>	<b>9.6447</b>	<b>0.0985</b>	<b>2.3614</b>	<b>0.1773</b>	<b>2.5387</b>	<b>0.6452</b>	<b>0.1696</b>	<b>0.8147</b>		<b>10,600.4599</b>	<b>10,600.4599</b>	<b>0.6118</b>		<b>10,615.7540</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.8559	0.0000	8.8559	3.6242	0.0000	3.6242			0.0000			0.0000
Off-Road	1.5231	29.9782	36.7226	0.0620		0.6497	0.6497		0.6497	0.6497	0.0000	6,005.8653	6,005.8653	1.9424		6,054.4257
<b>Total</b>	<b>1.5231</b>	<b>29.9782</b>	<b>36.7226</b>	<b>0.0620</b>	<b>8.8559</b>	<b>0.6497</b>	<b>9.5056</b>	<b>3.6242</b>	<b>0.6497</b>	<b>4.2739</b>	<b>0.0000</b>	<b>6,005.8653</b>	<b>6,005.8653</b>	<b>1.9424</b>		<b>6,054.4257</b>

Mitigated - San Luis Ranch Project - 2020 Start - San Luis Obispo County APCD Air District, Winter

**3.3 Grading - 2020**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.0932	39.3924	8.9540	0.0967	2.1637	0.1760	2.3397	0.5927	0.1684	0.7611		10,424.3344	10,424.3344	0.6059		10,439.4830
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	0.0975	0.0810	0.6907	1.7700e-003	0.1977	1.2600e-003	0.1990	0.0524	1.1700e-003	0.0536		176.1254	176.1254	5.8200e-003		176.2710
<b>Total</b>	<b>1.1907</b>	<b>39.4733</b>	<b>9.6447</b>	<b>0.0985</b>	<b>2.3614</b>	<b>0.1773</b>	<b>2.5387</b>	<b>0.6452</b>	<b>0.1696</b>	<b>0.8147</b>		<b>10,600.4599</b>	<b>10,600.4599</b>	<b>0.6118</b>		<b>10,615.7540</b>

**3.4 Building Construction - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503		2,553.0631	2,553.0631	0.6229		2,568.6345
<b>Total</b>	<b>2.1198</b>	<b>19.1860</b>	<b>16.8485</b>	<b>0.0269</b>		<b>1.1171</b>	<b>1.1171</b>		<b>1.0503</b>	<b>1.0503</b>		<b>2,553.0631</b>	<b>2,553.0631</b>	<b>0.6229</b>		<b>2,568.6345</b>



Mitigated - San Luis Ranch Project - 2020 Start - San Luis Obispo County APCD Air District, Winter

**3.4 Building Construction - 2020**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2033	5.4426	1.7650	0.0104	0.2460	0.0306	0.2766	0.0709	0.0293	0.1002		1,104.0464	1,104.0464	0.0700		1,105.7963
Worker	0.8240	0.6844	5.8363	0.0150	1.6708	0.0107	1.6814	0.4431	9.8600e-003	0.4530		1,488.2599	1,488.2599	0.0492		1,489.4902
<b>Total</b>	<b>1.0272</b>	<b>6.1270</b>	<b>7.6013</b>	<b>0.0253</b>	<b>1.9168</b>	<b>0.0413</b>	<b>1.9581</b>	<b>0.5140</b>	<b>0.0392</b>	<b>0.5531</b>		<b>2,592.3063</b>	<b>2,592.3063</b>	<b>0.1192</b>		<b>2,595.2865</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6739	14.2261	17.8738	0.0269		0.4518	0.4518		0.4518	0.4518	0.0000	2,553.0631	2,553.0631	0.6229		2,568.6345
<b>Total</b>	<b>0.6739</b>	<b>14.2261</b>	<b>17.8738</b>	<b>0.0269</b>		<b>0.4518</b>	<b>0.4518</b>		<b>0.4518</b>	<b>0.4518</b>	<b>0.0000</b>	<b>2,553.0631</b>	<b>2,553.0631</b>	<b>0.6229</b>		<b>2,568.6345</b>

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**3.4 Building Construction - 2020**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2033	5.4426	1.7650	0.0104	0.2460	0.0306	0.2766	0.0709	0.0293	0.1002		1,104.0464	1,104.0464	0.0700		1,105.7963
Worker	0.8240	0.6844	5.8363	0.0150	1.6708	0.0107	1.6814	0.4431	9.8600e-003	0.4530		1,488.2599	1,488.2599	0.0492		1,489.4902
<b>Total</b>	<b>1.0272</b>	<b>6.1270</b>	<b>7.6013</b>	<b>0.0253</b>	<b>1.9168</b>	<b>0.0413</b>	<b>1.9581</b>	<b>0.5140</b>	<b>0.0392</b>	<b>0.5531</b>		<b>2,592.3063</b>	<b>2,592.3063</b>	<b>0.1192</b>		<b>2,595.2865</b>

**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										lb/day					
Off-Road	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013		2,553.3639	2,553.3639	0.6160		2,568.7643
<b>Total</b>	<b>1.9009</b>	<b>17.4321</b>	<b>16.5752</b>	<b>0.0269</b>		<b>0.9586</b>	<b>0.9586</b>		<b>0.9013</b>	<b>0.9013</b>		<b>2,553.3639</b>	<b>2,553.3639</b>	<b>0.6160</b>		<b>2,568.7643</b>

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**3.4 Building Construction - 2021**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1673	4.9769	1.5652	0.0103	0.2461	0.0149	0.2610	0.0709	0.0142	0.0851		1,097.1189	1,097.1189	0.0683		1,098.8262
Worker	0.7689	0.6119	5.2858	0.0144	1.6708	0.0104	1.6811	0.4431	9.5400e-003	0.4527		1,437.5375	1,437.5375	0.0437		1,438.6297
<b>Total</b>	<b>0.9362</b>	<b>5.5888</b>	<b>6.8509</b>	<b>0.0247</b>	<b>1.9168</b>	<b>0.0252</b>	<b>1.9421</b>	<b>0.5140</b>	<b>0.0238</b>	<b>0.5378</b>		<b>2,534.6563</b>	<b>2,534.6563</b>	<b>0.1120</b>		<b>2,537.4559</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6739	14.2261	17.8738	0.0269		0.4518	0.4518		0.4518	0.4518	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643
<b>Total</b>	<b>0.6739</b>	<b>14.2261</b>	<b>17.8738</b>	<b>0.0269</b>		<b>0.4518</b>	<b>0.4518</b>		<b>0.4518</b>	<b>0.4518</b>	<b>0.0000</b>	<b>2,553.3639</b>	<b>2,553.3639</b>	<b>0.6160</b>		<b>2,568.7643</b>

Mitigated - San Luis Ranch Project - 2020 Start - San Luis Obispo County APCD Air District, Winter

**3.4 Building Construction - 2021**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1673	4.9769	1.5652	0.0103	0.2461	0.0149	0.2610	0.0709	0.0142	0.0851		1,097.1189	1,097.1189	0.0683		1,098.8262
Worker	0.7689	0.6119	5.2858	0.0144	1.6708	0.0104	1.6811	0.4431	9.5400e-003	0.4527		1,437.5375	1,437.5375	0.0437		1,438.6297
<b>Total</b>	<b>0.9362</b>	<b>5.5888</b>	<b>6.8509</b>	<b>0.0247</b>	<b>1.9168</b>	<b>0.0252</b>	<b>1.9421</b>	<b>0.5140</b>	<b>0.0238</b>	<b>0.5378</b>		<b>2,534.6563</b>	<b>2,534.6563</b>	<b>0.1120</b>		<b>2,537.4559</b>

**3.5 Architectural Coating - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	8.7385					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2422	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109		281.4481	281.4481	0.0218		281.9928
<b>Total</b>	<b>8.9807</b>	<b>1.6838</b>	<b>1.8314</b>	<b>2.9700e-003</b>		<b>0.1109</b>	<b>0.1109</b>		<b>0.1109</b>	<b>0.1109</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0218</b>		<b>281.9928</b>

Mitigated - San Luis Ranch Project - 2020 Start - San Luis Obispo County APCD Air District, Winter

**3.5 Architectural Coating - 2020**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	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	0.1658	0.1377	1.1742	3.0100e-003	0.3361	2.1500e-003	0.3383	0.0892	1.9800e-003	0.0911		299.4132	299.4132	9.9000e-003		299.6608
<b>Total</b>	<b>0.1658</b>	<b>0.1377</b>	<b>1.1742</b>	<b>3.0100e-003</b>	<b>0.3361</b>	<b>2.1500e-003</b>	<b>0.3383</b>	<b>0.0892</b>	<b>1.9800e-003</b>	<b>0.0911</b>		<b>299.4132</b>	<b>299.4132</b>	<b>9.9000e-003</b>		<b>299.6608</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	8.7385					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0594	1.3570	1.8324	2.9700e-003		0.0475	0.0475		0.0475	0.0475	0.0000	281.4481	281.4481	0.0218		281.9928
<b>Total</b>	<b>8.7979</b>	<b>1.3570</b>	<b>1.8324</b>	<b>2.9700e-003</b>		<b>0.0475</b>	<b>0.0475</b>		<b>0.0475</b>	<b>0.0475</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0218</b>		<b>281.9928</b>

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**3.5 Architectural Coating - 2020**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	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	0.1658	0.1377	1.1742	3.0100e-003	0.3361	2.1500e-003	0.3383	0.0892	1.9800e-003	0.0911		299.4132	299.4132	9.9000e-003		299.6608
<b>Total</b>	<b>0.1658</b>	<b>0.1377</b>	<b>1.1742</b>	<b>3.0100e-003</b>	<b>0.3361</b>	<b>2.1500e-003</b>	<b>0.3383</b>	<b>0.0892</b>	<b>1.9800e-003</b>	<b>0.0911</b>		<b>299.4132</b>	<b>299.4132</b>	<b>9.9000e-003</b>		<b>299.6608</b>

**3.5 Architectural Coating - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	8.7385					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309
<b>Total</b>	<b>8.9574</b>	<b>1.5268</b>	<b>1.8176</b>	<b>2.9700e-003</b>		<b>0.0941</b>	<b>0.0941</b>		<b>0.0941</b>	<b>0.0941</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0193</b>		<b>281.9309</b>

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**3.5 Architectural Coating - 2021**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1547	0.1231	1.0634	2.9000e-003	0.3361	2.0800e-003	0.3382	0.0892	1.9200e-003	0.0911		289.2087	289.2087	8.7900e-003		289.4285
<b>Total</b>	<b>0.1547</b>	<b>0.1231</b>	<b>1.0634</b>	<b>2.9000e-003</b>	<b>0.3361</b>	<b>2.0800e-003</b>	<b>0.3382</b>	<b>0.0892</b>	<b>1.9200e-003</b>	<b>0.0911</b>		<b>289.2087</b>	<b>289.2087</b>	<b>8.7900e-003</b>		<b>289.4285</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	8.7385					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0594	1.3570	1.8324	2.9700e-003		0.0475	0.0475		0.0475	0.0475	0.0000	281.4481	281.4481	0.0193		281.9309
<b>Total</b>	<b>8.7979</b>	<b>1.3570</b>	<b>1.8324</b>	<b>2.9700e-003</b>		<b>0.0475</b>	<b>0.0475</b>		<b>0.0475</b>	<b>0.0475</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0193</b>		<b>281.9309</b>

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**3.5 Architectural Coating - 2021**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1547	0.1231	1.0634	2.9000e-003	0.3361	2.0800e-003	0.3382	0.0892	1.9200e-003	0.0911		289.2087	289.2087	8.7900e-003		289.4285
<b>Total</b>	<b>0.1547</b>	<b>0.1231</b>	<b>1.0634</b>	<b>2.9000e-003</b>	<b>0.3361</b>	<b>2.0800e-003</b>	<b>0.3382</b>	<b>0.0892</b>	<b>1.9200e-003</b>	<b>0.0911</b>		<b>289.2087</b>	<b>289.2087</b>	<b>8.7900e-003</b>		<b>289.4285</b>

**3.6 Paving - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235		2,207.2109	2,207.2109	0.7139		2,225.0573
Paving	0.3144					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.5700</b>	<b>12.9191</b>	<b>14.6532</b>	<b>0.0228</b>		<b>0.6777</b>	<b>0.6777</b>		<b>0.6235</b>	<b>0.6235</b>		<b>2,207.2109</b>	<b>2,207.2109</b>	<b>0.7139</b>		<b>2,225.0573</b>



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**3.6 Paving - 2021**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0683	0.0543	0.4692	1.2800e-003	0.1483	9.2000e-004	0.1492	0.0393	8.5000e-004	0.0402		127.5921	127.5921	3.8800e-003		127.6890
<b>Total</b>	<b>0.0683</b>	<b>0.0543</b>	<b>0.4692</b>	<b>1.2800e-003</b>	<b>0.1483</b>	<b>9.2000e-004</b>	<b>0.1492</b>	<b>0.0393</b>	<b>8.5000e-004</b>	<b>0.0402</b>		<b>127.5921</b>	<b>127.5921</b>	<b>3.8800e-003</b>		<b>127.6890</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5609	11.2952	17.2957	0.0228		0.3047	0.3047		0.3047	0.3047	0.0000	2,207.2109	2,207.2109	0.7139		2,225.0573
Paving	0.3144					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.8753</b>	<b>11.2952</b>	<b>17.2957</b>	<b>0.0228</b>		<b>0.3047</b>	<b>0.3047</b>		<b>0.3047</b>	<b>0.3047</b>	<b>0.0000</b>	<b>2,207.2109</b>	<b>2,207.2109</b>	<b>0.7139</b>		<b>2,225.0573</b>

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**3.6 Paving - 2021**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0683	0.0543	0.4692	1.2800e-003	0.1483	9.2000e-004	0.1492	0.0393	8.5000e-004	0.0402		127.5921	127.5921	3.8800e-003		127.6890
<b>Total</b>	<b>0.0683</b>	<b>0.0543</b>	<b>0.4692</b>	<b>1.2800e-003</b>	<b>0.1483</b>	<b>9.2000e-004</b>	<b>0.1492</b>	<b>0.0393</b>	<b>8.5000e-004</b>	<b>0.0402</b>		<b>127.5921</b>	<b>127.5921</b>	<b>3.8800e-003</b>		<b>127.6890</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

Mitigated - San Luis Ranch Project - 2020 Start - San Luis Obispo County APCD Air District, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.8112	7.3238	19.6773	0.0543	5.1194	0.0572	5.1766	1.3676	0.0537	1.4213		5,481.0705	5,481.0705	0.2273		5,486.7521
Unmitigated	1.8112	7.3238	19.6773	0.0543	5.1194	0.0572	5.1766	1.3676	0.0537	1.4213		5,481.0705	5,481.0705	0.2273		5,486.7521

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	422.47	439.07	382.63	1,065,294	1,065,294
City Park	119.99	61.43	45.20	205,134	205,134
General Office Building	300.00	67.00	28.50	518,513	518,513
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Regional Shopping Center	221.75	259.50	131.00	309,253	309,253
Total	1,064.21	827.00	587.33	2,098,193	2,098,193

4.3 Trip Type Information

Mitigated - San Luis Ranch Project - 2020 Start - San Luis Obispo County APCD Air District, Winter

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
Apartments Mid Rise	13.00	5.00	5.00	35.80	21.00	43.20	86	11	3
City Park	13.00	5.00	5.00	33.00	48.00	19.00	66	28	6
General Office Building	13.00	5.00	5.00	33.00	48.00	19.00	77	19	4
Parking Lot	13.00	5.00	5.00	0.00	0.00	0.00	0	0	0
Parking Lot	13.00	5.00	5.00	0.00	0.00	0.00	0	0	0
Regional Shopping Center	13.00	5.00	5.00	16.30	64.70	19.00	54	35	11

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	0.575581	0.029595	0.198288	0.120539	0.026172	0.006482	0.012911	0.019591	0.002354	0.001214	0.005068	0.000784	0.001422
Parking Lot	0.575581	0.029595	0.198288	0.120539	0.026172	0.006482	0.012911	0.019591	0.002354	0.001214	0.005068	0.000784	0.001422
Parking Lot	0.575581	0.029595	0.198288	0.120539	0.026172	0.006482	0.012911	0.019591	0.002354	0.001214	0.005068	0.000784	0.001422
City Park	0.575581	0.029595	0.198288	0.120539	0.026172	0.006482	0.012911	0.019591	0.002354	0.001214	0.005068	0.000784	0.001422
Apartments Mid Rise	0.575581	0.029595	0.198288	0.120539	0.026172	0.006482	0.012911	0.019591	0.002354	0.001214	0.005068	0.000784	0.001422
Regional Shopping Center	0.575581	0.029595	0.198288	0.120539	0.026172	0.006482	0.012911	0.019591	0.002354	0.001214	0.005068	0.000784	0.001422

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

Exceed Title 24

Install Energy Efficient Appliances

Mitigated - San Luis Ranch Project - 2020 Start - San Luis Obispo County APCD Air District, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0344	0.3000	0.1696	1.8800e-003		0.0238	0.0238		0.0238	0.0238		375.2649	375.2649	7.1900e-003	6.8800e-003	377.4949
NaturalGas Unmitigated	0.0411	0.3584	0.2049	2.2400e-003		0.0284	0.0284		0.0284	0.0284		447.8591	447.8591	8.5800e-003	8.2100e-003	450.5205

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					
Apartments Mid Rise	2517.08	0.0271	0.2320	0.0987	1.4800e-003		0.0188	0.0188		0.0188	0.0188		296.1266	296.1266	5.6800e-003	5.4300e-003	297.8863
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
General Office Building	1126.71	0.0122	0.1105	0.0928	6.6000e-004		8.4000e-003	8.4000e-003		8.4000e-003	8.4000e-003		132.5544	132.5544	2.5400e-003	2.4300e-003	133.3421
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	163.014	1.7600e-003	0.0160	0.0134	1.0000e-004		1.2100e-003	1.2100e-003		1.2100e-003	1.2100e-003		19.1781	19.1781	3.7000e-004	3.5000e-004	19.2921
<b>Total</b>		<b>0.0411</b>	<b>0.3584</b>	<b>0.2049</b>	<b>2.2400e-003</b>		<b>0.0284</b>	<b>0.0284</b>		<b>0.0284</b>	<b>0.0284</b>		<b>447.8591</b>	<b>447.8591</b>	<b>8.5900e-003</b>	<b>8.2100e-003</b>	<b>450.5205</b>

Mitigated - San Luis Ranch Project - 2020 Start - San Luis Obispo County APCD Air District, Winter

**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					
Apartments Mid Rise	2.15715	0.0233	0.1988	0.0846	1.2700e-003		0.0161	0.0161		0.0161	0.0161		253.7822	253.7822	4.8600e-003	4.6500e-003	255.2903
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
General Office Building	0.902192	9.7300e-003	0.0885	0.0743	5.3000e-004		6.7200e-003	6.7200e-003		6.7200e-003	6.7200e-003		106.1402	106.1402	2.0300e-003	1.9500e-003	106.7710
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	0.130411	1.4100e-003	0.0128	0.0107	8.0000e-005		9.7000e-004	9.7000e-004		9.7000e-004	9.7000e-004		15.3425	15.3425	2.9000e-004	2.8000e-004	15.4336
<b>Total</b>		<b>0.0344</b>	<b>0.3000</b>	<b>0.1696</b>	<b>1.8800e-003</b>		<b>0.0238</b>	<b>0.0238</b>		<b>0.0238</b>	<b>0.0238</b>		<b>375.2649</b>	<b>375.2649</b>	<b>7.1800e-003</b>	<b>6.8800e-003</b>	<b>377.4949</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

Use only Natural Gas Hearths

No Hearths Installed

Mitigated - San Luis Ranch Project - 2020 Start - San Luis Obispo County APCD Air District, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	7.3953	0.0791	6.8606	3.6000e-004		0.0379	0.0379		0.0379	0.0379	0.0000	12.3419	12.3419	0.0119	0.0000	12.6401
Unmitigated	7.3953	0.0791	6.8606	3.6000e-004		0.0379	0.0379		0.0379	0.0379	0.0000	12.3419	12.3419	0.0119	0.0000	12.6401

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	1.7876					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	5.4001					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.2076	0.0791	6.8606	3.6000e-004		0.0379	0.0379		0.0379	0.0379		12.3419	12.3419	0.0119		12.6401
<b>Total</b>	<b>7.3953</b>	<b>0.0791</b>	<b>6.8606</b>	<b>3.6000e-004</b>		<b>0.0379</b>	<b>0.0379</b>		<b>0.0379</b>	<b>0.0379</b>	<b>0.0000</b>	<b>12.3419</b>	<b>12.3419</b>	<b>0.0119</b>	<b>0.0000</b>	<b>12.6401</b>

Mitigated - San Luis Ranch Project - 2020 Start - San Luis Obispo County APCD Air District, Winter

**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	1.7876					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	5.4001					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.2076	0.0791	6.8606	3.6000e-004		0.0379	0.0379		0.0379	0.0379		12.3419	12.3419	0.0119		12.6401
<b>Total</b>	<b>7.3953</b>	<b>0.0791</b>	<b>6.8606</b>	<b>3.6000e-004</b>		<b>0.0379</b>	<b>0.0379</b>		<b>0.0379</b>	<b>0.0379</b>	<b>0.0000</b>	<b>12.3419</b>	<b>12.3419</b>	<b>0.0119</b>	<b>0.0000</b>	<b>12.6401</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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

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Mitigated - San Luis Ranch Project - 2020 Start - San Luis Obispo County APCD Air District, Winter

**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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**11.0 Vegetation**

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Mitigated - San Luis Ranch Project - 2020 Start - San Luis Obispo County APCD Air District, Summary Report

**Mitigated - San Luis Ranch Project - 2020 Start**  
**San Luis Obispo County APCD, Summary Report**

## 1.0 Project Characteristics

### 1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	25.00	1000sqft	1.30	25,000.00	0
Parking Lot	0.60	Acre	0.60	26,136.00	0
Parking Lot	1.80	Acre	1.80	78,408.00	0
City Park	2.70	Acre	2.70	117,612.00	0
Apartments Mid Rise	83.00	Dwelling Unit	4.00	83,000.00	237
Regional Shopping Center	25.00	1000sqft	0.57	25,000.00	0

### 1.2 Other Project Characteristics

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	3.2	<b>Precipitation Freq (Days)</b>	44
<b>Climate Zone</b>	4			<b>Operational Year</b>	2022
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MW hr)</b>	641.35	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

### 1.3 User Entered Comments

Only CalEEMod defaults were used.

## Mitigated - San Luis Ranch Project - 2020 Start - San Luis Obispo County APCD Air District, Summary Report

## Project Characteristics -

Land Use - Land use values from buildout and phasing in Specific Plan Section 7.7. Includes portions of Phases 3, 5, and 6. Ag SF from Sect 3.9 of Specific Plan.

Construction Phase - No demolition. AC expected to overlap with half of building construction as painting would occur as buildings are finished.

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Demolition -

Grading - Total import proportionally distributed by phase acreage.

Architectural Coating - Per MM AQ-2

Vehicle Trips - Trip generation rate based on Omni-Means 2016 Traffic Impact Study.

Woodstoves - Per MM AQ-3

Construction Off-road Equipment Mitigation - Per MM AQ-2

Mobile Land Use Mitigation - Trip reductions from project's density, diversity, and access to alternative transportation accounted for in trip generation rates.

Area Mitigation - Per MM AQ-3

Energy Mitigation - Per Specific Plan, appliances will be energy efficient. Per MM AQ-3

Water Mitigation -

## 2.0 Peak Daily Emissions

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### Peak Daily Construction Emissions

#### Peak Daily Construction Emissions





Mitigated - San Luis Ranch Project - 2021 Start - San Luis Obispo County APCD Air District, Annual

**Mitigated - San Luis Ranch Project - 2021 Start**  
**San Luis Obispo County APCD Air District, Annual**

**1.0 Project Characteristics**

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**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	25.00	1000sqft	1.30	25,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	3.2	<b>Precipitation Freq (Days)</b>	44
<b>Climate Zone</b>	4			<b>Operational Year</b>	2022
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MW hr)</b>	641.35	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

**1.3 User Entered Comments & Non-Default Data**



Mitigated - San Luis Ranch Project - 2021 Start - San Luis Obispo County APCD Air District, Annual

tblConstEquipMitigation	DPF	No Change	Level 2
tblConstEquipMitigation	DPF	No Change	Level 2
tblConstEquipMitigation	DPF	No Change	Level 2
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
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tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	10.00	5.00
tblConstructionPhase	NumDays	200.00	100.00
tblConstructionPhase	NumDays	10.00	5.00
tblLandUse	LotAcreage	0.57	1.30



## Mitigated - San Luis Ranch Project - 2021 Start - San Luis Obispo County APCD Air District, Annual

tblProjectCharacteristics	OperationalYear	2018	2022
tblVehicleTrips	ST_TR	2.46	2.68
tblVehicleTrips	SU_TR	1.05	1.14
tblVehicleTrips	WD_TR	11.03	12.00

## 2.0 Emissions Summary

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Mitigated - San Luis Ranch Project - 2021 Start - San Luis Obispo County APCD Air District, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-1-2021	3-31-2021	0.5111	0.4234
2	4-1-2021	6-30-2021	0.3677	0.3142
		Highest	0.5111	0.4234

**2.2 Overall Operational**  
**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.1267	0.0000	4.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	8.2000e-004	8.2000e-004	0.0000	0.0000	8.7000e-004
Energy	2.2200e-003	0.0202	0.0169	1.2000e-004		1.5300e-003	1.5300e-003		1.5300e-003	1.5300e-003	0.0000	154.4560	154.4560	6.4100e-003	1.6400e-003	155.1057
Mobile	0.0668	0.2810	0.7406	2.1300e-003	0.1947	2.2000e-003	0.1969	0.0521	2.0700e-003	0.0542	0.0000	195.0057	195.0057	7.8300e-003	0.0000	195.2014
Waste						0.0000	0.0000		0.0000	0.0000	4.7195	0.0000	4.7195	0.2789	0.0000	11.6925
Water						0.0000	0.0000		0.0000	0.0000	1.4097	9.7672	11.1769	0.1452	3.5100e-003	15.8536
<b>Total</b>	<b>0.1957</b>	<b>0.3012</b>	<b>0.7580</b>	<b>2.2500e-003</b>	<b>0.1947</b>	<b>3.7300e-003</b>	<b>0.1985</b>	<b>0.0521</b>	<b>3.6000e-003</b>	<b>0.0557</b>	<b>6.1292</b>	<b>359.2298</b>	<b>365.3590</b>	<b>0.4384</b>	<b>5.1500e-003</b>	<b>377.8540</b>

Mitigated - San Luis Ranch Project - 2021 Start - San Luis Obispo County APCD Air District, Annual

**2.2 Overall Operational**

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.1267	0.0000	4.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	8.2000e-004	8.2000e-004	0.0000	0.0000	8.7000e-004
Energy	1.7800e-003	0.0161	0.0136	1.0000e-004		1.2300e-003	1.2300e-003		1.2300e-003	1.2300e-003	0.0000	140.7737	140.7737	5.9100e-003	1.4700e-003	141.3609
Mobile	0.0668	0.2810	0.7406	2.1300e-003	0.1947	2.2000e-003	0.1969	0.0521	2.0700e-003	0.0542	0.0000	195.0057	195.0057	7.8300e-003	0.0000	195.2014
Waste						0.0000	0.0000		0.0000	0.0000	4.7195	0.0000	4.7195	0.2789	0.0000	11.6925
Water						0.0000	0.0000		0.0000	0.0000	1.4097	9.7672	11.1769	0.1452	3.5100e-003	15.8536
<b>Total</b>	<b>0.1952</b>	<b>0.2971</b>	<b>0.7546</b>	<b>2.2300e-003</b>	<b>0.1947</b>	<b>3.4300e-003</b>	<b>0.1982</b>	<b>0.0521</b>	<b>3.3000e-003</b>	<b>0.0554</b>	<b>6.1292</b>	<b>345.5475</b>	<b>351.6767</b>	<b>0.4379</b>	<b>4.9800e-003</b>	<b>364.1092</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
<b>Percent Reduction</b>	<b>0.22</b>	<b>1.33</b>	<b>0.44</b>	<b>0.89</b>	<b>0.00</b>	<b>8.04</b>	<b>0.15</b>	<b>0.00</b>	<b>8.33</b>	<b>0.54</b>	<b>0.00</b>	<b>3.81</b>	<b>3.74</b>	<b>0.11</b>	<b>3.30</b>	<b>3.64</b>

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Building Construction	Building Construction	1/1/2021	5/20/2021	5	100	
2	Paving	Paving	5/21/2021	5/27/2021	5	5	
3	Architectural Coating	Architectural Coating	5/28/2021	6/3/2021	5	5	

Mitigated - San Luis Ranch Project - 2021 Start - San Luis Obispo County APCD Air District, Annual

**Acres of Grading (Site Preparation Phase): 0**

**Acres of Grading (Grading Phase): 0**

**Acres of Paving: 0**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 37,500; Non-Residential Outdoor: 12,500; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Construction	Cranes	1	6.00	231	0.29
Building Construction	Forklifts	1	6.00	89	0.20
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Paving	Cement and Mortar Mixers	1	6.00	9	0.56
Paving	Pavers	1	6.00	130	0.42
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48
Building Construction	Generator Sets	1	8.00	84	0.74
Paving	Paving Equipment	1	8.00	132	0.36
Building Construction	Welders	3	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
Building Construction	7	8.00	4.00	0.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	13.00	0.00	0.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	2.00	0.00	0.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT

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**3.1 Mitigation Measures Construction**

Use Cleaner Engines for Construction Equipment

Use DPF for Construction Equipment

Clean Paved Roads

**3.2 Building Construction - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0906	0.6818	0.6450	1.1000e-003		0.0342	0.0342		0.0330	0.0330	0.0000	90.7738	90.7738	0.0162	0.0000	91.1790
<b>Total</b>	<b>0.0906</b>	<b>0.6818</b>	<b>0.6450</b>	<b>1.1000e-003</b>		<b>0.0342</b>	<b>0.0342</b>		<b>0.0330</b>	<b>0.0330</b>	<b>0.0000</b>	<b>90.7738</b>	<b>90.7738</b>	<b>0.0162</b>	<b>0.0000</b>	<b>91.1790</b>

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**3.2 Building Construction - 2021**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.1000e-004	0.0190	5.5800e-003	4.0000e-005	9.1000e-004	5.0000e-005	9.6000e-004	2.6000e-004	5.0000e-005	3.1000e-004	0.0000	3.8247	3.8247	2.3000e-004	0.0000	3.8303
Worker	1.6300e-003	1.4200e-003	0.0125	3.0000e-005	3.8500e-003	2.0000e-005	3.8800e-003	1.0200e-003	2.0000e-005	1.0500e-003	0.0000	3.1118	3.1118	9.0000e-005	0.0000	3.1142
<b>Total</b>	<b>2.2400e-003</b>	<b>0.0205</b>	<b>0.0181</b>	<b>7.0000e-005</b>	<b>4.7600e-003</b>	<b>7.0000e-005</b>	<b>4.8400e-003</b>	<b>1.2800e-003</b>	<b>7.0000e-005</b>	<b>1.3600e-003</b>	<b>0.0000</b>	<b>6.9365</b>	<b>6.9365</b>	<b>3.2000e-004</b>	<b>0.0000</b>	<b>6.9445</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0320	0.6038	0.6739	1.1000e-003		0.0183	0.0183		0.0183	0.0183	0.0000	90.7737	90.7737	0.0162	0.0000	91.1788
<b>Total</b>	<b>0.0320</b>	<b>0.6038</b>	<b>0.6739</b>	<b>1.1000e-003</b>		<b>0.0183</b>	<b>0.0183</b>		<b>0.0183</b>	<b>0.0183</b>	<b>0.0000</b>	<b>90.7737</b>	<b>90.7737</b>	<b>0.0162</b>	<b>0.0000</b>	<b>91.1788</b>

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**3.2 Building Construction - 2021**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.1000e-004	0.0190	5.5800e-003	4.0000e-005	9.1000e-004	5.0000e-005	9.6000e-004	2.6000e-004	5.0000e-005	3.1000e-004	0.0000	3.8247	3.8247	2.3000e-004	0.0000	3.8303
Worker	1.6300e-003	1.4200e-003	0.0125	3.0000e-005	3.8500e-003	2.0000e-005	3.8800e-003	1.0200e-003	2.0000e-005	1.0500e-003	0.0000	3.1118	3.1118	9.0000e-005	0.0000	3.1142
<b>Total</b>	<b>2.2400e-003</b>	<b>0.0205</b>	<b>0.0181</b>	<b>7.0000e-005</b>	<b>4.7600e-003</b>	<b>7.0000e-005</b>	<b>4.8400e-003</b>	<b>1.2800e-003</b>	<b>7.0000e-005</b>	<b>1.3600e-003</b>	<b>0.0000</b>	<b>6.9365</b>	<b>6.9365</b>	<b>3.2000e-004</b>	<b>0.0000</b>	<b>6.9445</b>

**3.3 Paving - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.9300e-003	0.0194	0.0221	3.0000e-005		1.0400e-003	1.0400e-003		9.6000e-004	9.6000e-004	0.0000	2.9412	2.9412	9.3000e-004	0.0000	2.9646
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>1.9300e-003</b>	<b>0.0194</b>	<b>0.0221</b>	<b>3.0000e-005</b>		<b>1.0400e-003</b>	<b>1.0400e-003</b>		<b>9.6000e-004</b>	<b>9.6000e-004</b>	<b>0.0000</b>	<b>2.9412</b>	<b>2.9412</b>	<b>9.3000e-004</b>	<b>0.0000</b>	<b>2.9646</b>



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**3.3 Paving - 2021**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.3000e-004	1.2000e-004	1.0100e-003	0.0000	3.1000e-004	0.0000	3.1000e-004	8.0000e-005	0.0000	8.0000e-005	0.0000	0.2528	0.2528	1.0000e-005	0.0000	0.2530
<b>Total</b>	<b>1.3000e-004</b>	<b>1.2000e-004</b>	<b>1.0100e-003</b>	<b>0.0000</b>	<b>3.1000e-004</b>	<b>0.0000</b>	<b>3.1000e-004</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>0.2528</b>	<b>0.2528</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.2530</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	8.0000e-004	0.0166	0.0246	3.0000e-005		4.8000e-004	4.8000e-004		4.8000e-004	4.8000e-004	0.0000	2.9412	2.9412	9.3000e-004	0.0000	2.9646
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>8.0000e-004</b>	<b>0.0166</b>	<b>0.0246</b>	<b>3.0000e-005</b>		<b>4.8000e-004</b>	<b>4.8000e-004</b>		<b>4.8000e-004</b>	<b>4.8000e-004</b>	<b>0.0000</b>	<b>2.9412</b>	<b>2.9412</b>	<b>9.3000e-004</b>	<b>0.0000</b>	<b>2.9646</b>

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**3.3 Paving - 2021**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.3000e-004	1.2000e-004	1.0100e-003	0.0000	3.1000e-004	0.0000	3.1000e-004	8.0000e-005	0.0000	8.0000e-005	0.0000	0.2528	0.2528	1.0000e-005	0.0000	0.2530
<b>Total</b>	<b>1.3000e-004</b>	<b>1.2000e-004</b>	<b>1.0100e-003</b>	<b>0.0000</b>	<b>3.1000e-004</b>	<b>0.0000</b>	<b>3.1000e-004</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>0.2528</b>	<b>0.2528</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.2530</b>

**3.4 Architectural Coating - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0579					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.5000e-004	3.8200e-003	4.5400e-003	1.0000e-005		2.4000e-004	2.4000e-004		2.4000e-004	2.4000e-004	0.0000	0.6383	0.6383	4.0000e-005	0.0000	0.6394
<b>Total</b>	<b>0.0585</b>	<b>3.8200e-003</b>	<b>4.5400e-003</b>	<b>1.0000e-005</b>		<b>2.4000e-004</b>	<b>2.4000e-004</b>		<b>2.4000e-004</b>	<b>2.4000e-004</b>	<b>0.0000</b>	<b>0.6383</b>	<b>0.6383</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>0.6394</b>

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**3.4 Architectural Coating - 2021**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.0000e-005	2.0000e-005	1.6000e-004	0.0000	5.0000e-005	0.0000	5.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0389	0.0389	0.0000	0.0000	0.0389
<b>Total</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>1.6000e-004</b>	<b>0.0000</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>5.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.0389</b>	<b>0.0389</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0389</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0579					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.5000e-004	3.3900e-003	4.5800e-003	1.0000e-005		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004	0.0000	0.6383	0.6383	4.0000e-005	0.0000	0.6394
<b>Total</b>	<b>0.0581</b>	<b>3.3900e-003</b>	<b>4.5800e-003</b>	<b>1.0000e-005</b>		<b>1.2000e-004</b>	<b>1.2000e-004</b>		<b>1.2000e-004</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>0.6383</b>	<b>0.6383</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>0.6394</b>

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**3.4 Architectural Coating - 2021**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.0000e-005	2.0000e-005	1.6000e-004	0.0000	5.0000e-005	0.0000	5.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0389	0.0389	0.0000	0.0000	0.0389
<b>Total</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>1.6000e-004</b>	<b>0.0000</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>5.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.0389</b>	<b>0.0389</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0389</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0668	0.2810	0.7406	2.1300e-003	0.1947	2.2000e-003	0.1969	0.0521	2.0700e-003	0.0542	0.0000	195.0057	195.0057	7.8300e-003	0.0000	195.2014
Unmitigated	0.0668	0.2810	0.7406	2.1300e-003	0.1947	2.2000e-003	0.1969	0.0521	2.0700e-003	0.0542	0.0000	195.0057	195.0057	7.8300e-003	0.0000	195.2014

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	300.00	67.00	28.50	518,513	518,513
Total	300.00	67.00	28.50	518,513	518,513

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
General Office Building	13.00	5.00	5.00	33.00	48.00	19.00	77	19	4

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	0.575581	0.029595	0.198288	0.120539	0.026172	0.006482	0.012911	0.019591	0.002354	0.001214	0.005068	0.000784	0.001422

5.0 Energy Detail

Historical Energy Use: N

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**5.1 Mitigation Measures Energy**

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	123.2010	123.2010	5.5700e-003	1.1500e-003	123.6837
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	132.5102	132.5102	5.9900e-003	1.2400e-003	133.0294
NaturalGas Mitigated	1.7800e-003	0.0161	0.0136	1.0000e-004		1.2300e-003	1.2300e-003		1.2300e-003	1.2300e-003	0.0000	17.5727	17.5727	3.4000e-004	3.2000e-004	17.6771
NaturalGas Unmitigated	2.2200e-003	0.0202	0.0169	1.2000e-004		1.5300e-003	1.5300e-003		1.5300e-003	1.5300e-003	0.0000	21.9459	21.9459	4.2000e-004	4.0000e-004	22.0763

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**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Office Building	411250	2.2200e-003	0.0202	0.0169	1.2000e-004		1.5300e-003	1.5300e-003		1.5300e-003	1.5300e-003	0.0000	21.9459	21.9459	4.2000e-004	4.0000e-004	22.0763
<b>Total</b>		<b>2.2200e-003</b>	<b>0.0202</b>	<b>0.0169</b>	<b>1.2000e-004</b>		<b>1.5300e-003</b>	<b>1.5300e-003</b>		<b>1.5300e-003</b>	<b>1.5300e-003</b>	<b>0.0000</b>	<b>21.9459</b>	<b>21.9459</b>	<b>4.2000e-004</b>	<b>4.0000e-004</b>	<b>22.0763</b>

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Office Building	329300	1.7800e-003	0.0161	0.0136	1.0000e-004		1.2300e-003	1.2300e-003		1.2300e-003	1.2300e-003	0.0000	17.5727	17.5727	3.4000e-004	3.2000e-004	17.6771
<b>Total</b>		<b>1.7800e-003</b>	<b>0.0161</b>	<b>0.0136</b>	<b>1.0000e-004</b>		<b>1.2300e-003</b>	<b>1.2300e-003</b>		<b>1.2300e-003</b>	<b>1.2300e-003</b>	<b>0.0000</b>	<b>17.5727</b>	<b>17.5727</b>	<b>3.4000e-004</b>	<b>3.2000e-004</b>	<b>17.6771</b>

Mitigated - San Luis Ranch Project - 2021 Start - San Luis Obispo County APCD Air District, Annual

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	455500	132.5102	5.9900e-003	1.2400e-003	133.0294
<b>Total</b>		<b>132.5102</b>	<b>5.9900e-003</b>	<b>1.2400e-003</b>	<b>133.0294</b>

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	423500	123.2010	5.5700e-003	1.1500e-003	123.6837
<b>Total</b>		<b>123.2010</b>	<b>5.5700e-003</b>	<b>1.1500e-003</b>	<b>123.6837</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**



Mitigated - San Luis Ranch Project - 2021 Start - San Luis Obispo County APCD Air District, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.1267	0.0000	4.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	8.2000e-004	8.2000e-004	0.0000	0.0000	8.7000e-004
Unmitigated	0.1267	0.0000	4.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	8.2000e-004	8.2000e-004	0.0000	0.0000	8.7000e-004

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0290					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0976					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.0000e-005	0.0000	4.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	8.2000e-004	8.2000e-004	0.0000	0.0000	8.7000e-004
<b>Total</b>	<b>0.1267</b>	<b>0.0000</b>	<b>4.2000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>8.2000e-004</b>	<b>8.2000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>8.7000e-004</b>

Mitigated - San Luis Ranch Project - 2021 Start - San Luis Obispo County APCD Air District, Annual

**6.2 Area by SubCategory**

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0290					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0976					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.0000e-005	0.0000	4.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	8.2000e-004	8.2000e-004	0.0000	0.0000	8.7000e-004
<b>Total</b>	<b>0.1267</b>	<b>0.0000</b>	<b>4.2000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>8.2000e-004</b>	<b>8.2000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>8.7000e-004</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

Mitigated - San Luis Ranch Project - 2021 Start - San Luis Obispo County APCD Air District, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	11.1769	0.1452	3.5100e-003	15.8536
Unmitigated	11.1769	0.1452	3.5100e-003	15.8536

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	4.44334 / 2.72334	11.1769	0.1452	3.5100e-003	15.8536
<b>Total</b>		<b>11.1769</b>	<b>0.1452</b>	<b>3.5100e-003</b>	<b>15.8536</b>

Mitigated - San Luis Ranch Project - 2021 Start - San Luis Obispo County APCD Air District, Annual

**7.2 Water by Land Use**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	4.44334 / 2.72334	11.1769	0.1452	3.5100e-003	15.8536
<b>Total</b>		<b>11.1769</b>	<b>0.1452</b>	<b>3.5100e-003</b>	<b>15.8536</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	4.7195	0.2789	0.0000	11.6925
Unmitigated	4.7195	0.2789	0.0000	11.6925

Mitigated - San Luis Ranch Project - 2021 Start - San Luis Obispo County APCD Air District, Annual

**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	23.25	4.7195	0.2789	0.0000	11.6925
<b>Total</b>		<b>4.7195</b>	<b>0.2789</b>	<b>0.0000</b>	<b>11.6925</b>

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	23.25	4.7195	0.2789	0.0000	11.6925
<b>Total</b>		<b>4.7195</b>	<b>0.2789</b>	<b>0.0000</b>	<b>11.6925</b>

**9.0 Operational Offroad**

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Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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Mitigated - San Luis Ranch Project - 2021 Start - San Luis Obispo County APCD Air District, Annual

## 10.0 Stationary Equipment

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### Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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## 11.0 Vegetation

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Mitigated - San Luis Ranch Project - 2021 Start - San Luis Obispo County APCD Air District, Summer

**Mitigated - San Luis Ranch Project - 2021 Start**  
**San Luis Obispo County APCD Air District, Summer**

**1.0 Project Characteristics**

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**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	25.00	1000sqft	1.30	25,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	3.2	<b>Precipitation Freq (Days)</b>	44
<b>Climate Zone</b>	4			<b>Operational Year</b>	2022
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MW hr)</b>	641.35	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

**1.3 User Entered Comments & Non-Default Data**





Mitigated - San Luis Ranch Project - 2021 Start - San Luis Obispo County APCD Air District, Summer

tblConstEquipMitigation	DPF	No Change	Level 2
tblConstEquipMitigation	DPF	No Change	Level 2
tblConstEquipMitigation	DPF	No Change	Level 2
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	10.00	5.00
tblConstructionPhase	NumDays	200.00	100.00
tblConstructionPhase	NumDays	10.00	5.00
tblLandUse	LotAcreage	0.57	1.30

## Mitigated - San Luis Ranch Project - 2021 Start - San Luis Obispo County APCD Air District, Summer

tblProjectCharacteristics	OperationalYear	2018	2022
tblVehicleTrips	ST_TR	2.46	2.68
tblVehicleTrips	SU_TR	1.05	1.14
tblVehicleTrips	WD_TR	11.03	12.00

## 2.0 Emissions Summary

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Mitigated - San Luis Ranch Project - 2021 Start - San Luis Obispo County APCD Air District, Summer

**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	0.6940	2.0000e-005	2.5600e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		5.4700e-003	5.4700e-003	1.0000e-005		5.8300e-003
Energy	0.0122	0.1105	0.0928	6.6000e-004		8.4000e-003	8.4000e-003		8.4000e-003	8.4000e-003		132.5544	132.5544	2.5400e-003	2.4300e-003	133.3421
Mobile	0.5107	1.9597	5.3285	0.0159	1.4456	0.0159	1.4614	0.3862	0.0149	0.4011		1,606.1862	1,606.1862	0.0623		1,607.7424
<b>Total</b>	<b>1.2168</b>	<b>2.0702</b>	<b>5.4238</b>	<b>0.0166</b>	<b>1.4456</b>	<b>0.0243</b>	<b>1.4699</b>	<b>0.3862</b>	<b>0.0233</b>	<b>0.4095</b>		<b>1,738.7460</b>	<b>1,738.7460</b>	<b>0.0648</b>	<b>2.4300e-003</b>	<b>1,741.0904</b>

**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	0.6940	2.0000e-005	2.5600e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		5.4700e-003	5.4700e-003	1.0000e-005		5.8300e-003
Energy	9.7300e-003	0.0885	0.0743	5.3000e-004		6.7200e-003	6.7200e-003		6.7200e-003	6.7200e-003		106.1402	106.1402	2.0300e-003	1.9500e-003	106.7710
Mobile	0.5107	1.9597	5.3285	0.0159	1.4456	0.0159	1.4614	0.3862	0.0149	0.4011		1,606.1862	1,606.1862	0.0623		1,607.7424
<b>Total</b>	<b>1.2144</b>	<b>2.0482</b>	<b>5.4053</b>	<b>0.0165</b>	<b>1.4456</b>	<b>0.0226</b>	<b>1.4682</b>	<b>0.3862</b>	<b>0.0216</b>	<b>0.4078</b>		<b>1,712.3318</b>	<b>1,712.3318</b>	<b>0.0643</b>	<b>1.9500e-003</b>	<b>1,714.5192</b>

## Mitigated - San Luis Ranch Project - 2021 Start - San Luis Obispo County APCD Air District, Summer

	ROG	NOx	CO	SO2	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	0.20	1.06	0.34	0.78	0.00	6.92	0.11	0.00	7.21	0.41	0.00	1.52	1.52	0.79	19.75	1.53

### 3.0 Construction Detail

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#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Building Construction	Building Construction	1/1/2021	5/20/2021	5	100	
2	Paving	Paving	5/21/2021	5/27/2021	5	5	
3	Architectural Coating	Architectural Coating	5/28/2021	6/3/2021	5	5	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 37,500; Non-Residential Outdoor: 12,500; Striped Parking Area: 0 (Architectural Coating – sqft)

#### OffRoad Equipment

Mitigated - San Luis Ranch Project - 2021 Start - San Luis Obispo County APCD Air District, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Construction	Cranes	1	6.00	231	0.29
Building Construction	Forklifts	1	6.00	89	0.20
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Paving	Cement and Mortar Mixers	1	6.00	9	0.56
Paving	Pavers	1	6.00	130	0.42
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48
Building Construction	Generator Sets	1	8.00	84	0.74
Paving	Paving Equipment	1	8.00	132	0.36
Building Construction	Welders	3	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
Building Construction	7	8.00	4.00	0.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	13.00	0.00	0.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	2.00	0.00	0.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Use Cleaner Engines for Construction Equipment

Use DPF for Construction Equipment

Clean Paved Roads

Mitigated - San Luis Ranch Project - 2021 Start - San Luis Obispo County APCD Air District, Summer

**3.2 Building Construction - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.8125	13.6361	12.8994	0.0221		0.6843	0.6843		0.6608	0.6608		2,001.2200	2,001.2200	0.3573		2,010.1517
<b>Total</b>	<b>1.8125</b>	<b>13.6361</b>	<b>12.8994</b>	<b>0.0221</b>		<b>0.6843</b>	<b>0.6843</b>		<b>0.6608</b>	<b>0.6608</b>		<b>2,001.2200</b>	<b>2,001.2200</b>	<b>0.3573</b>		<b>2,010.1517</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0119	0.3781	0.1043	8.0000e-004	0.0186	1.0600e-003	0.0196	5.3500e-003	1.0100e-003	6.3600e-003		85.4226	85.4226	4.8100e-003		85.5429
Worker	0.0319	0.0255	0.2579	7.2000e-004	0.0791	4.9000e-004	0.0796	0.0210	4.5000e-004	0.0214		71.3922	71.3922	2.1400e-003		71.4458
<b>Total</b>	<b>0.0437</b>	<b>0.4036</b>	<b>0.3622</b>	<b>1.5200e-003</b>	<b>0.0977</b>	<b>1.5500e-003</b>	<b>0.0992</b>	<b>0.0263</b>	<b>1.4600e-003</b>	<b>0.0278</b>		<b>156.8148</b>	<b>156.8148</b>	<b>6.9500e-003</b>		<b>156.9887</b>

Mitigated - San Luis Ranch Project - 2021 Start - San Luis Obispo County APCD Air District, Summer

**3.2 Building Construction - 2021**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6407	12.0767	13.4786	0.0221		0.3658	0.3658		0.3658	0.3658	0.0000	2,001.2200	2,001.2200	0.3573		2,010.1517
<b>Total</b>	<b>0.6407</b>	<b>12.0767</b>	<b>13.4786</b>	<b>0.0221</b>		<b>0.3658</b>	<b>0.3658</b>		<b>0.3658</b>	<b>0.3658</b>	<b>0.0000</b>	<b>2,001.2200</b>	<b>2,001.2200</b>	<b>0.3573</b>		<b>2,010.1517</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0119	0.3781	0.1043	8.0000e-004	0.0186	1.0600e-003	0.0196	5.3500e-003	1.0100e-003	6.3600e-003		85.4226	85.4226	4.8100e-003		85.5429
Worker	0.0319	0.0255	0.2579	7.2000e-004	0.0791	4.9000e-004	0.0796	0.0210	4.5000e-004	0.0214		71.3922	71.3922	2.1400e-003		71.4458
<b>Total</b>	<b>0.0437</b>	<b>0.4036</b>	<b>0.3622</b>	<b>1.5200e-003</b>	<b>0.0977</b>	<b>1.5500e-003</b>	<b>0.0992</b>	<b>0.0263</b>	<b>1.4600e-003</b>	<b>0.0278</b>		<b>156.8148</b>	<b>156.8148</b>	<b>6.9500e-003</b>		<b>156.9887</b>



Mitigated - San Luis Ranch Project - 2021 Start - San Luis Obispo County APCD Air District, Summer

**3.3 Paving - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7739	7.7422	8.8569	0.0135		0.4153	0.4153		0.3830	0.3830		1,296.8664	1,296.8664	0.4111		1,307.1442
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.7739</b>	<b>7.7422</b>	<b>8.8569</b>	<b>0.0135</b>		<b>0.4153</b>	<b>0.4153</b>		<b>0.3830</b>	<b>0.3830</b>		<b>1,296.8664</b>	<b>1,296.8664</b>	<b>0.4111</b>		<b>1,307.1442</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0518	0.0415	0.4191	1.1600e-003	0.1285	8.0000e-004	0.1293	0.0341	7.3000e-004	0.0348		116.0123	116.0123	3.4800e-003		116.0994
<b>Total</b>	<b>0.0518</b>	<b>0.0415</b>	<b>0.4191</b>	<b>1.1600e-003</b>	<b>0.1285</b>	<b>8.0000e-004</b>	<b>0.1293</b>	<b>0.0341</b>	<b>7.3000e-004</b>	<b>0.0348</b>		<b>116.0123</b>	<b>116.0123</b>	<b>3.4800e-003</b>		<b>116.0994</b>

Mitigated - San Luis Ranch Project - 2021 Start - San Luis Obispo County APCD Air District, Summer

**3.3 Paving - 2021**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3195	6.6399	9.8512	0.0135		0.1932	0.1932		0.1932	0.1932	0.0000	1,296.8664	1,296.8664	0.4111		1,307.1442
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.3195</b>	<b>6.6399</b>	<b>9.8512</b>	<b>0.0135</b>		<b>0.1932</b>	<b>0.1932</b>		<b>0.1932</b>	<b>0.1932</b>	<b>0.0000</b>	<b>1,296.8664</b>	<b>1,296.8664</b>	<b>0.4111</b>		<b>1,307.1442</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0518	0.0415	0.4191	1.1600e-003	0.1285	8.0000e-004	0.1293	0.0341	7.3000e-004	0.0348		116.0123	116.0123	3.4800e-003		116.0994
<b>Total</b>	<b>0.0518</b>	<b>0.0415</b>	<b>0.4191</b>	<b>1.1600e-003</b>	<b>0.1285</b>	<b>8.0000e-004</b>	<b>0.1293</b>	<b>0.0341</b>	<b>7.3000e-004</b>	<b>0.0348</b>		<b>116.0123</b>	<b>116.0123</b>	<b>3.4800e-003</b>		<b>116.0994</b>

Mitigated - San Luis Ranch Project - 2021 Start - San Luis Obispo County APCD Air District, Summer

**3.4 Architectural Coating - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	23.1750					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309
<b>Total</b>	<b>23.3939</b>	<b>1.5268</b>	<b>1.8176</b>	<b>2.9700e-003</b>		<b>0.0941</b>	<b>0.0941</b>		<b>0.0941</b>	<b>0.0941</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0193</b>		<b>281.9309</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	7.9700e-003	6.3800e-003	0.0645	1.8000e-004	0.0198	1.2000e-004	0.0199	5.2400e-003	1.1000e-004	5.3600e-003		17.8480	17.8480	5.4000e-004		17.8614
<b>Total</b>	<b>7.9700e-003</b>	<b>6.3800e-003</b>	<b>0.0645</b>	<b>1.8000e-004</b>	<b>0.0198</b>	<b>1.2000e-004</b>	<b>0.0199</b>	<b>5.2400e-003</b>	<b>1.1000e-004</b>	<b>5.3600e-003</b>		<b>17.8480</b>	<b>17.8480</b>	<b>5.4000e-004</b>		<b>17.8614</b>

Mitigated - San Luis Ranch Project - 2021 Start - San Luis Obispo County APCD Air District, Summer

**3.4 Architectural Coating - 2021**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	23.1750					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0594	1.3570	1.8324	2.9700e-003		0.0475	0.0475		0.0475	0.0475	0.0000	281.4481	281.4481	0.0193		281.9309
<b>Total</b>	<b>23.2344</b>	<b>1.3570</b>	<b>1.8324</b>	<b>2.9700e-003</b>		<b>0.0475</b>	<b>0.0475</b>		<b>0.0475</b>	<b>0.0475</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0193</b>		<b>281.9309</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	7.9700e-003	6.3800e-003	0.0645	1.8000e-004	0.0198	1.2000e-004	0.0199	5.2400e-003	1.1000e-004	5.3600e-003		17.8480	17.8480	5.4000e-004		17.8614
<b>Total</b>	<b>7.9700e-003</b>	<b>6.3800e-003</b>	<b>0.0645</b>	<b>1.8000e-004</b>	<b>0.0198</b>	<b>1.2000e-004</b>	<b>0.0199</b>	<b>5.2400e-003</b>	<b>1.1000e-004</b>	<b>5.3600e-003</b>		<b>17.8480</b>	<b>17.8480</b>	<b>5.4000e-004</b>		<b>17.8614</b>

**4.0 Operational Detail - Mobile**

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Mitigated - San Luis Ranch Project - 2021 Start - San Luis Obispo County APCD Air District, Summer

**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.5107	1.9597	5.3285	0.0159	1.4456	0.0159	1.4614	0.3862	0.0149	0.4011		1,606.186 2	1,606.186 2	0.0623		1,607.742 4
Unmitigated	0.5107	1.9597	5.3285	0.0159	1.4456	0.0159	1.4614	0.3862	0.0149	0.4011		1,606.186 2	1,606.186 2	0.0623		1,607.742 4

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	300.00	67.00	28.50	518,513	518,513
Total	300.00	67.00	28.50	518,513	518,513

**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
General Office Building	13.00	5.00	5.00	33.00	48.00	19.00	77	19	4

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	0.575581	0.029595	0.198288	0.120539	0.026172	0.006482	0.012911	0.019591	0.002354	0.001214	0.005068	0.000784	0.001422

Mitigated - San Luis Ranch Project - 2021 Start - San Luis Obispo County APCD Air District, Summer

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

Exceed Title 24

	ROG	NOx	CO	SO2	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	9.7300e-003	0.0885	0.0743	5.3000e-004		6.7200e-003	6.7200e-003		6.7200e-003	6.7200e-003		106.1402	106.1402	2.0300e-003	1.9500e-003	106.7710
NaturalGas Unmitigated	0.0122	0.1105	0.0928	6.6000e-004		8.4000e-003	8.4000e-003		8.4000e-003	8.4000e-003		132.5544	132.5544	2.5400e-003	2.4300e-003	133.3421

Mitigated - San Luis Ranch Project - 2021 Start - San Luis Obispo County APCD Air District, Summer

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Office Building	1126.71	0.0122	0.1105	0.0928	6.6000e-004		8.4000e-003	8.4000e-003		8.4000e-003	8.4000e-003		132.5544	132.5544	2.5400e-003	2.4300e-003	133.3421
<b>Total</b>		<b>0.0122</b>	<b>0.1105</b>	<b>0.0928</b>	<b>6.6000e-004</b>		<b>8.4000e-003</b>	<b>8.4000e-003</b>		<b>8.4000e-003</b>	<b>8.4000e-003</b>		<b>132.5544</b>	<b>132.5544</b>	<b>2.5400e-003</b>	<b>2.4300e-003</b>	<b>133.3421</b>

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Office Building	0.902192	9.7300e-003	0.0885	0.0743	5.3000e-004		6.7200e-003	6.7200e-003		6.7200e-003	6.7200e-003		106.1402	106.1402	2.0300e-003	1.9500e-003	106.7710
<b>Total</b>		<b>9.7300e-003</b>	<b>0.0885</b>	<b>0.0743</b>	<b>5.3000e-004</b>		<b>6.7200e-003</b>	<b>6.7200e-003</b>		<b>6.7200e-003</b>	<b>6.7200e-003</b>		<b>106.1402</b>	<b>106.1402</b>	<b>2.0300e-003</b>	<b>1.9500e-003</b>	<b>106.7710</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

Mitigated - San Luis Ranch Project - 2021 Start - San Luis Obispo County APCD Air District, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.6940	2.0000e-005	2.5600e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		5.4700e-003	5.4700e-003	1.0000e-005		5.8300e-003
Unmitigated	0.6940	2.0000e-005	2.5600e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		5.4700e-003	5.4700e-003	1.0000e-005		5.8300e-003

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.1587					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.5350					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.4000e-004	2.0000e-005	2.5600e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		5.4700e-003	5.4700e-003	1.0000e-005		5.8300e-003
<b>Total</b>	<b>0.6940</b>	<b>2.0000e-005</b>	<b>2.5600e-003</b>	<b>0.0000</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>		<b>5.4700e-003</b>	<b>5.4700e-003</b>	<b>1.0000e-005</b>		<b>5.8300e-003</b>



Mitigated - San Luis Ranch Project - 2021 Start - San Luis Obispo County APCD Air District, Summer

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
SubCategory	lb/day										lb/day						
Architectural Coating	0.1587					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Consumer Products	0.5350					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Landscaping	2.4000e-004	2.0000e-005	2.5600e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005			5.4700e-003	5.4700e-003	1.0000e-005		5.8300e-003
<b>Total</b>	<b>0.6940</b>	<b>2.0000e-005</b>	<b>2.5600e-003</b>	<b>0.0000</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>			<b>5.4700e-003</b>	<b>5.4700e-003</b>	<b>1.0000e-005</b>		<b>5.8300e-003</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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

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Fire Pumps and Emergency Generators

Mitigated - San Luis Ranch Project - 2021 Start - San Luis Obispo County APCD Air District, Summer

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

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

Equipment Type	Number
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**11.0 Vegetation**

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Mitigated - San Luis Ranch Project - 2021 Start - San Luis Obispo County APCD Air District, Winter

**Mitigated - San Luis Ranch Project - 2021 Start**  
**San Luis Obispo County APCD Air District, Winter**

**1.0 Project Characteristics**

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**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	25.00	1000sqft	1.30	25,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	3.2	<b>Precipitation Freq (Days)</b>	44
<b>Climate Zone</b>	4			<b>Operational Year</b>	2022
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MW hr)</b>	641.35	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

**1.3 User Entered Comments & Non-Default Data**



Mitigated - San Luis Ranch Project - 2021 Start - San Luis Obispo County APCD Air District, Winter

tblConstEquipMitigation	DPF	No Change	Level 2
tblConstEquipMitigation	DPF	No Change	Level 2
tblConstEquipMitigation	DPF	No Change	Level 2
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	10.00	5.00
tblConstructionPhase	NumDays	200.00	100.00
tblConstructionPhase	NumDays	10.00	5.00
tblLandUse	LotAcreage	0.57	1.30

## Mitigated - San Luis Ranch Project - 2021 Start - San Luis Obispo County APCD Air District, Winter

tblProjectCharacteristics	OperationalYear	2018	2022
tblVehicleTrips	ST_TR	2.46	2.68
tblVehicleTrips	SU_TR	1.05	1.14
tblVehicleTrips	WD_TR	11.03	12.00

## 2.0 Emissions Summary

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Mitigated - San Luis Ranch Project - 2021 Start - San Luis Obispo County APCD Air District, Winter

**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	0.6940	2.0000e-005	2.5600e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		5.4700e-003	5.4700e-003	1.0000e-005		5.8300e-003
Energy	0.0122	0.1105	0.0928	6.6000e-004		8.4000e-003	8.4000e-003		8.4000e-003	8.4000e-003		132.5544	132.5544	2.5400e-003	2.4300e-003	133.3421
Mobile	0.4937	2.0281	5.4653	0.0153	1.4456	0.0161	1.4616	0.3862	0.0151	0.4012		1,542.6266	1,542.6266	0.0632		1,544.2076
<b>Total</b>	<b>1.1998</b>	<b>2.1385</b>	<b>5.5607</b>	<b>0.0160</b>	<b>1.4456</b>	<b>0.0245</b>	<b>1.4700</b>	<b>0.3862</b>	<b>0.0235</b>	<b>0.4096</b>		<b>1,675.1864</b>	<b>1,675.1864</b>	<b>0.0658</b>	<b>2.4300e-003</b>	<b>1,677.5555</b>

**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	0.6940	2.0000e-005	2.5600e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		5.4700e-003	5.4700e-003	1.0000e-005		5.8300e-003
Energy	9.7300e-003	0.0885	0.0743	5.3000e-004		6.7200e-003	6.7200e-003		6.7200e-003	6.7200e-003		106.1402	106.1402	2.0300e-003	1.9500e-003	106.7710
Mobile	0.4937	2.0281	5.4653	0.0153	1.4456	0.0161	1.4616	0.3862	0.0151	0.4012		1,542.6266	1,542.6266	0.0632		1,544.2076
<b>Total</b>	<b>1.1974</b>	<b>2.1165</b>	<b>5.5422</b>	<b>0.0158</b>	<b>1.4456</b>	<b>0.0228</b>	<b>1.4683</b>	<b>0.3862</b>	<b>0.0218</b>	<b>0.4080</b>		<b>1,648.7722</b>	<b>1,648.7722</b>	<b>0.0653</b>	<b>1.9500e-003</b>	<b>1,650.9843</b>



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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.20	1.03	0.33	0.82	0.00	6.87	0.11	0.00	7.16	0.41	0.00	1.58	1.58	0.78	19.75	1.58

### 3.0 Construction Detail

#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Building Construction	Building Construction	1/1/2021	5/20/2021	5	100	
2	Paving	Paving	5/21/2021	5/27/2021	5	5	
3	Architectural Coating	Architectural Coating	5/28/2021	6/3/2021	5	5	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 37,500; Non-Residential Outdoor: 12,500; Striped Parking Area: 0 (Architectural Coating – sqft)

#### OffRoad Equipment

Mitigated - San Luis Ranch Project - 2021 Start - San Luis Obispo County APCD Air District, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Construction	Cranes	1	6.00	231	0.29
Building Construction	Forklifts	1	6.00	89	0.20
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Paving	Cement and Mortar Mixers	1	6.00	9	0.56
Paving	Pavers	1	6.00	130	0.42
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48
Building Construction	Generator Sets	1	8.00	84	0.74
Paving	Paving Equipment	1	8.00	132	0.36
Building Construction	Welders	3	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
Building Construction	7	8.00	4.00	0.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	13.00	0.00	0.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	2.00	0.00	0.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Use Cleaner Engines for Construction Equipment

Use DPF for Construction Equipment

Clean Paved Roads

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**3.2 Building Construction - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.8125	13.6361	12.8994	0.0221		0.6843	0.6843		0.6608	0.6608		2,001.2200	2,001.2200	0.3573		2,010.1517
<b>Total</b>	<b>1.8125</b>	<b>13.6361</b>	<b>12.8994</b>	<b>0.0221</b>		<b>0.6843</b>	<b>0.6843</b>		<b>0.6608</b>	<b>0.6608</b>		<b>2,001.2200</b>	<b>2,001.2200</b>	<b>0.3573</b>		<b>2,010.1517</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0126	0.3756	0.1181	7.8000e-004	0.0186	1.1200e-003	0.0197	5.3500e-003	1.0700e-003	6.4200e-003		82.8014	82.8014	5.1500e-003		82.9303
Worker	0.0364	0.0290	0.2502	6.8000e-004	0.0791	4.9000e-004	0.0796	0.0210	4.5000e-004	0.0214		68.0491	68.0491	2.0700e-003		68.1008
<b>Total</b>	<b>0.0490</b>	<b>0.4046</b>	<b>0.3683</b>	<b>1.4600e-003</b>	<b>0.0977</b>	<b>1.6100e-003</b>	<b>0.0993</b>	<b>0.0263</b>	<b>1.5200e-003</b>	<b>0.0279</b>		<b>150.8505</b>	<b>150.8505</b>	<b>7.2200e-003</b>		<b>151.0311</b>

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**3.2 Building Construction - 2021**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6407	12.0767	13.4786	0.0221		0.3658	0.3658		0.3658	0.3658	0.0000	2,001.2200	2,001.2200	0.3573		2,010.1517
<b>Total</b>	<b>0.6407</b>	<b>12.0767</b>	<b>13.4786</b>	<b>0.0221</b>		<b>0.3658</b>	<b>0.3658</b>		<b>0.3658</b>	<b>0.3658</b>	<b>0.0000</b>	<b>2,001.2200</b>	<b>2,001.2200</b>	<b>0.3573</b>		<b>2,010.1517</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0126	0.3756	0.1181	7.8000e-004	0.0186	1.1200e-003	0.0197	5.3500e-003	1.0700e-003	6.4200e-003		82.8014	82.8014	5.1500e-003		82.9303
Worker	0.0364	0.0290	0.2502	6.8000e-004	0.0791	4.9000e-004	0.0796	0.0210	4.5000e-004	0.0214		68.0491	68.0491	2.0700e-003		68.1008
<b>Total</b>	<b>0.0490</b>	<b>0.4046</b>	<b>0.3683</b>	<b>1.4600e-003</b>	<b>0.0977</b>	<b>1.6100e-003</b>	<b>0.0993</b>	<b>0.0263</b>	<b>1.5200e-003</b>	<b>0.0279</b>		<b>150.8505</b>	<b>150.8505</b>	<b>7.2200e-003</b>		<b>151.0311</b>

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**3.3 Paving - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7739	7.7422	8.8569	0.0135		0.4153	0.4153		0.3830	0.3830		1,296.8664	1,296.8664	0.4111		1,307.1442
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.7739</b>	<b>7.7422</b>	<b>8.8569</b>	<b>0.0135</b>		<b>0.4153</b>	<b>0.4153</b>		<b>0.3830</b>	<b>0.3830</b>		<b>1,296.8664</b>	<b>1,296.8664</b>	<b>0.4111</b>		<b>1,307.1442</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0592	0.0471	0.4066	1.1100e-003	0.1285	8.0000e-004	0.1293	0.0341	7.3000e-004	0.0348		110.5798	110.5798	3.3600e-003		110.6638
<b>Total</b>	<b>0.0592</b>	<b>0.0471</b>	<b>0.4066</b>	<b>1.1100e-003</b>	<b>0.1285</b>	<b>8.0000e-004</b>	<b>0.1293</b>	<b>0.0341</b>	<b>7.3000e-004</b>	<b>0.0348</b>		<b>110.5798</b>	<b>110.5798</b>	<b>3.3600e-003</b>		<b>110.6638</b>

Mitigated - San Luis Ranch Project - 2021 Start - San Luis Obispo County APCD Air District, Winter

**3.3 Paving - 2021**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3195	6.6399	9.8512	0.0135		0.1932	0.1932		0.1932	0.1932	0.0000	1,296.8664	1,296.8664	0.4111		1,307.1442
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.3195</b>	<b>6.6399</b>	<b>9.8512</b>	<b>0.0135</b>		<b>0.1932</b>	<b>0.1932</b>		<b>0.1932</b>	<b>0.1932</b>	<b>0.0000</b>	<b>1,296.8664</b>	<b>1,296.8664</b>	<b>0.4111</b>		<b>1,307.1442</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0592	0.0471	0.4066	1.1100e-003	0.1285	8.0000e-004	0.1293	0.0341	7.3000e-004	0.0348		110.5798	110.5798	3.3600e-003		110.6638
<b>Total</b>	<b>0.0592</b>	<b>0.0471</b>	<b>0.4066</b>	<b>1.1100e-003</b>	<b>0.1285</b>	<b>8.0000e-004</b>	<b>0.1293</b>	<b>0.0341</b>	<b>7.3000e-004</b>	<b>0.0348</b>		<b>110.5798</b>	<b>110.5798</b>	<b>3.3600e-003</b>		<b>110.6638</b>

Mitigated - San Luis Ranch Project - 2021 Start - San Luis Obispo County APCD Air District, Winter

**3.4 Architectural Coating - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	23.1750					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309
<b>Total</b>	<b>23.3939</b>	<b>1.5268</b>	<b>1.8176</b>	<b>2.9700e-003</b>		<b>0.0941</b>	<b>0.0941</b>		<b>0.0941</b>	<b>0.0941</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0193</b>		<b>281.9309</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	9.1000e-003	7.2400e-003	0.0626	1.7000e-004	0.0198	1.2000e-004	0.0199	5.2400e-003	1.1000e-004	5.3600e-003		17.0123	17.0123	5.2000e-004		17.0252
<b>Total</b>	<b>9.1000e-003</b>	<b>7.2400e-003</b>	<b>0.0626</b>	<b>1.7000e-004</b>	<b>0.0198</b>	<b>1.2000e-004</b>	<b>0.0199</b>	<b>5.2400e-003</b>	<b>1.1000e-004</b>	<b>5.3600e-003</b>		<b>17.0123</b>	<b>17.0123</b>	<b>5.2000e-004</b>		<b>17.0252</b>

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**3.4 Architectural Coating - 2021**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	23.1750					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0594	1.3570	1.8324	2.9700e-003		0.0475	0.0475		0.0475	0.0475	0.0000	281.4481	281.4481	0.0193		281.9309
<b>Total</b>	<b>23.2344</b>	<b>1.3570</b>	<b>1.8324</b>	<b>2.9700e-003</b>		<b>0.0475</b>	<b>0.0475</b>		<b>0.0475</b>	<b>0.0475</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0193</b>		<b>281.9309</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	9.1000e-003	7.2400e-003	0.0626	1.7000e-004	0.0198	1.2000e-004	0.0199	5.2400e-003	1.1000e-004	5.3600e-003		17.0123	17.0123	5.2000e-004		17.0252
<b>Total</b>	<b>9.1000e-003</b>	<b>7.2400e-003</b>	<b>0.0626</b>	<b>1.7000e-004</b>	<b>0.0198</b>	<b>1.2000e-004</b>	<b>0.0199</b>	<b>5.2400e-003</b>	<b>1.1000e-004</b>	<b>5.3600e-003</b>		<b>17.0123</b>	<b>17.0123</b>	<b>5.2000e-004</b>		<b>17.0252</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.4937	2.0281	5.4653	0.0153	1.4456	0.0161	1.4616	0.3862	0.0151	0.4012		1,542.6266	1,542.6266	0.0632		1,544.2076
Unmitigated	0.4937	2.0281	5.4653	0.0153	1.4456	0.0161	1.4616	0.3862	0.0151	0.4012		1,542.6266	1,542.6266	0.0632		1,544.2076

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	300.00	67.00	28.50	518,513	518,513
Total	300.00	67.00	28.50	518,513	518,513

**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
General Office Building	13.00	5.00	5.00	33.00	48.00	19.00	77	19	4

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	0.575581	0.029595	0.198288	0.120539	0.026172	0.006482	0.012911	0.019591	0.002354	0.001214	0.005068	0.000784	0.001422

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**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

Exceed Title 24

	ROG	NOx	CO	SO2	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	9.7300e-003	0.0885	0.0743	5.3000e-004		6.7200e-003	6.7200e-003		6.7200e-003	6.7200e-003		106.1402	106.1402	2.0300e-003	1.9500e-003	106.7710
NaturalGas Unmitigated	0.0122	0.1105	0.0928	6.6000e-004		8.4000e-003	8.4000e-003		8.4000e-003	8.4000e-003		132.5544	132.5544	2.5400e-003	2.4300e-003	133.3421

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**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Office Building	1126.71	0.0122	0.1105	0.0928	6.6000e-004		8.4000e-003	8.4000e-003		8.4000e-003	8.4000e-003		132.5544	132.5544	2.5400e-003	2.4300e-003	133.3421
<b>Total</b>		<b>0.0122</b>	<b>0.1105</b>	<b>0.0928</b>	<b>6.6000e-004</b>		<b>8.4000e-003</b>	<b>8.4000e-003</b>		<b>8.4000e-003</b>	<b>8.4000e-003</b>		<b>132.5544</b>	<b>132.5544</b>	<b>2.5400e-003</b>	<b>2.4300e-003</b>	<b>133.3421</b>

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Office Building	0.902192	9.7300e-003	0.0885	0.0743	5.3000e-004		6.7200e-003	6.7200e-003		6.7200e-003	6.7200e-003		106.1402	106.1402	2.0300e-003	1.9500e-003	106.7710
<b>Total</b>		<b>9.7300e-003</b>	<b>0.0885</b>	<b>0.0743</b>	<b>5.3000e-004</b>		<b>6.7200e-003</b>	<b>6.7200e-003</b>		<b>6.7200e-003</b>	<b>6.7200e-003</b>		<b>106.1402</b>	<b>106.1402</b>	<b>2.0300e-003</b>	<b>1.9500e-003</b>	<b>106.7710</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

Mitigated - San Luis Ranch Project - 2021 Start - San Luis Obispo County APCD Air District, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.6940	2.0000e-005	2.5600e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		5.4700e-003	5.4700e-003	1.0000e-005		5.8300e-003
Unmitigated	0.6940	2.0000e-005	2.5600e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		5.4700e-003	5.4700e-003	1.0000e-005		5.8300e-003

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.1587					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.5350					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.4000e-004	2.0000e-005	2.5600e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		5.4700e-003	5.4700e-003	1.0000e-005		5.8300e-003
<b>Total</b>	<b>0.6940</b>	<b>2.0000e-005</b>	<b>2.5600e-003</b>	<b>0.0000</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>		<b>5.4700e-003</b>	<b>5.4700e-003</b>	<b>1.0000e-005</b>		<b>5.8300e-003</b>

Mitigated - San Luis Ranch Project - 2021 Start - San Luis Obispo County APCD Air District, Winter

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.1587					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.5350					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.4000e-004	2.0000e-005	2.5600e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		5.4700e-003	5.4700e-003	1.0000e-005		5.8300e-003
<b>Total</b>	<b>0.6940</b>	<b>2.0000e-005</b>	<b>2.5600e-003</b>	<b>0.0000</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>		<b>5.4700e-003</b>	<b>5.4700e-003</b>	<b>1.0000e-005</b>		<b>5.8300e-003</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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

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Fire Pumps and Emergency Generators

Mitigated - San Luis Ranch Project - 2021 Start - San Luis Obispo County APCD Air District, Winter

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

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

Equipment Type	Number
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**11.0 Vegetation**

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Mitigated - San Luis Ranch Project - 2021 Start - San Luis Obispo County APCD Air District, Summary Report

**Mitigated - San Luis Ranch Project - 2021 Start**  
**San Luis Obispo County APCD, Summary Report**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	25.00	1000sqft	1.30	25,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	3.2	<b>Precipitation Freq (Days)</b>	44
<b>Climate Zone</b>	4			<b>Operational Year</b>	2022
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MW hr)</b>	641.35	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

**1.3 User Entered Comments**

Only CalEEMod defaults were used.

Mitigated - San Luis Ranch Project - 2021 Start - San Luis Obispo County APCD Air District, Summary Report

Project Characteristics -

Land Use - Land use values from buildout and phasing in Specific Plan Section 7.7. Includes portions of Phase 5.

Construction Phase - Demolition, site prep and grading would be completed 2018-2020 for Phase 5.

Off-road Equipment -

Demolition - Building sf estimated using Google Earth

Grading - Soil import completed in 2020

Architectural Coating - Per MM AQ-2

Vehicle Trips - Trip generation rate based on Omni-Means 2016 Traffic Impact Study.

Construction Off-road Equipment Mitigation - Per MM AQ-2

Mobile Land Use Mitigation - Trip reductions from project's density, diversity, and access to alternative transportation accounted for in trip generation rates.

Energy Mitigation - Per MM AQ-3

Water Mitigation -

## **2.0 Peak Daily Emissions**

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### **Peak Daily Construction Emissions**

#### **Peak Daily Construction Emissions**



Mitigated - San Luis Ranch Project - 2021 Start - San Luis Obispo County APCD Air District, Summary Report

Year	Phase	Unmitigated						Mitigated					
		ROG	NOX	CO	SO2	PM10	PM2.5	ROG	NOX	CO	SO2	PM10	PM2.5
		lb/day											
2021	Building Construction	1.8615 W	14.0406 W	13.2677 W	0.0236 S	0.7836 W	0.6887 W	0.6898 W	12.4813 W	13.8469 W	0.0236 S	0.4650 W	0.3936 W
2021	Paving	0.8330 W	7.7893 W	9.2759 S	0.0147 S	0.5446 S	0.4178 S	0.3787 W	6.6869 W	10.2702 S	0.0147 S	0.3225 S	0.2280 S
2021	Architectural Coating	23.4030 W	1.5341 W	1.8820 S	3.1500e-003 S	0.1140 S	0.0995 S	23.2435 W	1.3642 W	1.8969 S	3.1500e-003 S	0.0674 S	0.0529 S
	Peak Daily Total	23.4030 W	14.0406 W	13.2677 W	0.0236 S	0.7836 W	0.6887 W	23.2435 W	12.4813 W	13.8469 W	0.0236 S	0.4650 W	0.3936 W
	Air District Threshold												
	Exceed Significance?												

**Peak Daily Operational Emissions**

**Peak Daily Operational Emissions**

	Operational Activity	Unmitigated						Mitigated					
		ROG	NOX	CO	SO2	PM10	PM2.5	ROG	NOX	CO	SO2	PM10	PM2.5
		lb/day											
On-Site	Area	0.6940 S	2.0000e-005 S	2.5600e-003 S	0.0000 S	1.0000e-005 S	1.0000e-005 S	0.6940 S	2.0000e-005 S	2.5600e-003 S	0.0000 S	1.0000e-005 S	1.0000e-005 S
On-Site	Energy	0.0122 S	0.1105 S	0.0928 S	6.6000e-004 S	8.4000e-003 S	8.4000e-003 S	9.7300e-003 S	0.0885 S	0.0743 S	5.3000e-004 S	6.7200e-003 S	6.7200e-003 S
Off-Site	Mobile	0.5107 S	2.0281 W	5.4653 W	0.0159 S	1.4616 W	0.4012 W	0.5107 S	2.0281 W	5.4653 W	0.0159 S	1.4616 W	0.4012 W
	Peak Daily Total	1.2168 S	2.1385 W	5.5607 W	0.0166 S	1.4700 W	0.4096 W	1.2144 S	2.1165 W	5.5422 W	0.0165 S	1.4683 W	0.4080 W
	Air District Threshold												
	Exceed Significance?												

**3.0 Annual GHG Emissions**

**Annual GHG**

**Annual GHG**



**Greenhouse Gas Emission Worksheet**  
**N2O Mobile Emissions**

San Luis Ranch Project - Mitigated

From CalEEMod Vehicle Fleet Mix Output:

Annual VMT: 13,081,557

Vehicle Type	Percent Type	CH4 Emission Factor (g/mile)*	CH4 Emission (g/mile)**	N2O Emission Factor (g/mile)*	N2O Emission (g/mile)**
Light Auto	55.0%	0.04	0.022	0.04	0.022
Light Truck < 3750 lbs	3.4%	0.05	0.0017	0.06	0.00204
Light Truck 3751-5750 lbs	19.9%	0.05	0.00995	0.06	0.01194
Med Truck 5751-8500 lbs	13.2%	0.12	0.01584	0.2	0.0264
Lite-Heavy Truck 8501-10,000 lbs	3.3%	0.12	0.00396	0.2	0.0066
Lite-Heavy Truck 10,001-14,000 lbs	0.8%	0.09	0.00072	0.125	0.001
Med-Heavy Truck 14,001-33,000 lbs	1.3%	0.06	0.00078	0.05	0.00065
Heavy-Heavy Truck 33,001-60,000 lbs	1.9%	0.06	0.00114	0.05	0.00095
Other Bus	0.2%	0.06	0.00012	0.05	0.0001
Urban Bus	0.1%	0.06	0.000066	0.05	0.000055
Motorcycle	0.6%	0.09	0.00054	0.01	0.00006
School Bus	0.1%	0.06	0.000048	0.05	0.00004
Motor Home	0.2%	0.09	0.000162	0.125	0.000225
<b>Total</b>	<b>100.0%</b>		<b>0.057026</b>		<b>0.07206</b>

**Total Emissions (metric tons) =**  
**Emission Factor by Vehicle Mix (g/mi) x Annual VMT(mi) x 0.000001 metric tons/g**

**Conversion to Carbon Dioxide Equivalency (CO2e) Units based on Global Warming Potential (GWP)\*\*\*\***

CH4 21 GWP  
 N2O 310 GWP  
 1 ton (short, US) = 0.90718474 metric ton

**Annual Mobile Emissions:**

	Total Emissions	Total CO2e units
N2O Emissions:	0.9427 metric tons N2O	292.22 metric tons CO2e
<b>Project Total:</b>	<b>292.22 metric tons CO2e</b>	

**References**

\* from Table C.4: Methane and Nitrous Oxide Emission Factors for Mobile Sources by Vehicle and Fuel Type (g/mile).  
 in California Climate Action Registry General Reporting Protocol, Reporting Entity-Wide Greenhouse Gas Emissions, Version 3.1, January 2009.  
 Assume Model year 2000-present, gasoline fueled.  
 \*\* Source: California Climate Action Registry General Reporting Protocol, Reporting Entity-Wide Greenhouse Gas Emissions, Version 3.1, January 2009.  
 \*\*\* From CalEEMod results for mobile sources  
 \*\*\*\*GWPs are based on the 2007 IPCC's Fourth Assessment Report (AR4), and are consistent with 2014 CARB's Scoping Plan Update