



November 19, 2021

Ms. Caroline Legrand  
The Ridge Wellness Center  
21352 Rambla Vista  
Malibu, CA 90265

**SUBJECT: RIDGE RANCH AIR QUALITY & GREENHOUSE GAS ASSESSMENT**

Dear Ms. Caroline Legrand:

Urban Crossroads, Inc. is pleased to provide the following Air Quality & Greenhouse Gas Assessment (referred to as Memo) for the Ridge Ranch development Project (Project) which is located at 56475 Apple Canyon Road in the County of Riverside.

**PROJECT DESCRIPTION**

The Project will provide a recreation and education-based healing ranch with 36 guest accommodations with the main goal of providing guests the opportunity to reconnect with nature. It is intended as a refuge for all who wish to educate themselves on a healthier lifestyle and gain more knowledge on all things nature, environment, food and ecosystems. Specifics on the proposed Project buildings and uses are provided below:

- |   |                                      |
|---|--------------------------------------|
| 1. Guest Cabins 16,767 square feet (SF) <ul style="list-style-type: none"><li>• 30 rooms</li><li>• 6 tents x 300 SF</li><li>• Storage</li></ul>           | 6. Wellness Basecamp 3,409 SF        |
| 2. Common Areas Building 4,373 SF <ul style="list-style-type: none"><li>• Lounge</li><li>• Commercial Kitchen</li><li>• Dining (48 seats)</li></ul>       | 7. Admin & Storage Building 1,289 SF |
| 3. Wellness Cabins 3,429 SF   | <b>Totaling 31,331 SF</b>            |
| 4. Main Greenhouse 972 SF <ul style="list-style-type: none"><li>• Herbs/citrus/flowers</li><li>• Interactive area for guests</li></ul>                    |                                      |
| 5. Activity Hub Building 1,092 SF <ul style="list-style-type: none"><li>• Juice Bar/Tea Station</li><li>• Stretching</li><li>• Outdoor Lap Pool</li></ul> |                                      |

## **AIR QUALITY REGIONAL EMISSIONS THRESHOLDS**

The South Coast Air Quality Management District has developed regional significance thresholds for criteria pollutants, as summarized in Table 1 (1). The SCAQMD's California Environmental Quality Act (CEQA) Air Quality Significance Thresholds (April 2019) indicate that any projects in the SCAB with daily emissions that exceed any of the indicated thresholds should be considered as having an individually and cumulatively significant air quality impact.

**TABLE 1: MAXIMUM DAILY REGIONAL EMISSIONS THRESHOLDS**

<b>Pollutant</b>	<b>Construction</b>	<b>Operations</b>
NO <sub>x</sub>	100 lbs/day	55 lbs/day
VOC	75 lbs/day	55 lbs/day
PM <sub>10</sub>	150 lbs/day	150 lbs/day
PM <sub>2.5</sub>	55 lbs/day	55 lbs/day
SO <sub>x</sub>	150 lbs/day	150 lbs/day
CO	550 lbs/day	550 lbs/day
Lead	3 lbs/day	3 lbs/day

lbs/day – Pounds Per Day

Source: Regional Thresholds presented in this table are based on the SCAQMD Air Quality Significance Thresholds, March 2015

### ***CalEEMod***

Land uses such as the Project affect air quality through construction-source and operational-source emissions.

In May 2021, the SCAQMD, in conjunction with the California Air Pollution Control Officers Association (CAPCOA) and other California air districts, released the latest version of the CalEEMod Version 2020.4.0. The purpose of this model is to calculate construction-source and operational-source criteria pollutant (VOCs, NO<sub>x</sub>, SO<sub>x</sub>, CO, PM<sub>10</sub>, and PM<sub>2.5</sub>) and GHG emissions from direct and indirect sources (2). Accordingly, the latest version of CalEEMod has been used for this Project to determine construction and operational air quality emissions. Output from the model runs for both construction and operational activity are provided in Attachment A.

### ***Regional Construction Emissions Summary***

The estimated maximum daily construction emissions without mitigation are summarized on Table 2. Detailed model outputs are presented in Attachment A to this Memo. Under the assumed scenarios, emissions resulting from the Project construction would not exceed thresholds established by the SCAQMD for emissions of any criteria pollutant. Project construction-source emissions impacts would therefore be less-than-significant.

**TABLE 2: PROJECT CONSTRUCTION EMISSIONS**

Year	Emissions (lbs/day)					
	VOC	NO <sub>x</sub>	CO	SO <sub>x</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>
Summer						
2021	8.27	87.04	54.20	0.11	30.40	17.29
2022	11.67	42.58	78.17	0.21	15.55	5.31
Winter						
2021	8.26	87.04	53.76	0.10	30.40	17.29
2022	11.49	43.31	70.02	0.20	15.55	5.31
<b>Maximum Daily Emissions</b>	<b>11.67</b>	<b>87.04</b>	<b>78.17</b>	<b>0.21</b>	<b>30.40</b>	<b>17.29</b>
SCAQMD Regional Threshold	75	100	550	150	150	55
<b>Threshold Exceeded?</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>

***Project Regional Operational Air Quality Emissions***

The estimated operation-source emissions from the Project are summarized on Table 3. Detailed model outputs are presented in Memo Attachment A. As shown on Table 3, operational-source emissions would not exceed the applicable SCAQMD regional thresholds for emissions of any criteria pollutant.

**TABLE 3: PROJECT OPERATIONAL EMISSIONS**

Source	Emissions (lbs/day)					
	VOC	NO <sub>x</sub>	CO	SO <sub>x</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>
Summer						
Area Source	0.78	0.00	0.00	0.00	0.00	0.00
Energy Source	0.06	0.50	0.42	0.00	0.04	0.04
Mobile Source	0.95	1.29	8.61	0.02	1.79	0.49
<b>Total Maximum Daily Emissions</b>	<b>1.79</b>	<b>1.79</b>	<b>9.03</b>	<b>0.02</b>	<b>1.83</b>	<b>0.53</b>
SCAQMD Regional Threshold	55	55	550	150	150	55
<b>Threshold Exceeded?</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>
Winter						
Area Source	0.78	0.00	0.00	0.00	0.00	0.00
Energy Source	0.06	0.50	0.42	0.00	0.04	0.04

Source	Emissions (lbs/day)					
	VOC	NO <sub>x</sub>	CO	SO <sub>x</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>
Mobile Source	0.81	1.36	7.65	0.02	1.79	0.49
<b>Total Maximum Daily Emissions</b>	<b>1.65</b>	<b>1.86</b>	<b>8.07</b>	<b>0.02</b>	<b>1.83</b>	<b>0.53</b>
SCAQMD Regional Threshold	55	55	550	150	150	55
<b>Threshold Exceeded?</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>

## **PROJECT GHG ANALYSIS**

### **GHG EMISSIONS THRESHOLDS**

The County of Riverside's Climate Action Plan (CAP) was designed under the premise that the County of Riverside, and the community it represents, is uniquely capable of addressing emissions associated with sources under the County of Riverside's jurisdiction, and that the County of Riverside's emission reduction efforts should coordinate with the state strategies of reducing emissions in order to accomplish these reductions in an efficient and cost-effective manner.

The CAP Update (November 2019) establishes GHG emission reduction programs and regulations that correlate with and support evolving State GHG emissions reduction goals and strategies. The CAP Update includes reduction targets for year 2030 and year 2050. These reduction targets require the County of Riverside to reduce emissions by at least 525,511 MTCO<sub>2</sub>e below the adjusted business as usual scenario by 2030 and at least 2,982,948 MT CO<sub>2</sub>e below the adjusted business as usual scenario by 2050 (3).

To evaluate consistency with the CAP Update, the County of Riverside has implemented CAP Update Screening Tables (Screening Tables) to aid in measuring the reduction of GHG emissions attributable to certain design and construction measures incorporated in development projects. To this end, the Screening Tables establish categories of GHG Implementation Measures. Under each Implementation Measure category, mitigation or project design features (collectively "features") are assigned point values that correspond to the minimum GHG emissions reduction that would result from each feature. Projects that yield at least 100 points are considered to be consistent with the GHG emissions reduction quantities anticipated in the County of Riverside's GHG Technical Report and support the GHG emissions reduction targets established under the CAP Update. The potential for such projects to generate direct or indirect GHG emissions that would result in a significant impact on the environment; or conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases would be considered less-than-significant.

The CAP Update identifies a two-step approach in evaluating GHG emissions. First, a screening threshold of 3,000 MTCO<sub>2</sub>e/yr is used to determine if additional analysis is required. Projects that exceed the 3,000 MTCO<sub>2</sub>e/yr will be required to quantify and disclose the anticipated GHG emissions then either 1) demonstrates GHG emissions at project buildout year levels of efficiency and includes project design features and/or MMs to reduce GHG emissions or 2) garner 100 points through the Screening Tables. Projects that garner at least 100 points (equivalent to an approximate 49% reduction in GHG emissions) are determined to be consistent with the reduction quantities anticipated in the County's GHG Technical Report, and consequently would be consistent with the CAP Update. As such, projects that achieve a total of 100 points or more are considered to have a less than significant individual and cumulative impact on GHG emissions.

**Project GHG Emissions**

As shown on Table 4, the Project would generate approximately 668.88 MTCO<sub>2</sub>e/yr. As shown in Table 4, project GHG emissions would not exceed the 3,000 MTCO<sub>2</sub>e/yr screening threshold. Project GHG emissions therefore would be less than significant.

**TABLE 4: PROJECT GHG EMISSIONS**

Source	Emissions (MT/yr)			
	CO <sub>2</sub>	CH <sub>4</sub>	N <sub>2</sub> O	Total CO <sub>2</sub> e
Annual construction-related emissions amortized over 30 years	83.02	8.42E-03	4.16E-03	84.47
Area Source	1.76E-03	0.00	0.00	1.88E-03
Energy Source	196.37	0.01	2.81E-03	197.46
Mobile Source	284.71	0.02	0.02	289.59
Waste Source	4.61	0.27	0.00	11.42
Water Usage Source	84.55	0.04	1.56E-03	85.94
<b>Total CO<sub>2</sub>e (All Sources)</b>	<b>668.88</b>			
<b>Threshold</b>	<b>3,000</b>			
<b>Significant?</b>	<b>NO</b>			

**CONCLUSION**

The results of the analysis indicate that the Project would not result in a significant air quality or greenhouse gas impact relative to applicable numeric thresholds utilized by the County of Riverside.

If you have any questions, please contact me at (949) 660-1994.

Respectfully submitted,

URBAN CROSSROADS, INC.



Haseeb Qureshi,  
Associate Principal



Michael Tirohn,  
Environmental Scientist

## REFERENCES

1. **South Coast Air Quality Management District (SCAQMD)**. SCAQMD Air Quality Significance Thresholds. [Online] <http://www.aqmd.gov/docs/default-source/ceqa/handbook/scaqmd-air-quality-significance-thresholds.pdf?sfvrsn=2>.
2. **California Air Pollution Control Officers Association (CAPCOA)**. California Emissions Estimator Model (CalEEMod). [Online] [www.caleemod.com](http://www.caleemod.com).
3. **County of Riverside**. County of Riverside Climate Action Plan Update. [Online] November 2019. [https://planning.rctlma.org/Portals/14/CAP/2019/2019\\_CAP\\_Update\\_Full.pdf](https://planning.rctlma.org/Portals/14/CAP/2019/2019_CAP_Update_Full.pdf).

**ATTACHMENT A:**

**CALEEMOD EMISSIONS MODEL OUTPUT**



13918 Ridge Ranch - Riverside-South Coast County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**13918 Ridge Ranch  
Riverside-South Coast County, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
City Park	34.91	Acre	34.91	1,520,679.60	0
Hotel	36.00	Room	1.20	31,331.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Rural	<b>Wind Speed (m/s)</b>	2.4	<b>Precipitation Freq (Days)</b>	28
<b>Climate Zone</b>	10			<b>Operational Year</b>	2022
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MWhr)</b>	390.98	<b>CH4 Intensity (lb/MWhr)</b>	0.033	<b>N2O Intensity (lb/MWhr)</b>	0.004

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

- Project Characteristics -
- Land Use - Building SF from PD
- Construction Phase - Construction estimated to complete in 2022.
- Grading - Assumes grading/site prep will occur for entire site.
- Vehicle Trips - Park use modeled only for water usage and non-mobile sources for all other areas.
- Construction Off-road Equipment Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	30.00	45.00
tblConstructionPhase	NumDays	75.00	45.00
tblConstructionPhase	NumDays	740.00	260.00

13918 Ridge Ranch - Riverside-South Coast County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

tblConstructionPhase	NumDays	55.00	260.00
tblConstructionPhase	NumDays	55.00	65.00
tblGrading	AcresOfGrading	135.00	36.11
tblGrading	AcresOfGrading	67.50	36.11
tblLandUse	LandUseSquareFeet	52,272.00	31,331.00
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblVehicleTrips	ST_TR	1.96	0.00
tblVehicleTrips	SU_TR	2.19	0.00
tblVehicleTrips	WD_TR	0.78	0.00

**2.0 Emissions Summary**

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13918 Ridge Ranch - Riverside-South Coast County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**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					
2021	8.2725	87.0383	54.1993	0.1054	26.3623	4.0328	30.3951	13.5764	3.7102	17.2865	0.0000	10,233.77 98	10,233.77 98	3.1478	0.0133	10,316.43 86
2022	11.6734	42.5805	78.1678	0.2135	13.8583	1.6939	15.5522	3.7171	1.5883	5.3055	0.0000	21,623.98 40	21,623.98 40	1.6442	1.0768	21,985.97 89
<b>Maximum</b>	<b>11.6734</b>	<b>87.0383</b>	<b>78.1678</b>	<b>0.2135</b>	<b>26.3623</b>	<b>4.0328</b>	<b>30.3951</b>	<b>13.5764</b>	<b>3.7102</b>	<b>17.2865</b>	<b>0.0000</b>	<b>21,623.98 40</b>	<b>21,623.98 40</b>	<b>3.1478</b>	<b>1.0768</b>	<b>21,985.97 89</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					
2021	8.2725	87.0383	54.1993	0.1054	26.3623	4.0328	30.3951	13.5764	3.7102	17.2865	0.0000	10,233.77 98	10,233.77 98	3.1478	0.0133	10,316.43 86
2022	11.6734	42.5805	78.1678	0.2135	13.8583	1.6939	15.5522	3.7171	1.5883	5.3055	0.0000	21,623.98 40	21,623.98 40	1.6442	1.0768	21,985.97 89
<b>Maximum</b>	<b>11.6734</b>	<b>87.0383</b>	<b>78.1678</b>	<b>0.2135</b>	<b>26.3623</b>	<b>4.0328</b>	<b>30.3951</b>	<b>13.5764</b>	<b>3.7102</b>	<b>17.2865</b>	<b>0.0000</b>	<b>21,623.98 40</b>	<b>21,623.98 40</b>	<b>3.1478</b>	<b>1.0768</b>	<b>21,985.97 89</b>



13918 Ridge Ranch - Riverside-South Coast County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**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	0.7790	7.0000e-005	7.2500e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0155	0.0155	4.0000e-005		0.0165
Energy	0.0550	0.5004	0.4203	3.0000e-003		0.0380	0.0380		0.0380	0.0380		600.4646	600.4646	0.0115	0.0110	604.0328
Mobile	0.9545	1.2919	8.6119	0.0187	1.7690	0.0174	1.7865	0.4721	0.0164	0.4885		1,911.7599	1,911.7599	0.0995	0.0929	1,941.9355
<b>Total</b>	<b>1.7885</b>	<b>1.7923</b>	<b>9.0395</b>	<b>0.0217</b>	<b>1.7690</b>	<b>0.0555</b>	<b>1.8245</b>	<b>0.4721</b>	<b>0.0544</b>	<b>0.5265</b>		<b>2,512.2400</b>	<b>2,512.2400</b>	<b>0.1110</b>	<b>0.1039</b>	<b>2,545.9848</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	0.7790	7.0000e-005	7.2500e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0155	0.0155	4.0000e-005		0.0165
Energy	0.0550	0.5004	0.4203	3.0000e-003		0.0380	0.0380		0.0380	0.0380		600.4646	600.4646	0.0115	0.0110	604.0328
Mobile	0.9545	1.2919	8.6119	0.0187	1.7690	0.0174	1.7865	0.4721	0.0164	0.4885		1,911.7599	1,911.7599	0.0995	0.0929	1,941.9355
<b>Total</b>	<b>1.7885</b>	<b>1.7923</b>	<b>9.0395</b>	<b>0.0217</b>	<b>1.7690</b>	<b>0.0555</b>	<b>1.8245</b>	<b>0.4721</b>	<b>0.0544</b>	<b>0.5265</b>		<b>2,512.2400</b>	<b>2,512.2400</b>	<b>0.1110</b>	<b>0.1039</b>	<b>2,545.9848</b>

13918 Ridge Ranch - Riverside-South Coast County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

	ROG	NOx	CO	SO2	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	Site Preparation	Site Preparation	11/1/2021	12/31/2021	5	45	
2	Grading	Grading	11/1/2021	12/31/2021	5	45	
3	Building Construction	Building Construction	1/1/2022	12/31/2022	5	260	
4	Paving	Paving	1/1/2022	12/31/2022	5	260	
5	Architectural Coating	Architectural Coating	10/1/2022	12/31/2022	5	65	

**Acres of Grading (Site Preparation Phase): 36.11**

**Acres of Grading (Grading Phase): 36.11**

**Acres of Paving: 0**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 46,997; Non-Residential Outdoor: 15,666; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

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

13918 Ridge Ranch - Riverside-South Coast County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

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	19.80	7.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	19.80	7.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	652.00	254.00	0.00	19.80	7.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	19.80	7.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	130.00	0.00	0.00	19.80	7.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

13918 Ridge Ranch - Riverside-South Coast County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.2 Site Preparation - 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					
Fugitive Dust					18.9173	0.0000	18.9173	10.0226	0.0000	10.0226			0.0000			0.0000
Off-Road	3.8882	40.4971	21.1543	0.0380		2.0445	2.0445		1.8809	1.8809		3,685.6569	3,685.6569	1.1920		3,715.4573
<b>Total</b>	<b>3.8882</b>	<b>40.4971</b>	<b>21.1543</b>	<b>0.0380</b>	<b>18.9173</b>	<b>2.0445</b>	<b>20.9617</b>	<b>10.0226</b>	<b>1.8809</b>	<b>11.9035</b>		<b>3,685.6569</b>	<b>3,685.6569</b>	<b>1.1920</b>		<b>3,715.4573</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	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0915	0.0670	1.0263	2.5300e-003	0.2709	1.4100e-003	0.2724	0.0719	1.3000e-003	0.0731		256.3008	256.3008	6.1300e-003	6.3000e-003	258.3322
<b>Total</b>	<b>0.0915</b>	<b>0.0670</b>	<b>1.0263</b>	<b>2.5300e-003</b>	<b>0.2709</b>	<b>1.4100e-003</b>	<b>0.2724</b>	<b>0.0719</b>	<b>1.3000e-003</b>	<b>0.0731</b>		<b>256.3008</b>	<b>256.3008</b>	<b>6.1300e-003</b>	<b>6.3000e-003</b>	<b>258.3322</b>



13918 Ridge Ranch - Riverside-South Coast County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.2 Site Preparation - 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					
Fugitive Dust					18.9173	0.0000	18.9173	10.0226	0.0000	10.0226			0.0000			0.0000
Off-Road	3.8882	40.4971	21.1543	0.0380		2.0445	2.0445		1.8809	1.8809	0.0000	3,685.6569	3,685.6569	1.1920		3,715.4573
<b>Total</b>	<b>3.8882</b>	<b>40.4971</b>	<b>21.1543</b>	<b>0.0380</b>	<b>18.9173</b>	<b>2.0445</b>	<b>20.9617</b>	<b>10.0226</b>	<b>1.8809</b>	<b>11.9035</b>	<b>0.0000</b>	<b>3,685.6569</b>	<b>3,685.6569</b>	<b>1.1920</b>		<b>3,715.4573</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	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0915	0.0670	1.0263	2.5300e-003	0.2709	1.4100e-003	0.2724	0.0719	1.3000e-003	0.0731		256.3008	256.3008	6.1300e-003	6.3000e-003	258.3322
<b>Total</b>	<b>0.0915</b>	<b>0.0670</b>	<b>1.0263</b>	<b>2.5300e-003</b>	<b>0.2709</b>	<b>1.4100e-003</b>	<b>0.2724</b>	<b>0.0719</b>	<b>1.3000e-003</b>	<b>0.0731</b>		<b>256.3008</b>	<b>256.3008</b>	<b>6.1300e-003</b>	<b>6.3000e-003</b>	<b>258.3322</b>

13918 Ridge Ranch - Riverside-South Coast County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.3 Grading - 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					
Fugitive Dust					6.8731	0.0000	6.8731	3.4021	0.0000	3.4021			0.0000			0.0000
Off-Road	4.1912	46.3998	30.8785	0.0620		1.9853	1.9853		1.8265	1.8265		6,007.043 4	6,007.043 4	1.9428		6,055.613 4
<b>Total</b>	<b>4.1912</b>	<b>46.3998</b>	<b>30.8785</b>	<b>0.0620</b>	<b>6.8731</b>	<b>1.9853</b>	<b>8.8584</b>	<b>3.4021</b>	<b>1.8265</b>	<b>5.2286</b>		<b>6,007.043 4</b>	<b>6,007.043 4</b>	<b>1.9428</b>		<b>6,055.613 4</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	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1017	0.0744	1.1403	2.8100e-003	0.3010	1.5600e-003	0.3026	0.0798	1.4400e-003	0.0813		284.7787	284.7787	6.8100e-003	7.0000e-003	287.0357
<b>Total</b>	<b>0.1017</b>	<b>0.0744</b>	<b>1.1403</b>	<b>2.8100e-003</b>	<b>0.3010</b>	<b>1.5600e-003</b>	<b>0.3026</b>	<b>0.0798</b>	<b>1.4400e-003</b>	<b>0.0813</b>		<b>284.7787</b>	<b>284.7787</b>	<b>6.8100e-003</b>	<b>7.0000e-003</b>	<b>287.0357</b>

13918 Ridge Ranch - Riverside-South Coast County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.3 Grading - 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					
Fugitive Dust					6.8731	0.0000	6.8731	3.4021	0.0000	3.4021			0.0000			0.0000
Off-Road	4.1912	46.3998	30.8785	0.0620		1.9853	1.9853		1.8265	1.8265	0.0000	6,007.043 4	6,007.043 4	1.9428		6,055.613 4
<b>Total</b>	<b>4.1912</b>	<b>46.3998</b>	<b>30.8785</b>	<b>0.0620</b>	<b>6.8731</b>	<b>1.9853</b>	<b>8.8584</b>	<b>3.4021</b>	<b>1.8265</b>	<b>5.2286</b>	<b>0.0000</b>	<b>6,007.043 4</b>	<b>6,007.043 4</b>	<b>1.9428</b>		<b>6,055.613 4</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	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1017	0.0744	1.1403	2.8100e-003	0.3010	1.5600e-003	0.3026	0.0798	1.4400e-003	0.0813		284.7787	284.7787	6.8100e-003	7.0000e-003	287.0357
<b>Total</b>	<b>0.1017</b>	<b>0.0744</b>	<b>1.1403</b>	<b>2.8100e-003</b>	<b>0.3010</b>	<b>1.5600e-003</b>	<b>0.3026</b>	<b>0.0798</b>	<b>1.4400e-003</b>	<b>0.0813</b>		<b>284.7787</b>	<b>284.7787</b>	<b>6.8100e-003</b>	<b>7.0000e-003</b>	<b>287.0357</b>

13918 Ridge Ranch - Riverside-South Coast County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.4 Building Construction - 2022**

**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	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.3336	2,554.3336	0.6120		2,569.6322
<b>Total</b>	<b>1.7062</b>	<b>15.6156</b>	<b>16.3634</b>	<b>0.0269</b>		<b>0.8090</b>	<b>0.8090</b>		<b>0.7612</b>	<b>0.7612</b>		<b>2,554.3336</b>	<b>2,554.3336</b>	<b>0.6120</b>		<b>2,569.6322</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	0.0000
Vendor	0.4450	11.8278	3.9073	0.0523	1.8617	0.1768	2.0385	0.5360	0.1691	0.7051		5,540.9250	5,540.9250	0.0577	0.8210	5,787.0237
Worker	3.0648	2.1300	33.9523	0.0888	9.8140	0.0478	9.8618	2.6024	0.0440	2.6465		9,031.1548	9,031.1548	0.1982	0.2093	9,098.4730
<b>Total</b>	<b>3.5098</b>	<b>13.9578</b>	<b>37.8596</b>	<b>0.1411</b>	<b>11.6757</b>	<b>0.2246</b>	<b>11.9004</b>	<b>3.1384</b>	<b>0.2132</b>	<b>3.3516</b>		<b>14,572.0798</b>	<b>14,572.0798</b>	<b>0.2559</b>	<b>1.0303</b>	<b>14,885.4967</b>

13918 Ridge Ranch - Riverside-South Coast County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.4 Building Construction - 2022**

**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	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322
<b>Total</b>	<b>1.7062</b>	<b>15.6156</b>	<b>16.3634</b>	<b>0.0269</b>		<b>0.8090</b>	<b>0.8090</b>		<b>0.7612</b>	<b>0.7612</b>	<b>0.0000</b>	<b>2,554.3336</b>	<b>2,554.3336</b>	<b>0.6120</b>		<b>2,569.6322</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	0.0000
Vendor	0.4450	11.8278	3.9073	0.0523	1.8617	0.1768	2.0385	0.5360	0.1691	0.7051		5,540.9250	5,540.9250	0.0577	0.8210	5,787.0237
Worker	3.0648	2.1300	33.9523	0.0888	9.8140	0.0478	9.8618	2.6024	0.0440	2.6465		9,031.1548	9,031.1548	0.1982	0.2093	9,098.4730
<b>Total</b>	<b>3.5098</b>	<b>13.9578</b>	<b>37.8596</b>	<b>0.1411</b>	<b>11.6757</b>	<b>0.2246</b>	<b>11.9004</b>	<b>3.1384</b>	<b>0.2132</b>	<b>3.3516</b>		<b>14,572.0798</b>	<b>14,572.0798</b>	<b>0.2559</b>	<b>1.0303</b>	<b>14,885.4967</b>

13918 Ridge Ranch - Riverside-South Coast County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Paving - 2022**

**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	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225		2,207.660 3	2,207.660 3	0.7140		2,225.510 4
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.1028</b>	<b>11.1249</b>	<b>14.5805</b>	<b>0.0228</b>		<b>0.5679</b>	<b>0.5679</b>		<b>0.5225</b>	<b>0.5225</b>		<b>2,207.660 3</b>	<b>2,207.660 3</b>	<b>0.7140</b>		<b>2,225.510 4</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	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	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	0.0490	0.7811	2.0400e-003	0.2258	1.1000e-003	0.2269	0.0599	1.0100e-003	0.0609		207.7720	207.7720	4.5600e-003	4.8100e-003	209.3207
<b>Total</b>	<b>0.0705</b>	<b>0.0490</b>	<b>0.7811</b>	<b>2.0400e-003</b>	<b>0.2258</b>	<b>1.1000e-003</b>	<b>0.2269</b>	<b>0.0599</b>	<b>1.0100e-003</b>	<b>0.0609</b>		<b>207.7720</b>	<b>207.7720</b>	<b>4.5600e-003</b>	<b>4.8100e-003</b>	<b>209.3207</b>

13918 Ridge Ranch - Riverside-South Coast County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Paving - 2022**

**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	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225	0.0000	2,207.660 3	2,207.660 3	0.7140		2,225.510 4
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.1028</b>	<b>11.1249</b>	<b>14.5805</b>	<b>0.0228</b>		<b>0.5679</b>	<b>0.5679</b>		<b>0.5225</b>	<b>0.5225</b>	<b>0.0000</b>	<b>2,207.660 3</b>	<b>2,207.660 3</b>	<b>0.7140</b>		<b>2,225.510 4</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	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	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	0.0490	0.7811	2.0400e-003	0.2258	1.1000e-003	0.2269	0.0599	1.0100e-003	0.0609		207.7720	207.7720	4.5600e-003	4.8100e-003	209.3207
<b>Total</b>	<b>0.0705</b>	<b>0.0490</b>	<b>0.7811</b>	<b>2.0400e-003</b>	<b>0.2258</b>	<b>1.1000e-003</b>	<b>0.2269</b>	<b>0.0599</b>	<b>1.0100e-003</b>	<b>0.0609</b>		<b>207.7720</b>	<b>207.7720</b>	<b>4.5600e-003</b>	<b>4.8100e-003</b>	<b>209.3207</b>

13918 Ridge Ranch - Riverside-South Coast County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.6 Architectural Coating - 2022**

**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	4.4684					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062
<b>Total</b>	<b>4.6729</b>	<b>1.4085</b>	<b>1.8136</b>	<b>2.9700e-003</b>		<b>0.0817</b>	<b>0.0817</b>		<b>0.0817</b>	<b>0.0817</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0183</b>		<b>281.9062</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	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.6111	0.4247	6.7696	0.0177	1.9568	9.5300e-003	1.9663	0.5189	8.7800e-003	0.5277		1,800.6904	1,800.6904	0.0395	0.0417	1,814.1127
<b>Total</b>	<b>0.6111</b>	<b>0.4247</b>	<b>6.7696</b>	<b>0.0177</b>	<b>1.9568</b>	<b>9.5300e-003</b>	<b>1.9663</b>	<b>0.5189</b>	<b>8.7800e-003</b>	<b>0.5277</b>		<b>1,800.6904</b>	<b>1,800.6904</b>	<b>0.0395</b>	<b>0.0417</b>	<b>1,814.1127</b>



13918 Ridge Ranch - Riverside-South Coast County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.6 Architectural Coating - 2022**

**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	4.4684					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062
<b>Total</b>	<b>4.6729</b>	<b>1.4085</b>	<b>1.8136</b>	<b>2.9700e-003</b>		<b>0.0817</b>	<b>0.0817</b>		<b>0.0817</b>	<b>0.0817</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0183</b>		<b>281.9062</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	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.6111	0.4247	6.7696	0.0177	1.9568	9.5300e-003	1.9663	0.5189	8.7800e-003	0.5277		1,800.6904	1,800.6904	0.0395	0.0417	1,814.1127
<b>Total</b>	<b>0.6111</b>	<b>0.4247</b>	<b>6.7696</b>	<b>0.0177</b>	<b>1.9568</b>	<b>9.5300e-003</b>	<b>1.9663</b>	<b>0.5189</b>	<b>8.7800e-003</b>	<b>0.5277</b>		<b>1,800.6904</b>	<b>1,800.6904</b>	<b>0.0395</b>	<b>0.0417</b>	<b>1,814.1127</b>

13918 Ridge Ranch - Riverside-South Coast County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**4.0 Operational Detail - Mobile**

**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.9545	1.2919	8.6119	0.0187	1.7690	0.0174	1.7865	0.4721	0.0164	0.4885		1,911.7599	1,911.7599	0.0995	0.0929	1,941.9355
Unmitigated	0.9545	1.2919	8.6119	0.0187	1.7690	0.0174	1.7865	0.4721	0.0164	0.4885		1,911.7599	1,911.7599	0.0995	0.0929	1,941.9355

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
Hotel	300.96	294.84	214.20	799,988	799,988
Total	300.96	294.84	214.20	799,988	799,988

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	18.50	10.10	7.90	33.00	48.00	19.00	66	28	6
Hotel	18.50	10.10	7.90	19.40	61.60	19.00	58	38	4

**4.4 Fleet Mix**

13918 Ridge Ranch - Riverside-South Coast County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.531022	0.055789	0.171983	0.143721	0.027315	0.007422	0.011813	0.018850	0.000630	0.000321	0.024273	0.001102	0.005759
Hotel	0.531022	0.055789	0.171983	0.143721	0.027315	0.007422	0.011813	0.018850	0.000630	0.000321	0.024273	0.001102	0.005759

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0550	0.5004	0.4203	3.0000e-003		0.0380	0.0380		0.0380	0.0380		600.4646	600.4646	0.0115	0.0110	604.0328
NaturalGas Unmitigated	0.0550	0.5004	0.4203	3.0000e-003		0.0380	0.0380		0.0380	0.0380		600.4646	600.4646	0.0115	0.0110	604.0328

13918 Ridge Ranch - Riverside-South Coast County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Hotel	5103.95	0.0550	0.5004	0.4203	3.0000e-003		0.0380	0.0380		0.0380	0.0380		600.4646	600.4646	0.0115	0.0110	604.0328
<b>Total</b>		<b>0.0550</b>	<b>0.5004</b>	<b>0.4203</b>	<b>3.0000e-003</b>		<b>0.0380</b>	<b>0.0380</b>		<b>0.0380</b>	<b>0.0380</b>		<b>600.4646</b>	<b>600.4646</b>	<b>0.0115</b>	<b>0.0110</b>	<b>604.0328</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					
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
Hotel	5.10395	0.0550	0.5004	0.4203	3.0000e-003		0.0380	0.0380		0.0380	0.0380		600.4646	600.4646	0.0115	0.0110	604.0328
<b>Total</b>		<b>0.0550</b>	<b>0.5004</b>	<b>0.4203</b>	<b>3.0000e-003</b>		<b>0.0380</b>	<b>0.0380</b>		<b>0.0380</b>	<b>0.0380</b>		<b>600.4646</b>	<b>600.4646</b>	<b>0.0115</b>	<b>0.0110</b>	<b>604.0328</b>

**6.0 Area Detail**

13918 Ridge Ranch - Riverside-South Coast County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**6.1 Mitigation Measures Area**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.7790	7.0000e-005	7.2500e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0155	0.0155	4.0000e-005		0.0165
Unmitigated	0.7790	7.0000e-005	7.2500e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0155	0.0155	4.0000e-005		0.0165

**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	0.0796					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.6987					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	6.7000e-004	7.0000e-005	7.2500e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0155	0.0155	4.0000e-005		0.0165
<b>Total</b>	<b>0.7789</b>	<b>7.0000e-005</b>	<b>7.2500e-003</b>	<b>0.0000</b>		<b>3.0000e-005</b>	<b>3.0000e-005</b>		<b>3.0000e-005</b>	<b>3.0000e-005</b>		<b>0.0155</b>	<b>0.0155</b>	<b>4.0000e-005</b>		<b>0.0165</b>

13918 Ridge Ranch - Riverside-South Coast County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**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	0.0796					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.6987					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	6.7000e-004	7.0000e-005	7.2500e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0155	0.0155	4.0000e-005		0.0165
<b>Total</b>	<b>0.7789</b>	<b>7.0000e-005</b>	<b>7.2500e-003</b>	<b>0.0000</b>		<b>3.0000e-005</b>	<b>3.0000e-005</b>		<b>3.0000e-005</b>	<b>3.0000e-005</b>		<b>0.0155</b>	<b>0.0155</b>	<b>4.0000e-005</b>		<b>0.0165</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

13918 Ridge Ranch - Riverside-South Coast County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**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**

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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13918 Ridge Ranch - Riverside-South Coast County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**13918 Ridge Ranch  
Riverside-South Coast County, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
City Park	34.91	Acre	34.91	1,520,679.60	0
Hotel	36.00	Room	1.20	31,331.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Rural	<b>Wind Speed (m/s)</b>	2.4	<b>Precipitation Freq (Days)</b>	28
<b>Climate Zone</b>	10			<b>Operational Year</b>	2022
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MWhr)</b>	390.98	<b>CH4 Intensity (lb/MWhr)</b>	0.033	<b>N2O Intensity (lb/MWhr)</b>	0.004

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

- Project Characteristics -
- Land Use - Building SF from PD
- Construction Phase - Construction estimated to complete in 2022.
- Grading - Assumes grading/site prep will occur for entire site.
- Vehicle Trips - Park use modeled only for water usage and non-mobile sources for all other areas.
- Construction Off-road Equipment Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	30.00	45.00
tblConstructionPhase	NumDays	75.00	45.00
tblConstructionPhase	NumDays	740.00	260.00



13918 Ridge Ranch - Riverside-South Coast County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

tblConstructionPhase	NumDays	55.00	260.00
tblConstructionPhase	NumDays	55.00	65.00
tblGrading	AcresOfGrading	135.00	36.11
tblGrading	AcresOfGrading	67.50	36.11
tblLandUse	LandUseSquareFeet	52,272.00	31,331.00
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblVehicleTrips	ST_TR	1.96	0.00
tblVehicleTrips	SU_TR	2.19	0.00
tblVehicleTrips	WD_TR	0.78	0.00

**2.0 Emissions Summary**

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13918 Ridge Ranch - Riverside-South Coast County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**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					
2021	8.2632	87.0437	53.7640	0.1049	26.3623	4.0328	30.3951	13.5764	3.7102	17.2865	0.0000	10,182.44 80	10,182.44 80	3.1473	0.0136	10,265.18 97
2022	11.4899	43.3105	70.0203	0.2033	13.8583	1.6943	15.5526	3.7171	1.5887	5.3058	0.0000	20,585.52 76	20,585.52 76	1.6362	1.0842	20,949.52 46
<b>Maximum</b>	<b>11.4899</b>	<b>87.0437</b>	<b>70.0203</b>	<b>0.2033</b>	<b>26.3623</b>	<b>4.0328</b>	<b>30.3951</b>	<b>13.5764</b>	<b>3.7102</b>	<b>17.2865</b>	<b>0.0000</b>	<b>20,585.52 76</b>	<b>20,585.52 76</b>	<b>3.1473</b>	<b>1.0842</b>	<b>20,949.52 46</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					
2021	8.2632	87.0437	53.7640	0.1049	26.3623	4.0328	30.3951	13.5764	3.7102	17.2865	0.0000	10,182.44 80	10,182.44 80	3.1473	0.0136	10,265.18 97
2022	11.4899	43.3105	70.0203	0.2033	13.8583	1.6943	15.5526	3.7171	1.5887	5.3058	0.0000	20,585.52 76	20,585.52 76	1.6362	1.0842	20,949.52 46
<b>Maximum</b>	<b>11.4899</b>	<b>87.0437</b>	<b>70.0203</b>	<b>0.2033</b>	<b>26.3623</b>	<b>4.0328</b>	<b>30.3951</b>	<b>13.5764</b>	<b>3.7102</b>	<b>17.2865</b>	<b>0.0000</b>	<b>20,585.52 76</b>	<b>20,585.52 76</b>	<b>3.1473</b>	<b>1.0842</b>	<b>20,949.52 46</b>



13918 Ridge Ranch - Riverside-South Coast County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**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	0.7790	7.0000e-005	7.2500e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0155	0.0155	4.0000e-005		0.0165
Energy	0.0550	0.5004	0.4203	3.0000e-003		0.0380	0.0380		0.0380	0.0380		600.4646	600.4646	0.0115	0.0110	604.0328
Mobile	0.8059	1.3648	7.6495	0.0173	1.7690	0.0174	1.7865	0.4721	0.0164	0.4885		1,775.7725	1,775.7725	0.1025	0.0949	1,806.6003
<b>Total</b>	<b>1.6399</b>	<b>1.8652</b>	<b>8.0771</b>	<b>0.0203</b>	<b>1.7690</b>	<b>0.0555</b>	<b>1.8245</b>	<b>0.4721</b>	<b>0.0545</b>	<b>0.5265</b>		<b>2,376.2526</b>	<b>2,376.2526</b>	<b>0.1140</b>	<b>0.1059</b>	<b>2,410.6497</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	0.7790	7.0000e-005	7.2500e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0155	0.0155	4.0000e-005		0.0165
Energy	0.0550	0.5004	0.4203	3.0000e-003		0.0380	0.0380		0.0380	0.0380		600.4646	600.4646	0.0115	0.0110	604.0328
Mobile	0.8059	1.3648	7.6495	0.0173	1.7690	0.0174	1.7865	0.4721	0.0164	0.4885		1,775.7725	1,775.7725	0.1025	0.0949	1,806.6003
<b>Total</b>	<b>1.6399</b>	<b>1.8652</b>	<b>8.0771</b>	<b>0.0203</b>	<b>1.7690</b>	<b>0.0555</b>	<b>1.8245</b>	<b>0.4721</b>	<b>0.0545</b>	<b>0.5265</b>		<b>2,376.2526</b>	<b>2,376.2526</b>	<b>0.1140</b>	<b>0.1059</b>	<b>2,410.6497</b>

13918 Ridge Ranch - Riverside-South Coast County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

	ROG	NOx	CO	SO2	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	Site Preparation	Site Preparation	11/1/2021	12/31/2021	5	45	
2	Grading	Grading	11/1/2021	12/31/2021	5	45	
3	Building Construction	Building Construction	1/1/2022	12/31/2022	5	260	
4	Paving	Paving	1/1/2022	12/31/2022	5	260	
5	Architectural Coating	Architectural Coating	10/1/2022	12/31/2022	5	65	

**Acres of Grading (Site Preparation Phase): 36.11**

**Acres of Grading (Grading Phase): 36.11**

**Acres of Paving: 0**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 46,997; Non-Residential Outdoor: 15,666; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

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

13918 Ridge Ranch - Riverside-South Coast County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

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	19.80	7.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	19.80	7.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	652.00	254.00	0.00	19.80	7.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	19.80	7.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	130.00	0.00	0.00	19.80	7.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

13918 Ridge Ranch - Riverside-South Coast County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.2 Site Preparation - 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					
Fugitive Dust					18.9173	0.0000	18.9173	10.0226	0.0000	10.0226			0.0000			0.0000
Off-Road	3.8882	40.4971	21.1543	0.0380		2.0445	2.0445		1.8809	1.8809		3,685.6569	3,685.6569	1.1920		3,715.4573
<b>Total</b>	<b>3.8882</b>	<b>40.4971</b>	<b>21.1543</b>	<b>0.0380</b>	<b>18.9173</b>	<b>2.0445</b>	<b>20.9617</b>	<b>10.0226</b>	<b>1.8809</b>	<b>11.9035</b>		<b>3,685.6569</b>	<b>3,685.6569</b>	<b>1.1920</b>		<b>3,715.4573</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	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0871	0.0695	0.8201	2.2900e-003	0.2709	1.4100e-003	0.2724	0.0719	1.3000e-003	0.0731		231.9858	231.9858	5.9300e-003	6.4500e-003	234.0564
<b>Total</b>	<b>0.0871</b>	<b>0.0695</b>	<b>0.8201</b>	<b>2.2900e-003</b>	<b>0.2709</b>	<b>1.4100e-003</b>	<b>0.2724</b>	<b>0.0719</b>	<b>1.3000e-003</b>	<b>0.0731</b>		<b>231.9858</b>	<b>231.9858</b>	<b>5.9300e-003</b>	<b>6.4500e-003</b>	<b>234.0564</b>

13918 Ridge Ranch - Riverside-South Coast County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.2 Site Preparation - 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					
Fugitive Dust					18.9173	0.0000	18.9173	10.0226	0.0000	10.0226			0.0000			0.0000
Off-Road	3.8882	40.4971	21.1543	0.0380		2.0445	2.0445		1.8809	1.8809	0.0000	3,685.6569	3,685.6569	1.1920		3,715.4573
<b>Total</b>	<b>3.8882</b>	<b>40.4971</b>	<b>21.1543</b>	<b>0.0380</b>	<b>18.9173</b>	<b>2.0445</b>	<b>20.9617</b>	<b>10.0226</b>	<b>1.8809</b>	<b>11.9035</b>	<b>0.0000</b>	<b>3,685.6569</b>	<b>3,685.6569</b>	<b>1.1920</b>		<b>3,715.4573</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	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0871	0.0695	0.8201	2.2900e-003	0.2709	1.4100e-003	0.2724	0.0719	1.3000e-003	0.0731		231.9858	231.9858	5.9300e-003	6.4500e-003	234.0564
<b>Total</b>	<b>0.0871</b>	<b>0.0695</b>	<b>0.8201</b>	<b>2.2900e-003</b>	<b>0.2709</b>	<b>1.4100e-003</b>	<b>0.2724</b>	<b>0.0719</b>	<b>1.3000e-003</b>	<b>0.0731</b>		<b>231.9858</b>	<b>231.9858</b>	<b>5.9300e-003</b>	<b>6.4500e-003</b>	<b>234.0564</b>



13918 Ridge Ranch - Riverside-South Coast County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.3 Grading - 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					
Fugitive Dust					6.8731	0.0000	6.8731	3.4021	0.0000	3.4021			0.0000			0.0000
Off-Road	4.1912	46.3998	30.8785	0.0620		1.9853	1.9853		1.8265	1.8265		6,007.043 4	6,007.043 4	1.9428		6,055.613 4
<b>Total</b>	<b>4.1912</b>	<b>46.3998</b>	<b>30.8785</b>	<b>0.0620</b>	<b>6.8731</b>	<b>1.9853</b>	<b>8.8584</b>	<b>3.4021</b>	<b>1.8265</b>	<b>5.2286</b>		<b>6,007.043 4</b>	<b>6,007.043 4</b>	<b>1.9428</b>		<b>6,055.613 4</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	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0968	0.0773	0.9112	2.5400e-003	0.3010	1.5600e-003	0.3026	0.0798	1.4400e-003	0.0813		257.7619	257.7619	6.5900e-003	7.1700e-003	260.0626
<b>Total</b>	<b>0.0968</b>	<b>0.0773</b>	<b>0.9112</b>	<b>2.5400e-003</b>	<b>0.3010</b>	<b>1.5600e-003</b>	<b>0.3026</b>	<b>0.0798</b>	<b>1.4400e-003</b>	<b>0.0813</b>		<b>257.7619</b>	<b>257.7619</b>	<b>6.5900e-003</b>	<b>7.1700e-003</b>	<b>260.0626</b>

13918 Ridge Ranch - Riverside-South Coast County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.3 Grading - 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					
Fugitive Dust					6.8731	0.0000	6.8731	3.4021	0.0000	3.4021			0.0000			0.0000
Off-Road	4.1912	46.3998	30.8785	0.0620		1.9853	1.9853		1.8265	1.8265	0.0000	6,007.043 4	6,007.043 4	1.9428		6,055.613 4
<b>Total</b>	<b>4.1912</b>	<b>46.3998</b>	<b>30.8785</b>	<b>0.0620</b>	<b>6.8731</b>	<b>1.9853</b>	<b>8.8584</b>	<b>3.4021</b>	<b>1.8265</b>	<b>5.2286</b>	<b>0.0000</b>	<b>6,007.043 4</b>	<b>6,007.043 4</b>	<b>1.9428</b>		<b>6,055.613 4</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	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0968	0.0773	0.9112	2.5400e-003	0.3010	1.5600e-003	0.3026	0.0798	1.4400e-003	0.0813		257.7619	257.7619	6.5900e-003	7.1700e-003	260.0626
<b>Total</b>	<b>0.0968</b>	<b>0.0773</b>	<b>0.9112</b>	<b>2.5400e-003</b>	<b>0.3010</b>	<b>1.5600e-003</b>	<b>0.3026</b>	<b>0.0798</b>	<b>1.4400e-003</b>	<b>0.0813</b>		<b>257.7619</b>	<b>257.7619</b>	<b>6.5900e-003</b>	<b>7.1700e-003</b>	<b>260.0626</b>

13918 Ridge Ranch - Riverside-South Coast County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.4 Building Construction - 2022**

**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	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.3336	2,554.3336	0.6120		2,569.6322
<b>Total</b>	<b>1.7062</b>	<b>15.6156</b>	<b>16.3634</b>	<b>0.0269</b>		<b>0.8090</b>	<b>0.8090</b>		<b>0.7612</b>	<b>0.7612</b>		<b>2,554.3336</b>	<b>2,554.3336</b>	<b>0.6120</b>		<b>2,569.6322</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	0.0000
Vendor	0.4275	12.4592	4.0494	0.0523	1.8617	0.1772	2.0389	0.5360	0.1695	0.7055		5,546.2675	5,546.2675	0.0569	0.8224	5,792.7724
Worker	2.9291	2.2107	27.1709	0.0804	9.8140	0.0478	9.8618	2.6024	0.0440	2.6465		8,177.2565	8,177.2565	0.1923	0.2142	8,245.8803
<b>Total</b>	<b>3.3566</b>	<b>14.6699</b>	<b>31.2203</b>	<b>0.1327</b>	<b>11.6757</b>	<b>0.2250</b>	<b>11.9008</b>	<b>3.1384</b>	<b>0.2136</b>	<b>3.3519</b>		<b>13,723.5240</b>	<b>13,723.5240</b>	<b>0.2492</b>	<b>1.0366</b>	<b>14,038.6528</b>

13918 Ridge Ranch - Riverside-South Coast County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.4 Building Construction - 2022**

**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	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322
<b>Total</b>	<b>1.7062</b>	<b>15.6156</b>	<b>16.3634</b>	<b>0.0269</b>		<b>0.8090</b>	<b>0.8090</b>		<b>0.7612</b>	<b>0.7612</b>	<b>0.0000</b>	<b>2,554.3336</b>	<b>2,554.3336</b>	<b>0.6120</b>		<b>2,569.6322</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	0.0000
Vendor	0.4275	12.4592	4.0494	0.0523	1.8617	0.1772	2.0389	0.5360	0.1695	0.7055		5,546.2675	5,546.2675	0.0569	0.8224	5,792.7724
Worker	2.9291	2.2107	27.1709	0.0804	9.8140	0.0478	9.8618	2.6024	0.0440	2.6465		8,177.2565	8,177.2565	0.1923	0.2142	8,245.8803
<b>Total</b>	<b>3.3566</b>	<b>14.6699</b>	<b>31.2203</b>	<b>0.1327</b>	<b>11.6757</b>	<b>0.2250</b>	<b>11.9008</b>	<b>3.1384</b>	<b>0.2136</b>	<b>3.3519</b>		<b>13,723.5240</b>	<b>13,723.5240</b>	<b>0.2492</b>	<b>1.0366</b>	<b>14,038.6528</b>

13918 Ridge Ranch - Riverside-South Coast County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Paving - 2022**

**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	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225		2,207.6603	2,207.6603	0.7140		2,225.5104
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.1028</b>	<b>11.1249</b>	<b>14.5805</b>	<b>0.0228</b>		<b>0.5679</b>	<b>0.5679</b>		<b>0.5225</b>	<b>0.5225</b>		<b>2,207.6603</b>	<b>2,207.6603</b>	<b>0.7140</b>		<b>2,225.5104</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	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0674	0.0509	0.6251	1.8500e-003	0.2258	1.1000e-003	0.2269	0.0599	1.0100e-003	0.0609		188.1271	188.1271	4.4200e-003	4.9300e-003	189.7058
<b>Total</b>	<b>0.0674</b>	<b>0.0509</b>	<b>0.6251</b>	<b>1.8500e-003</b>	<b>0.2258</b>	<b>1.1000e-003</b>	<b>0.2269</b>	<b>0.0599</b>	<b>1.0100e-003</b>	<b>0.0609</b>		<b>188.1271</b>	<b>188.1271</b>	<b>4.4200e-003</b>	<b>4.9300e-003</b>	<b>189.7058</b>

13918 Ridge Ranch - Riverside-South Coast County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Paving - 2022**

**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	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225	0.0000	2,207.660 3	2,207.660 3	0.7140		2,225.510 4
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.1028</b>	<b>11.1249</b>	<b>14.5805</b>	<b>0.0228</b>		<b>0.5679</b>	<b>0.5679</b>		<b>0.5225</b>	<b>0.5225</b>	<b>0.0000</b>	<b>2,207.660 3</b>	<b>2,207.660 3</b>	<b>0.7140</b>		<b>2,225.510 4</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	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0674	0.0509	0.6251	1.8500e-003	0.2258	1.1000e-003	0.2269	0.0599	1.0100e-003	0.0609		188.1271	188.1271	4.4200e-003	4.9300e-003	189.7058
<b>Total</b>	<b>0.0674</b>	<b>0.0509</b>	<b>0.6251</b>	<b>1.8500e-003</b>	<b>0.2258</b>	<b>1.1000e-003</b>	<b>0.2269</b>	<b>0.0599</b>	<b>1.0100e-003</b>	<b>0.0609</b>		<b>188.1271</b>	<b>188.1271</b>	<b>4.4200e-003</b>	<b>4.9300e-003</b>	<b>189.7058</b>

13918 Ridge Ranch - Riverside-South Coast County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.6 Architectural Coating - 2022**

**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	4.4684					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062
<b>Total</b>	<b>4.6729</b>	<b>1.4085</b>	<b>1.8136</b>	<b>2.9700e-003</b>		<b>0.0817</b>	<b>0.0817</b>		<b>0.0817</b>	<b>0.0817</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0183</b>		<b>281.9062</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	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.5840	0.4408	5.4175	0.0160	1.9568	9.5300e-003	1.9663	0.5189	8.7800e-003	0.5277		1,630.4346	1,630.4346	0.0383	0.0427	1,644.1172
<b>Total</b>	<b>0.5840</b>	<b>0.4408</b>	<b>5.4175</b>	<b>0.0160</b>	<b>1.9568</b>	<b>9.5300e-003</b>	<b>1.9663</b>	<b>0.5189</b>	<b>8.7800e-003</b>	<b>0.5277</b>		<b>1,630.4346</b>	<b>1,630.4346</b>	<b>0.0383</b>	<b>0.0427</b>	<b>1,644.1172</b>

13918 Ridge Ranch - Riverside-South Coast County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.6 Architectural Coating - 2022**

**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	4.4684					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062
<b>Total</b>	<b>4.6729</b>	<b>1.4085</b>	<b>1.8136</b>	<b>2.9700e-003</b>		<b>0.0817</b>	<b>0.0817</b>		<b>0.0817</b>	<b>0.0817</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0183</b>		<b>281.9062</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	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.5840	0.4408	5.4175	0.0160	1.9568	9.5300e-003	1.9663	0.5189	8.7800e-003	0.5277		1,630.4346	1,630.4346	0.0383	0.0427	1,644.1172
<b>Total</b>	<b>0.5840</b>	<b>0.4408</b>	<b>5.4175</b>	<b>0.0160</b>	<b>1.9568</b>	<b>9.5300e-003</b>	<b>1.9663</b>	<b>0.5189</b>	<b>8.7800e-003</b>	<b>0.5277</b>		<b>1,630.4346</b>	<b>1,630.4346</b>	<b>0.0383</b>	<b>0.0427</b>	<b>1,644.1172</b>



13918 Ridge Ranch - Riverside-South Coast County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**4.0 Operational Detail - Mobile**

**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.8059	1.3648	7.6495	0.0173	1.7690	0.0174	1.7865	0.4721	0.0164	0.4885		1,775.7725	1,775.7725	0.1025	0.0949	1,806.6003
Unmitigated	0.8059	1.3648	7.6495	0.0173	1.7690	0.0174	1.7865	0.4721	0.0164	0.4885		1,775.7725	1,775.7725	0.1025	0.0949	1,806.6003

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
Hotel	300.96	294.84	214.20	799,988	799,988
<b>Total</b>	<b>300.96</b>	<b>294.84</b>	<b>214.20</b>	<b>799,988</b>	<b>799,988</b>

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	18.50	10.10	7.90	33.00	48.00	19.00	66	28	6
Hotel	18.50	10.10	7.90	19.40	61.60	19.00	58	38	4

**4.4 Fleet Mix**

13918 Ridge Ranch - Riverside-South Coast County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.531022	0.055789	0.171983	0.143721	0.027315	0.007422	0.011813	0.018850	0.000630	0.000321	0.024273	0.001102	0.005759
Hotel	0.531022	0.055789	0.171983	0.143721	0.027315	0.007422	0.011813	0.018850	0.000630	0.000321	0.024273	0.001102	0.005759

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0550	0.5004	0.4203	3.0000e-003		0.0380	0.0380		0.0380	0.0380		600.4646	600.4646	0.0115	0.0110	604.0328
NaturalGas Unmitigated	0.0550	0.5004	0.4203	3.0000e-003		0.0380	0.0380		0.0380	0.0380		600.4646	600.4646	0.0115	0.0110	604.0328

13918 Ridge Ranch - Riverside-South Coast County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Hotel	5103.95	0.0550	0.5004	0.4203	3.0000e-003		0.0380	0.0380		0.0380	0.0380		600.4646	600.4646	0.0115	0.0110	604.0328
<b>Total</b>		<b>0.0550</b>	<b>0.5004</b>	<b>0.4203</b>	<b>3.0000e-003</b>		<b>0.0380</b>	<b>0.0380</b>		<b>0.0380</b>	<b>0.0380</b>		<b>600.4646</b>	<b>600.4646</b>	<b>0.0115</b>	<b>0.0110</b>	<b>604.0328</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					
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
Hotel	5.10395	0.0550	0.5004	0.4203	3.0000e-003		0.0380	0.0380		0.0380	0.0380		600.4646	600.4646	0.0115	0.0110	604.0328
<b>Total</b>		<b>0.0550</b>	<b>0.5004</b>	<b>0.4203</b>	<b>3.0000e-003</b>		<b>0.0380</b>	<b>0.0380</b>		<b>0.0380</b>	<b>0.0380</b>		<b>600.4646</b>	<b>600.4646</b>	<b>0.0115</b>	<b>0.0110</b>	<b>604.0328</b>

**6.0 Area Detail**

13918 Ridge Ranch - Riverside-South Coast County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**6.1 Mitigation Measures Area**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.7790	7.0000e-005	7.2500e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0155	0.0155	4.0000e-005		0.0165
Unmitigated	0.7790	7.0000e-005	7.2500e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0155	0.0155	4.0000e-005		0.0165

**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	0.0796					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.6987					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	6.7000e-004	7.0000e-005	7.2500e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0155	0.0155	4.0000e-005		0.0165
<b>Total</b>	<b>0.7789</b>	<b>7.0000e-005</b>	<b>7.2500e-003</b>	<b>0.0000</b>		<b>3.0000e-005</b>	<b>3.0000e-005</b>		<b>3.0000e-005</b>	<b>3.0000e-005</b>		<b>0.0155</b>	<b>0.0155</b>	<b>4.0000e-005</b>		<b>0.0165</b>

13918 Ridge Ranch - Riverside-South Coast County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**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	0.0796					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.6987					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	6.7000e-004	7.0000e-005	7.2500e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0155	0.0155	4.0000e-005		0.0165
<b>Total</b>	<b>0.7789</b>	<b>7.0000e-005</b>	<b>7.2500e-003</b>	<b>0.0000</b>		<b>3.0000e-005</b>	<b>3.0000e-005</b>		<b>3.0000e-005</b>	<b>3.0000e-005</b>		<b>0.0155</b>	<b>0.0155</b>	<b>4.0000e-005</b>		<b>0.0165</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

13918 Ridge Ranch - Riverside-South Coast County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**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**

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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13918 Ridge Ranch - Riverside-South Coast County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**13918 Ridge Ranch  
Riverside-South Coast County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
City Park	34.91	Acre	34.91	1,520,679.60	0
Hotel	36.00	Room	1.20	31,331.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Rural	<b>Wind Speed (m/s)</b>	2.4	<b>Precipitation Freq (Days)</b>	28
<b>Climate Zone</b>	10			<b>Operational Year</b>	2022
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MWhr)</b>	390.98	<b>CH4 Intensity (lb/MWhr)</b>	0.033	<b>N2O Intensity (lb/MWhr)</b>	0.004

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

- Project Characteristics -
- Land Use - Building SF from PD
- Construction Phase - Construction estimated to complete in 2022.
- Grading - Assumes grading/site prep will occur for entire site.
- Vehicle Trips - Park use modeled only for water usage and non-mobile sources for all other areas.
- Construction Off-road Equipment Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	30.00	45.00
tblConstructionPhase	NumDays	75.00	45.00
tblConstructionPhase	NumDays	740.00	260.00

13918 Ridge Ranch - Riverside-South Coast County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

tblConstructionPhase	NumDays	55.00	260.00
tblConstructionPhase	NumDays	55.00	65.00
tblGrading	AcresOfGrading	135.00	36.11
tblGrading	AcresOfGrading	67.50	36.11
tblLandUse	LandUseSquareFeet	52,272.00	31,331.00
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblVehicleTrips	ST_TR	1.96	0.00
tblVehicleTrips	SU_TR	2.19	0.00
tblVehicleTrips	WD_TR	0.78	0.00

**2.0 Emissions Summary**

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13918 Ridge Ranch - Riverside-South Coast County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**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					
2021	0.1857	1.9586	1.2120	2.3600e-003	0.5929	0.0907	0.6837	0.3054	0.0835	0.3889	0.0000	208.0760	208.0760	0.0642	2.8000e-004	209.7667
2022	0.9584	5.4546	8.6057	0.0248	1.5847	0.2113	1.7960	0.4262	0.1977	0.6239	0.0000	2,282.5218	2,282.5218	0.1883	0.1246	2,324.3547
<b>Maximum</b>	<b>0.9584</b>	<b>5.4546</b>	<b>8.6057</b>	<b>0.0248</b>	<b>1.5847</b>	<b>0.2113</b>	<b>1.7960</b>	<b>0.4262</b>	<b>0.1977</b>	<b>0.6239</b>	<b>0.0000</b>	<b>2,282.5218</b>	<b>2,282.5218</b>	<b>0.1883</b>	<b>0.1246</b>	<b>2,324.3547</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					
2021	0.1857	1.9586	1.2120	2.3600e-003	0.5929	0.0907	0.6837	0.3054	0.0835	0.3889	0.0000	208.0758	208.0758	0.0642	2.8000e-004	209.7665
2022	0.9584	5.4546	8.6057	0.0248	1.5847	0.2113	1.7960	0.4262	0.1977	0.6239	0.0000	2,282.5211	2,282.5211	0.1883	0.1246	2,324.3540
<b>Maximum</b>	<b>0.9584</b>	<b>5.4546</b>	<b>8.6057</b>	<b>0.0248</b>	<b>1.5847</b>	<b>0.2113</b>	<b>1.7960</b>	<b>0.4262</b>	<b>0.1977</b>	<b>0.6239</b>	<b>0.0000</b>	<b>2,282.5211</b>	<b>2,282.5211</b>	<b>0.1883</b>	<b>0.1246</b>	<b>2,324.3540</b>

13918 Ridge Ranch - Riverside-South Coast County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

	ROG	NOx	CO	SO2	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	11-18-2021	2-17-2022	2.3153	2.3153
2	2-18-2022	5-17-2022	1.5066	1.5066
3	5-18-2022	8-17-2022	1.5488	1.5488
4	8-18-2022	9-30-2022	0.7407	0.7407
		Highest	2.3153	2.3153

**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	0.1421	1.0000e-005	9.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.7600e-003	1.7600e-003	0.0000	0.0000	1.8800e-003
Energy	0.0101	0.0913	0.0767	5.5000e-004		6.9400e-003	6.9400e-003		6.9400e-003	6.9400e-003	0.0000	196.3731	196.3731	0.0101	2.8100e-003	197.4640
Mobile	0.1417	0.2391	1.3737	3.0600e-003	0.3027	3.0300e-003	0.3057	0.0809	2.8500e-003	0.0837	0.0000	284.7053	284.7053	0.0161	0.0151	289.5940
Waste						0.0000	0.0000		0.0000	0.0000	4.6099	0.0000	4.6099	0.2724	0.0000	11.4209
Water						0.0000	0.0000		0.0000	0.0000	0.2897	84.2630	84.5527	0.0369	1.5600e-003	85.9407
<b>Total</b>	<b>0.2939</b>	<b>0.3305</b>	<b>1.4513</b>	<b>3.6100e-003</b>	<b>0.3027</b>	<b>9.9700e-003</b>	<b>0.3127</b>	<b>0.0809</b>	<b>9.7900e-003</b>	<b>0.0907</b>	<b>4.8996</b>	<b>565.3431</b>	<b>570.2427</b>	<b>0.3355</b>	<b>0.0194</b>	<b>584.4215</b>

13918 Ridge Ranch - Riverside-South Coast County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**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	0.1421	1.0000e-005	9.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.7600e-003	1.7600e-003	0.0000	0.0000	1.8800e-003
Energy	0.0101	0.0913	0.0767	5.5000e-004		6.9400e-003	6.9400e-003		6.9400e-003	6.9400e-003	0.0000	196.3731	196.3731	0.0101	2.8100e-003	197.4640
Mobile	0.1417	0.2391	1.3737	3.0600e-003	0.3027	3.0300e-003	0.3057	0.0809	2.8500e-003	0.0837	0.0000	284.7053	284.7053	0.0161	0.0151	289.5940
Waste						0.0000	0.0000		0.0000	0.0000	4.6099	0.0000	4.6099	0.2724	0.0000	11.4209
Water						0.0000	0.0000		0.0000	0.0000	0.2897	84.2630	84.5527	0.0369	1.5600e-003	85.9407
<b>Total</b>	<b>0.2939</b>	<b>0.3305</b>	<b>1.4513</b>	<b>3.6100e-003</b>	<b>0.3027</b>	<b>9.9700e-003</b>	<b>0.3127</b>	<b>0.0809</b>	<b>9.7900e-003</b>	<b>0.0907</b>	<b>4.8996</b>	<b>565.3431</b>	<b>570.2427</b>	<b>0.3355</b>	<b>0.0194</b>	<b>584.4215</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>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</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	Site Preparation	Site Preparation	11/1/2021	12/31/2021	5	45	
2	Grading	Grading	11/1/2021	12/31/2021	5	45	
3	Building Construction	Building Construction	1/1/2022	12/31/2022	5	260	

13918 Ridge Ranch - Riverside-South Coast County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

4	Paving	Paving	1/1/2022	12/31/2022	5	260
5	Architectural Coating	Architectural Coating	10/1/2022	12/31/2022	5	65

**Acres of Grading (Site Preparation Phase): 36.11**

**Acres of Grading (Grading Phase): 36.11**

**Acres of Paving: 0**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 46,997; Non-Residential Outdoor: 15,666; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

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**

13918 Ridge Ranch - Riverside-South Coast County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

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	19.80	7.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	19.80	7.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	652.00	254.00	0.00	19.80	7.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	19.80	7.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	130.00	0.00	0.00	19.80	7.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

**3.2 Site Preparation - 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					
Fugitive Dust					0.4256	0.0000	0.4256	0.2255	0.0000	0.2255	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0875	0.9112	0.4760	8.6000e-004		0.0460	0.0460		0.0423	0.0423	0.0000	75.2304	75.2304	0.0243	0.0000	75.8386
<b>Total</b>	<b>0.0875</b>	<b>0.9112</b>	<b>0.4760</b>	<b>8.6000e-004</b>	<b>0.4256</b>	<b>0.0460</b>	<b>0.4716</b>	<b>0.2255</b>	<b>0.0423</b>	<b>0.2678</b>	<b>0.0000</b>	<b>75.2304</b>	<b>75.2304</b>	<b>0.0243</b>	<b>0.0000</b>	<b>75.8386</b>

13918 Ridge Ranch - Riverside-South Coast County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.2 Site Preparation - 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	1.8500e-003	1.6100e-003	0.0195	5.0000e-005	5.9900e-003	3.0000e-005	6.0300e-003	1.5900e-003	3.0000e-005	1.6200e-003	0.0000	4.8467	4.8467	1.2000e-004	1.3000e-004	4.8898
<b>Total</b>	<b>1.8500e-003</b>	<b>1.6100e-003</b>	<b>0.0195</b>	<b>5.0000e-005</b>	<b>5.9900e-003</b>	<b>3.0000e-005</b>	<b>6.0300e-003</b>	<b>1.5900e-003</b>	<b>3.0000e-005</b>	<b>1.6200e-003</b>	<b>0.0000</b>	<b>4.8467</b>	<b>4.8467</b>	<b>1.2000e-004</b>	<b>1.3000e-004</b>	<b>4.8898</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					0.4256	0.0000	0.4256	0.2255	0.0000	0.2255	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0875	0.9112	0.4760	8.6000e-004		0.0460	0.0460		0.0423	0.0423	0.0000	75.2303	75.2303	0.0243	0.0000	75.8386
<b>Total</b>	<b>0.0875</b>	<b>0.9112</b>	<b>0.4760</b>	<b>8.6000e-004</b>	<b>0.4256</b>	<b>0.0460</b>	<b>0.4716</b>	<b>0.2255</b>	<b>0.0423</b>	<b>0.2678</b>	<b>0.0000</b>	<b>75.2303</b>	<b>75.2303</b>	<b>0.0243</b>	<b>0.0000</b>	<b>75.8386</b>

13918 Ridge Ranch - Riverside-South Coast County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.2 Site Preparation - 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	1.8500e-003	1.6100e-003	0.0195	5.0000e-005	5.9900e-003	3.0000e-005	6.0300e-003	1.5900e-003	3.0000e-005	1.6200e-003	0.0000	4.8467	4.8467	1.2000e-004	1.3000e-004	4.8898
<b>Total</b>	<b>1.8500e-003</b>	<b>1.6100e-003</b>	<b>0.0195</b>	<b>5.0000e-005</b>	<b>5.9900e-003</b>	<b>3.0000e-005</b>	<b>6.0300e-003</b>	<b>1.5900e-003</b>	<b>3.0000e-005</b>	<b>1.6200e-003</b>	<b>0.0000</b>	<b>4.8467</b>	<b>4.8467</b>	<b>1.2000e-004</b>	<b>1.3000e-004</b>	<b>4.8898</b>

**3.3 Grading - 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					
Fugitive Dust					0.1546	0.0000	0.1546	0.0766	0.0000	0.0766	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0943	1.0440	0.6948	1.4000e-003		0.0447	0.0447		0.0411	0.0411	0.0000	122.6137	122.6137	0.0397	0.0000	123.6051
<b>Total</b>	<b>0.0943</b>	<b>1.0440</b>	<b>0.6948</b>	<b>1.4000e-003</b>	<b>0.1546</b>	<b>0.0447</b>	<b>0.1993</b>	<b>0.0766</b>	<b>0.0411</b>	<b>0.1177</b>	<b>0.0000</b>	<b>122.6137</b>	<b>122.6137</b>	<b>0.0397</b>	<b>0.0000</b>	<b>123.6051</b>

13918 Ridge Ranch - Riverside-South Coast County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.3 Grading - 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	2.0500e-003	1.7900e-003	0.0217	6.0000e-005	6.6600e-003	4.0000e-005	6.7000e-003	1.7700e-003	3.0000e-005	1.8000e-003	0.0000	5.3852	5.3852	1.4000e-004	1.5000e-004	5.4331
<b>Total</b>	<b>2.0500e-003</b>	<b>1.7900e-003</b>	<b>0.0217</b>	<b>6.0000e-005</b>	<b>6.6600e-003</b>	<b>4.0000e-005</b>	<b>6.7000e-003</b>	<b>1.7700e-003</b>	<b>3.0000e-005</b>	<b>1.8000e-003</b>	<b>0.0000</b>	<b>5.3852</b>	<b>5.3852</b>	<b>1.4000e-004</b>	<b>1.5000e-004</b>	<b>5.4331</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					0.1546	0.0000	0.1546	0.0766	0.0000	0.0766	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0943	1.0440	0.6948	1.4000e-003		0.0447	0.0447		0.0411	0.0411	0.0000	122.6136	122.6136	0.0397	0.0000	123.6050
<b>Total</b>	<b>0.0943</b>	<b>1.0440</b>	<b>0.6948</b>	<b>1.4000e-003</b>	<b>0.1546</b>	<b>0.0447</b>	<b>0.1993</b>	<b>0.0766</b>	<b>0.0411</b>	<b>0.1177</b>	<b>0.0000</b>	<b>122.6136</b>	<b>122.6136</b>	<b>0.0397</b>	<b>0.0000</b>	<b>123.6050</b>



13918 Ridge Ranch - Riverside-South Coast County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.3 Grading - 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	2.0500e-003	1.7900e-003	0.0217	6.0000e-005	6.6600e-003	4.0000e-005	6.7000e-003	1.7700e-003	3.0000e-005	1.8000e-003	0.0000	5.3852	5.3852	1.4000e-004	1.5000e-004	5.4331
<b>Total</b>	<b>2.0500e-003</b>	<b>1.7900e-003</b>	<b>0.0217</b>	<b>6.0000e-005</b>	<b>6.6600e-003</b>	<b>4.0000e-005</b>	<b>6.7000e-003</b>	<b>1.7700e-003</b>	<b>3.0000e-005</b>	<b>1.8000e-003</b>	<b>0.0000</b>	<b>5.3852</b>	<b>5.3852</b>	<b>1.4000e-004</b>	<b>1.5000e-004</b>	<b>5.4331</b>

**3.4 Building Construction - 2022**

**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	0.2218	2.0300	2.1272	3.5000e-003		0.1052	0.1052		0.0990	0.0990	0.0000	301.2428	301.2428	0.0722	0.0000	303.0471
<b>Total</b>	<b>0.2218</b>	<b>2.0300</b>	<b>2.1272</b>	<b>3.5000e-003</b>		<b>0.1052</b>	<b>0.1052</b>		<b>0.0990</b>	<b>0.0990</b>	<b>0.0000</b>	<b>301.2428</b>	<b>301.2428</b>	<b>0.0722</b>	<b>0.0000</b>	<b>303.0471</b>

13918 Ridge Ranch - Riverside-South Coast County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.4 Building Construction - 2022**

**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	0.0566	1.6155	0.5162	6.8000e-003	0.2387	0.0230	0.2617	0.0689	0.0220	0.0909	0.0000	653.7290	653.7290	6.7600e-003	0.0969	682.7817
Worker	0.3587	0.2955	3.7357	0.0107	1.2546	6.2200e-003	1.2608	0.3331	5.7200e-003	0.3388	0.0000	986.9888	986.9888	0.0229	0.0258	995.2447
<b>Total</b>	<b>0.4152</b>	<b>1.9110</b>	<b>4.2519</b>	<b>0.0175</b>	<b>1.4933</b>	<b>0.0292</b>	<b>1.5225</b>	<b>0.4020</b>	<b>0.0277</b>	<b>0.4297</b>	<b>0.0000</b>	<b>1,640.7178</b>	<b>1,640.7178</b>	<b>0.0297</b>	<b>0.1227</b>	<b>1,678.0264</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	0.2218	2.0300	2.1272	3.5000e-003		0.1052	0.1052		0.0990	0.0990	0.0000	301.2425	301.2425	0.0722	0.0000	303.0467
<b>Total</b>	<b>0.2218</b>	<b>2.0300</b>	<b>2.1272</b>	<b>3.5000e-003</b>		<b>0.1052</b>	<b>0.1052</b>		<b>0.0990</b>	<b>0.0990</b>	<b>0.0000</b>	<b>301.2425</b>	<b>301.2425</b>	<b>0.0722</b>	<b>0.0000</b>	<b>303.0467</b>

13918 Ridge Ranch - Riverside-South Coast County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.4 Building Construction - 2022**

**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	0.0566	1.6155	0.5162	6.8000e-003	0.2387	0.0230	0.2617	0.0689	0.0220	0.0909	0.0000	653.7290	653.7290	6.7600e-003	0.0969	682.7817
Worker	0.3587	0.2955	3.7357	0.0107	1.2546	6.2200e-003	1.2608	0.3331	5.7200e-003	0.3388	0.0000	986.9888	986.9888	0.0229	0.0258	995.2447
<b>Total</b>	<b>0.4152</b>	<b>1.9110</b>	<b>4.2519</b>	<b>0.0175</b>	<b>1.4933</b>	<b>0.0292</b>	<b>1.5225</b>	<b>0.4020</b>	<b>0.0277</b>	<b>0.4297</b>	<b>0.0000</b>	<b>1,640.7178</b>	<b>1,640.7178</b>	<b>0.0297</b>	<b>0.1227</b>	<b>1,678.0264</b>

**3.5 Paving - 2022**

**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	0.1434	1.4462	1.8955	2.9600e-003		0.0738	0.0738		0.0679	0.0679	0.0000	260.3583	260.3583	0.0842	0.0000	262.4634
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>0.1434</b>	<b>1.4462</b>	<b>1.8955</b>	<b>2.9600e-003</b>		<b>0.0738</b>	<b>0.0738</b>		<b>0.0679</b>	<b>0.0679</b>	<b>0.0000</b>	<b>260.3583</b>	<b>260.3583</b>	<b>0.0842</b>	<b>0.0000</b>	<b>262.4634</b>

13918 Ridge Ranch - Riverside-South Coast County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Paving - 2022**

**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	8.2500e-003	6.8000e-003	0.0859	2.5000e-004	0.0289	1.4000e-004	0.0290	7.6600e-003	1.3000e-004	7.7900e-003	0.0000	22.7068	22.7068	5.3000e-004	5.9000e-004	22.8967
<b>Total</b>	<b>8.2500e-003</b>	<b>6.8000e-003</b>	<b>0.0859</b>	<b>2.5000e-004</b>	<b>0.0289</b>	<b>1.4000e-004</b>	<b>0.0290</b>	<b>7.6600e-003</b>	<b>1.3000e-004</b>	<b>7.7900e-003</b>	<b>0.0000</b>	<b>22.7068</b>	<b>22.7068</b>	<b>5.3000e-004</b>	<b>5.9000e-004</b>	<b>22.8967</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	0.1434	1.4462	1.8955	2.9600e-003		0.0738	0.0738		0.0679	0.0679	0.0000	260.3579	260.3579	0.0842	0.0000	262.4631
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>0.1434</b>	<b>1.4462</b>	<b>1.8955</b>	<b>2.9600e-003</b>		<b>0.0738</b>	<b>0.0738</b>		<b>0.0679</b>	<b>0.0679</b>	<b>0.0000</b>	<b>260.3579</b>	<b>260.3579</b>	<b>0.0842</b>	<b>0.0000</b>	<b>262.4631</b>

13918 Ridge Ranch - Riverside-South Coast County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Paving - 2022**

**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	8.2500e-003	6.8000e-003	0.0859	2.5000e-004	0.0289	1.4000e-004	0.0290	7.6600e-003	1.3000e-004	7.7900e-003	0.0000	22.7068	22.7068	5.3000e-004	5.9000e-004	22.8967
<b>Total</b>	<b>8.2500e-003</b>	<b>6.8000e-003</b>	<b>0.0859</b>	<b>2.5000e-004</b>	<b>0.0289</b>	<b>1.4000e-004</b>	<b>0.0290</b>	<b>7.6600e-003</b>	<b>1.3000e-004</b>	<b>7.7900e-003</b>	<b>0.0000</b>	<b>22.7068</b>	<b>22.7068</b>	<b>5.3000e-004</b>	<b>5.9000e-004</b>	<b>22.8967</b>

**3.6 Architectural Coating - 2022**

**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	0.1452					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.6500e-003	0.0458	0.0589	1.0000e-004		2.6600e-003	2.6600e-003		2.6600e-003	2.6600e-003	0.0000	8.2981	8.2981	5.4000e-004	0.0000	8.3116
<b>Total</b>	<b>0.1519</b>	<b>0.0458</b>	<b>0.0589</b>	<b>1.0000e-004</b>		<b>2.6600e-003</b>	<b>2.6600e-003</b>		<b>2.6600e-003</b>	<b>2.6600e-003</b>	<b>0.0000</b>	<b>8.2981</b>	<b>8.2981</b>	<b>5.4000e-004</b>	<b>0.0000</b>	<b>8.3116</b>

13918 Ridge Ranch - Riverside-South Coast County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.6 Architectural Coating - 2022**

**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	0.0179	0.0147	0.1862	5.3000e-004	0.0625	3.1000e-004	0.0628	0.0166	2.9000e-004	0.0169	0.0000	49.1981	49.1981	1.1400e-003	1.2900e-003	49.6096
<b>Total</b>	<b>0.0179</b>	<b>0.0147</b>	<b>0.1862</b>	<b>5.3000e-004</b>	<b>0.0625</b>	<b>3.1000e-004</b>	<b>0.0628</b>	<b>0.0166</b>	<b>2.9000e-004</b>	<b>0.0169</b>	<b>0.0000</b>	<b>49.1981</b>	<b>49.1981</b>	<b>1.1400e-003</b>	<b>1.2900e-003</b>	<b>49.6096</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	0.1452					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.6500e-003	0.0458	0.0589	1.0000e-004		2.6600e-003	2.6600e-003		2.6600e-003	2.6600e-003	0.0000	8.2981	8.2981	5.4000e-004	0.0000	8.3116
<b>Total</b>	<b>0.1519</b>	<b>0.0458</b>	<b>0.0589</b>	<b>1.0000e-004</b>		<b>2.6600e-003</b>	<b>2.6600e-003</b>		<b>2.6600e-003</b>	<b>2.6600e-003</b>	<b>0.0000</b>	<b>8.2981</b>	<b>8.2981</b>	<b>5.4000e-004</b>	<b>0.0000</b>	<b>8.3116</b>

13918 Ridge Ranch - Riverside-South Coast County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.6 Architectural Coating - 2022**

**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	0.0179	0.0147	0.1862	5.3000e-004	0.0625	3.1000e-004	0.0628	0.0166	2.9000e-004	0.0169	0.0000	49.1981	49.1981	1.1400e-003	1.2900e-003	49.6096
<b>Total</b>	<b>0.0179</b>	<b>0.0147</b>	<b>0.1862</b>	<b>5.3000e-004</b>	<b>0.0625</b>	<b>3.1000e-004</b>	<b>0.0628</b>	<b>0.0166</b>	<b>2.9000e-004</b>	<b>0.0169</b>	<b>0.0000</b>	<b>49.1981</b>	<b>49.1981</b>	<b>1.1400e-003</b>	<b>1.2900e-003</b>	<b>49.6096</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

13918 Ridge Ranch - Riverside-South Coast County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1417	0.2391	1.3737	3.0600e-003	0.3027	3.0300e-003	0.3057	0.0809	2.8500e-003	0.0837	0.0000	284.7053	284.7053	0.0161	0.0151	289.5940
Unmitigated	0.1417	0.2391	1.3737	3.0600e-003	0.3027	3.0300e-003	0.3057	0.0809	2.8500e-003	0.0837	0.0000	284.7053	284.7053	0.0161	0.0151	289.5940

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
Hotel	300.96	294.84	214.20	799,988	799,988
Total	300.96	294.84	214.20	799,988	799,988

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	18.50	10.10	7.90	33.00	48.00	19.00	66	28	6
Hotel	18.50	10.10	7.90	19.40	61.60	19.00	58	38	4

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.531022	0.055789	0.171983	0.143721	0.027315	0.007422	0.011813	0.018850	0.000630	0.000321	0.024273	0.001102	0.005759
Hotel	0.531022	0.055789	0.171983	0.143721	0.027315	0.007422	0.011813	0.018850	0.000630	0.000321	0.024273	0.001102	0.005759

**5.0 Energy Detail**



13918 Ridge Ranch - Riverside-South Coast County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

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	96.9594	96.9594	8.1800e-003	9.9000e-004	97.4596
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	96.9594	96.9594	8.1800e-003	9.9000e-004	97.4596
NaturalGas Mitigated	0.0101	0.0913	0.0767	5.5000e-004		6.9400e-003	6.9400e-003		6.9400e-003	6.9400e-003	0.0000	99.4136	99.4136	1.9100e-003	1.8200e-003	100.0044
NaturalGas Unmitigated	0.0101	0.0913	0.0767	5.5000e-004		6.9400e-003	6.9400e-003		6.9400e-003	6.9400e-003	0.0000	99.4136	99.4136	1.9100e-003	1.8200e-003	100.0044

13918 Ridge Ranch - Riverside-South Coast County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**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					
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
Hotel	1.86294e+006	0.0101	0.0913	0.0767	5.5000e-004		6.9400e-003	6.9400e-003		6.9400e-003	6.9400e-003	0.0000	99.4136	99.4136	1.9100e-003	1.8200e-003	100.0044
<b>Total</b>		<b>0.0101</b>	<b>0.0913</b>	<b>0.0767</b>	<b>5.5000e-004</b>		<b>6.9400e-003</b>	<b>6.9400e-003</b>		<b>6.9400e-003</b>	<b>6.9400e-003</b>	<b>0.0000</b>	<b>99.4136</b>	<b>99.4136</b>	<b>1.9100e-003</b>	<b>1.8200e-003</b>	<b>100.0044</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					
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
Hotel	1.86294e+006	0.0101	0.0913	0.0767	5.5000e-004		6.9400e-003	6.9400e-003		6.9400e-003	6.9400e-003	0.0000	99.4136	99.4136	1.9100e-003	1.8200e-003	100.0044
<b>Total</b>		<b>0.0101</b>	<b>0.0913</b>	<b>0.0767</b>	<b>5.5000e-004</b>		<b>6.9400e-003</b>	<b>6.9400e-003</b>		<b>6.9400e-003</b>	<b>6.9400e-003</b>	<b>0.0000</b>	<b>99.4136</b>	<b>99.4136</b>	<b>1.9100e-003</b>	<b>1.8200e-003</b>	<b>100.0044</b>

13918 Ridge Ranch - Riverside-South Coast County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Hotel	546726	96.9594	8.1800e-003	9.9000e-004	97.4596
<b>Total</b>		<b>96.9594</b>	<b>8.1800e-003</b>	<b>9.9000e-004</b>	<b>97.4596</b>

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Hotel	546726	96.9594	8.1800e-003	9.9000e-004	97.4596
<b>Total</b>		<b>96.9594</b>	<b>8.1800e-003</b>	<b>9.9000e-004</b>	<b>97.4596</b>

**6.0 Area Detail**

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13918 Ridge Ranch - Riverside-South Coast County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**6.1 Mitigation Measures Area**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1421	1.0000e-005	9.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.7600e-003	1.7600e-003	0.0000	0.0000	1.8800e-003
Unmitigated	0.1421	1.0000e-005	9.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.7600e-003	1.7600e-003	0.0000	0.0000	1.8800e-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	tons/yr										MT/yr					
Architectural Coating	0.0145					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1275					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	8.0000e-005	1.0000e-005	9.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.7600e-003	1.7600e-003	0.0000	0.0000	1.8800e-003
<b>Total</b>	<b>0.1421</b>	<b>1.0000e-005</b>	<b>9.1000e-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>1.7600e-003</b>	<b>1.7600e-003</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.8800e-003</b>

13918 Ridge Ranch - Riverside-South Coast County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**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	0.0145					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1275					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	8.0000e-005	1.0000e-005	9.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.7600e-003	1.7600e-003	0.0000	0.0000	1.8800e-003
<b>Total</b>	<b>0.1421</b>	<b>1.0000e-005</b>	<b>9.1000e-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>1.7600e-003</b>	<b>1.7600e-003</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.8800e-003</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

13918 Ridge Ranch - Riverside-South Coast County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	84.5527	0.0369	1.5600e-003	85.9407
Unmitigated	84.5527	0.0369	1.5600e-003	85.9407

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 41.5946	81.9542	6.9200e-003	8.4000e-004	82.3770
Hotel	0.913204 / 0.101467	2.5984	0.0300	7.3000e-004	3.5636
<b>Total</b>		<b>84.5527</b>	<b>0.0369</b>	<b>1.5700e-003</b>	<b>85.9407</b>

13918 Ridge Ranch - Riverside-South Coast County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**7.2 Water by Land Use**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 41.5946	81.9542	6.9200e-003	8.4000e-004	82.3770
Hotel	0.913204 / 0.101467	2.5984	0.0300	7.3000e-004	3.5636
<b>Total</b>		<b>84.5527</b>	<b>0.0369</b>	<b>1.5700e-003</b>	<b>85.9407</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	4.6099	0.2724	0.0000	11.4209
Unmitigated	4.6099	0.2724	0.0000	11.4209

13918 Ridge Ranch - Riverside-South Coast County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	3	0.6090	0.0360	0.0000	1.5087
Hotel	19.71	4.0010	0.2365	0.0000	9.9122
<b>Total</b>		<b>4.6099</b>	<b>0.2724</b>	<b>0.0000</b>	<b>11.4209</b>

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	3	0.6090	0.0360	0.0000	1.5087
Hotel	19.71	4.0010	0.2365	0.0000	9.9122
<b>Total</b>		<b>4.6099</b>	<b>0.2724</b>	<b>0.0000</b>	<b>11.4209</b>

**9.0 Operational Offroad**

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13918 Ridge Ranch - Riverside-South Coast County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

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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