

**AIR QUALITY and GHG IMPACT ANALYSES**

**TTM NO.. 38468  
LYON AVENUE PROJECT**

**SAN JACINTO, CALIFORNIA**

prepared by:



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## BACKGROUND

The project is located at on the west side of Lyon Avenue in San Jacinto. The site is essentially flat and contains an existing several existing structures. Conversion of the site to 153 single family residential units will require demolition of any on-site structures. In addition to the homes there will be 289,700 sf of paved surfaces.

## AIR QUALITY IMPACT

### STANDARDS OF SIGNIFICANCE

The SCAQMD has designated significant emissions levels as surrogates for evaluating regional air quality impact significance independent of chemical transformation processes. Projects with daily emissions that exceed any of the following emission thresholds are recommended by the SCAQMD to be considered significant under CEQA guidelines.

<b>Daily Emissions Thresholds</b>		
<b>Pollutant</b>	<b>Construction</b>	<b>Operations</b>
ROG	75	55
NOx	100	55
CO	550	550
PM-10	150	150
PM-2.5	55	55
SOx	150	150
Lead	3	3

Source: SCAQMD CEQA Air Quality Handbook, November, 1993 Rev.

### CONSTRUCTION ACTIVITY IMPACTS

CalEEMod was developed by the SCAQMD to provide a model by which to calculate both construction emissions and operational emissions from a variety of land use projects. It calculates both the daily maximum and annual average emissions for criteria pollutants as well as total or annual greenhouse gas (GHG) emissions.

The existing on-site structures will be demolished as part of the Project. The project proposes construction of 153 detached single-family dwellings on 42.19 acres and 289,700 sf of paved surfaces (6.65 acres). Estimated construction emissions were modeled using CalEEMod2020.4.0 to identify maximum daily emissions for each pollutant using default durations and equipment fleets found in CalEEMod for the proposed use.

### Construction Activity Equipment Fleet

Phase Name and Duration	Equipment
Demolition (30 days)	1 Concrete Saw
	3 Excavators
	2 Dozers
Grading (45 days)	1 Grader
	2 Excavators
	1 Dozer
	2 Scrapers
	2 Loader/Backhoes
Construction (440 days)	1 Crane
	1 Generator Set
	1 Welder
	3 Forklifts
	3 Loader/Backhoes
Paving (35 days)	2 Pavers
	2 Paving Equipment
	2 Rollers

Utilizing the indicated equipment fleet and durations the following worst-case daily construction emissions are calculated by CalEEMod:

### Construction Activity Emissions Maximum Daily Emissions (pounds/day)

Maximal Construction Emissions	ROG	NOx	CO	SO <sub>2</sub>	PM-10	PM-2.5
<b>2024</b>	3.3	32.4	28.4	0.1	5.1	2.7
<b>2025</b>	2.0	14.8	22.6	0.1	2.9	1.2
<b>2026</b>	51.8	14.8	22.2	0.1	2.9	1.2
SCAQMD Thresholds	75	100	550	150	150	55

\*with mandatory compliance with SCAQMD Rule 403

Peak daily construction activity emissions are estimated be below SCAQMD CEQA thresholds with required compliance with SCAQMD Rule 403 for fugitive dust which requires watering of dust at least three times a day during grading activities.

## LOCALIZED SIGNIFICANCE THRESHOLDS

The SCAQMD has developed analysis parameters to evaluate ambient air quality on a local level in addition to the more regional emissions-based thresholds of significance. These analysis elements are called Localized Significance Thresholds (LSTs).

For the proposed project, the primary source of possible LST impact would be during construction. LSTs are applicable for a sensitive receptor where it is possible that an individual could remain for 24 hours such as a residence, hospital or convalescent facility.

LSTs are only applicable to the following criteria pollutants: oxides of nitrogen (NO<sub>x</sub>), carbon monoxide (CO), and particulate matter (PM-10 and PM-2.5). LSTs represent the maximum emissions from a project that are not expected to cause or contribute to an exceedance of the most stringent applicable federal or state ambient air quality standard and are developed based on the ambient concentrations of that pollutant for each source receptor area and distance to the nearest sensitive receptor.

LST screening tables are available for 25, 50, 100, 200 and 500 meter source-receptor distances. For this project, there are adjacent residential uses such that the most conservative 25-meter distance was modeled.

The SCAQMD has issued guidance on applying CalEEMod to LSTs. LST pollutant screening level concentration data is currently published for 1, 2 and 5 acre sites. LSTs are based on the ambient concentrations of that pollutant and the distance to the nearest sensitive receptor. LST analysis for construction is applicable for all projects of five acres and less; however, it can be used as screening criteria for larger projects to determine whether dispersion modeling may be required. For this project based on methodology established by the SCAQMD for the use of CalEEMod construction emissions to LST thresholds, a daily construction area of 3.0 acres was used<sup>1</sup> in this analysis, derived with interpolation of the available tables.

The following thresholds and emissions are therefore determined (pounds per day):

**LST and Project Emissions (pounds/day)**

<b>LST 3 acre/25 meters Hemet/San Jacinto Valley</b>	<b>CO</b>	<b>NO<sub>x</sub></b>	<b>PM-10</b>	<b>PM-2.5</b>
<b>LST Threshold</b>	1,388	280	9	5
<b>Max On-Site Emissions*</b>				
<b>2024</b>	28	32	5	3
<b>2025</b>	23	15	3	1
<b>2026</b>	22	15	3	1

\*only on-site emissions, excludes mobile source

LSTs were compared to the maximum daily construction activities. Emissions meet the LST for construction thresholds. LST impacts are less-than-significant.

<sup>1</sup> <http://www.aqmd.gov/docs/default-source/ceqa/handbook/localized-significance-thresholds/caleemod-guidance.pdf?sfvrsn=2> Fact Sheet for Applying CalEEMod to Localized Significance Thresholds

## OPERATIONAL IMPACTS

Operational emissions were calculated using CalEEMod2020.4.0 for an assumed project build-out year of 2026 as a target for full occupancy. The project would generate 1,443 daily trips according to the traffic report prepared for this analysis. In addition to mobile sources from vehicles, general development causes smaller amounts of “area source” air pollution to be generated from on-site energy consumption (primarily space heating, hot water and landscaping). These sources represent a minimal percentage of the total project NO<sub>x</sub> and CO burdens, and a few percent of other pollutants. The inclusion of such emissions adds negligibly to the total significant project-related emissions burden as shown below.

### Daily Operational Impacts

Source	Operational Emissions (lbs/day)					
	ROG	NO <sub>x</sub>	CO	SO <sub>2</sub>	PM-10	PM-2.5
Area *	6.7	2.4	13.6	0.0	0.2	0.3
Energy	0.1	1.1	0.5	0.0	0.1	0.1
Mobile	4.3	5.5	42.0	0.1	10.5	2.8
<b>Total</b>	<b>11.1</b>	<b>9.0</b>	<b>56.1</b>	<b>0.1</b>	<b>10.8</b>	<b>3.2</b>
SCAQMD Threshold	55	55	550	150	150	55
Exceeds Threshold?	No	No	No	No	No	No

Source: CalEEMod2020.4.0 Output in Appendix

\*natural gas hearths (no wood burning fireplaces)

The project would not cause any operational emissions to exceed their respective SCAQMD CEQA significance thresholds. Operational emission impacts are judged to be less than significant. No impact mitigation for operational activity emissions is considered necessary to support this finding.

## GHG EMISSIONS THRESHOLDS

On December 5, 2008, the SCAQMD Governing Board adopted an Interim quantitative GHG Significance Threshold for industrial projects where the SCAQMD is the lead agency (e.g., stationary source permit projects, rules, plans, etc.) of 10,000 Metric Tons (MT) CO<sub>2</sub> equivalent/year CO<sub>2</sub>e. In September 2010, the SCAQMD CEQA Significance Thresholds GHG Working Group released revisions which recommended a threshold of 3,000 MT CO<sub>2</sub>e for all land use projects. This 3,000 MT/year recommendation has been used as a guideline for this analysis. In the absence of an adopted numerical threshold of significance, project related GHG emissions in excess of the guideline level are presumed to trigger a requirement for enhanced GHG reduction at the project level.

## PROJECT GHG EMISSIONS GENERATION

### Construction Activity GHG Emissions

During project construction, the CalEEMod2020.4.0 computer model predicts that the construction activities will generate the annual CO<sub>2</sub>e emissions identified below.

#### Construction Emissions (Metric Tons CO<sub>2</sub>e)

	CO <sub>2</sub> e
Year 2024	576.1
Year 2025	628.4
Year 2026	86.9
Total	1,291.4
<b>Amortized</b>	<b>43.1</b>

CalEEMod Output provided in appendix

SCAQMD GHG emissions policy from construction activities is to amortize emissions over a 30-year lifetime. The amortized level is also provided. GHG impacts from construction are considered individually less-than-significant.

### Project Operational GHG Emissions

The input assumptions for operational GHG emissions calculations and the GHG conversion from consumption to annual regional CO<sub>2</sub>e emissions are summarized in the CalEEMod2020.4.0 output files found in the appendix of this report.

The total operational and annualized construction emissions for the proposed project are identified as follows:

#### Operational Emissions 2026

Consumption Source	
Area Sources	35.9
Energy Utilization	449.5
Mobile Source	1593.6
Waste	90.3
Water	49.2
Construction	43.1
<b>Total</b>	<b>2,261.6</b>
Guideline Threshold	3,000
Exceeds Threshold?	No

Total project GHG emissions would be substantially below the proposed significance threshold of 3,000 MT suggested by the SCAQMD. Hence, the project would not result in generation of a significant level of greenhouse gases.

## **CONSISTENCY WITH GHG PLANS, PROGRAMS AND POLICIES**

The City of San Jacinto is participating the Western Riverside Council of Governments (WRCOG) Subregional Climate Action Plan. The WRCOG Subregional CAP establishes a community-wide emissions reduction target of 15% below 2010, following guidance from CARB and the Governor's Office of Planning and Research. CARB and the California Attorney General have determined this approach to be consistent with the state-wide AB 32 goal of reducing emissions to 1990 levels.

The project's total operational and amortized construction emissions are 2,261.6 MT CO<sub>2</sub>e per year and do not exceed the SCAQMD draft threshold. The proposed project would also be anticipated to be consistent with the WRCOG Subregional CAP with the following project design features, which include standard rules and requirements and recognized building design elements which will help reduce GHG emissions.

### Operational Design Features:

- No wood burning fireplaces will be installed in any residential dwelling.
- The future residences would be outfitted with low flow toilets and energy efficient appliances. Solar would be installed concurrent with development of each residence as required by the California Energy Code.
- The project will include a landscaping consistent with the requirements of the City's Development Code Chapter 17.325, Water Efficient Landscape and Irrigation. Additionally, the proposed subdivision would comply with the City's Landscape Design Guidelines.
- The project will comply with the mandatory requirements of California Building Standards Code Title 24 Part 6 (Energy Code) and Title 24 Part 11 (CAL Green).
- The project will comply with the mandatory requirements of City of San Jacinto/CalRecycle's residential recycling program.
- The homeowner's association will encourage residents and landscape maintenance crews to use electric landscaping equipment, such as lawn mowers and leaf blowers. Therefore, the project will not conflict with an applicable plan, policy, or regulation for the purpose of reducing the emissions of greenhouse gases and the impact is considered less than significant.

## **CALEEMOD2020.4.0 COMPUTER MODEL OUTPUT**

- **DAILY EMISISONS**
- **ANNUAL EMISSIONS**



Lyon 153 - Riverside-South Coast County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**Lyon 153**

**Riverside-South Coast County, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	153.00	Dwelling Unit	22.70	275,400.00	438
Other Asphalt Surfaces	289.70	1000sqft	6.65	289,700.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.4	<b>Precipitation Freq (Days)</b>	28
<b>Climate Zone</b>	10			<b>Operational Year</b>	2026
<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 - actual site acreage

Construction Phase -

Vehicle Trips - 9.43 trip gen rate per traffic analysis

Construction Off-road Equipment Mitigation -

Area Mitigation -

Table Name	Column Name	Default Value	New Value
tblLandUse	LotAcreage	49.68	22.70
tblVehicleTrips	ST_TR	9.54	9.43
tblVehicleTrips	SU_TR	8.55	9.43

Lyon 153 - Riverside-South Coast County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

tblVehicleTrips	WD_TR	9.44	9.43
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**2.0 Emissions Summary**

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Lyon 153 - Riverside-South Coast County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
2024	3.2862	32.4172	28.4068	0.0640	9.4271	1.3364	10.7635	3.7130	1.2295	4.9425	0.0000	6,202.170 0	6,202.170 0	1.9478	0.2108	6,252.165 0
2025	2.0002	14.8624	22.5558	0.0540	2.3883	0.5540	2.9424	0.6427	0.5213	1.1640	0.0000	5,348.212 5	5,348.212 5	0.6471	0.2049	5,425.445 7
2026	51.8128	14.8113	22.1920	0.0533	2.3883	0.5535	2.9419	0.6427	0.5208	1.1635	0.0000	5,275.908 3	5,275.908 3	0.7163	0.1994	5,351.428 9
<b>Maximum</b>	<b>51.8128</b>	<b>32.4172</b>	<b>28.4068</b>	<b>0.0640</b>	<b>9.4271</b>	<b>1.3364</b>	<b>10.7635</b>	<b>3.7130</b>	<b>1.2295</b>	<b>4.9425</b>	<b>0.0000</b>	<b>6,202.170 0</b>	<b>6,202.170 0</b>	<b>1.9478</b>	<b>0.2108</b>	<b>6,252.165 0</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					
2024	3.2862	32.4172	28.4068	0.0640	3.8130	1.3364	5.1494	1.4843	1.2295	2.7137	0.0000	6,202.170 0	6,202.170 0	1.9478	0.2108	6,252.165 0
2025	2.0002	14.8624	22.5558	0.0540	2.3883	0.5540	2.9424	0.6427	0.5213	1.1640	0.0000	5,348.212 5	5,348.212 5	0.6471	0.2049	5,425.445 7
2026	51.8128	14.8113	22.1920	0.0533	2.3883	0.5535	2.9419	0.6427	0.5208	1.1635	0.0000	5,275.908 3	5,275.908 3	0.7163	0.1994	5,351.428 9
<b>Maximum</b>	<b>51.8128</b>	<b>32.4172</b>	<b>28.4068</b>	<b>0.0640</b>	<b>3.8130</b>	<b>1.3364</b>	<b>5.1494</b>	<b>1.4843</b>	<b>1.2295</b>	<b>2.7137</b>	<b>0.0000</b>	<b>6,202.170 0</b>	<b>6,202.170 0</b>	<b>1.9478</b>	<b>0.2108</b>	<b>6,252.165 0</b>

## Lyon 153 - Riverside-South Coast County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	39.53	0.00	33.72	44.59	0.00	30.66	0.00	0.00	0.00	0.00	0.00	0.00

Lyon 153 - Riverside-South Coast County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	46.5226	3.3200	90.4487	0.1992		11.7575	11.7575		11.7575	11.7575	1,433.1385	2,776.7919	4,209.9304	4.2958	0.0973	4,346.3129
Energy	0.1279	1.0927	0.4650	6.9700e-003		0.0884	0.0884		0.0884	0.0884		1,394.9724	1,394.9724	0.0267	0.0256	1,403.2620
Mobile	4.3018	5.5111	41.9902	0.0988	10.4154	0.0749	10.4903	2.7784	0.0702	2.8486		10,066.9131	10,066.9131	0.4752	0.4575	10,215.1187
<b>Total</b>	<b>50.9522</b>	<b>9.9239</b>	<b>132.9039</b>	<b>0.3049</b>	<b>10.4154</b>	<b>11.9207</b>	<b>22.3361</b>	<b>2.7784</b>	<b>11.9160</b>	<b>14.6945</b>	<b>1,433.1385</b>	<b>14,238.6774</b>	<b>15,671.8159</b>	<b>4.7977</b>	<b>0.5803</b>	<b>15,964.6936</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	6.6984	2.4297	13.6122	0.0153		0.2548	0.2548		0.2548	0.2548	0.0000	2,938.7919	2,938.7919	0.0778	0.0535	2,956.6685
Energy	0.1279	1.0927	0.4650	6.9700e-003		0.0884	0.0884		0.0884	0.0884		1,394.9724	1,394.9724	0.0267	0.0256	1,403.2620
Mobile	4.3018	5.5111	41.9902	0.0988	10.4154	0.0749	10.4903	2.7784	0.0702	2.8486		10,066.9131	10,066.9131	0.4752	0.4575	10,215.1187
<b>Total</b>	<b>11.1280</b>	<b>9.0336</b>	<b>56.0674</b>	<b>0.1210</b>	<b>10.4154</b>	<b>0.4180</b>	<b>10.8334</b>	<b>2.7784</b>	<b>0.4133</b>	<b>3.1917</b>	<b>0.0000</b>	<b>14,400.6774</b>	<b>14,400.6774</b>	<b>0.5797</b>	<b>0.5365</b>	<b>14,575.0492</b>

Lyon 153 - Riverside-South Coast County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	78.16	8.97	57.81	60.31	0.00	96.49	51.50	0.00	96.53	78.28	100.00	-1.14	8.11	87.92	7.55	8.70

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/8/2024	2/16/2024	5	30	
2	Grading	Grading	3/16/2024	5/17/2024	5	45	
3	Building Construction	Building Construction	5/18/2024	1/23/2026	5	440	
4	Paving	Paving	1/24/2026	3/13/2026	5	35	
5	Architectural Coating	Architectural Coating	3/14/2026	5/1/2026	5	35	

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

**Acres of Grading (Grading Phase): 135**

**Acres of Paving: 6.65**

**Residential Indoor: 557,685; Residential Outdoor: 185,895; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 17,382 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Building Construction	Cranes	1	7.00	231	0.29
Demolition	Excavators	3	8.00	158	0.38
Grading	Excavators	2	8.00	158	0.38
Building Construction	Forklifts	3	8.00	89	0.20

Lyon 153 - Riverside-South Coast County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Graders	1	8.00	187	0.41
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
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Architectural Coating	1	35.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	177.00	64.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Demolition	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Water Exposed Area

Lyon 153 - Riverside-South Coast County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.2 Demolition - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.2437	20.8781	19.7073	0.0388		0.9602	0.9602		0.8922	0.8922		3,747.4228	3,747.4228	1.0485		3,773.6345
<b>Total</b>	<b>2.2437</b>	<b>20.8781</b>	<b>19.7073</b>	<b>0.0388</b>		<b>0.9602</b>	<b>0.9602</b>		<b>0.8922</b>	<b>0.8922</b>		<b>3,747.4228</b>	<b>3,747.4228</b>	<b>1.0485</b>		<b>3,773.6345</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0510	0.0301	0.5130	1.4300e-003	0.1677	7.5000e-004	0.1684	0.0445	6.9000e-004	0.0452		144.3160	144.3160	3.1200e-003	3.2700e-003	145.3683
<b>Total</b>	<b>0.0510</b>	<b>0.0301</b>	<b>0.5130</b>	<b>1.4300e-003</b>	<b>0.1677</b>	<b>7.5000e-004</b>	<b>0.1684</b>	<b>0.0445</b>	<b>6.9000e-004</b>	<b>0.0452</b>		<b>144.3160</b>	<b>144.3160</b>	<b>3.1200e-003</b>	<b>3.2700e-003</b>	<b>145.3683</b>



Lyon 153 - Riverside-South Coast County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.2 Demolition - 2024**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.2437	20.8781	19.7073	0.0388		0.9602	0.9602		0.8922	0.8922	0.0000	3,747.4228	3,747.4228	1.0485		3,773.6345
<b>Total</b>	<b>2.2437</b>	<b>20.8781</b>	<b>19.7073</b>	<b>0.0388</b>		<b>0.9602</b>	<b>0.9602</b>		<b>0.8922</b>	<b>0.8922</b>	<b>0.0000</b>	<b>3,747.4228</b>	<b>3,747.4228</b>	<b>1.0485</b>		<b>3,773.6345</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	0.0510	0.0301	0.5130	1.4300e-003	0.1677	7.5000e-004	0.1684	0.0445	6.9000e-004	0.0452		144.3160	144.3160	3.1200e-003	3.2700e-003	145.3683
<b>Total</b>	<b>0.0510</b>	<b>0.0301</b>	<b>0.5130</b>	<b>1.4300e-003</b>	<b>0.1677</b>	<b>7.5000e-004</b>	<b>0.1684</b>	<b>0.0445</b>	<b>6.9000e-004</b>	<b>0.0452</b>		<b>144.3160</b>	<b>144.3160</b>	<b>3.1200e-003</b>	<b>3.2700e-003</b>	<b>145.3683</b>

Lyon 153 - Riverside-South Coast County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.3 Grading - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.2036	0.0000	9.2036	3.6538	0.0000	3.6538			0.0000			0.0000
Off-Road	3.2181	32.3770	27.7228	0.0621		1.3354	1.3354		1.2286	1.2286		6,009.7487	6,009.7487	1.9437		6,058.3405
<b>Total</b>	<b>3.2181</b>	<b>32.3770</b>	<b>27.7228</b>	<b>0.0621</b>	<b>9.2036</b>	<b>1.3354</b>	<b>10.5390</b>	<b>3.6538</b>	<b>1.2286</b>	<b>4.8823</b>		<b>6,009.7487</b>	<b>6,009.7487</b>	<b>1.9437</b>		<b>6,058.3405</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	0.0681	0.0402	0.6840	1.9000e-003	0.2236	1.0000e-003	0.2246	0.0593	9.2000e-004	0.0602		192.4214	192.4214	4.1600e-003	4.3600e-003	193.8244
<b>Total</b>	<b>0.0681</b>	<b>0.0402</b>	<b>0.6840</b>	<b>1.9000e-003</b>	<b>0.2236</b>	<b>1.0000e-003</b>	<b>0.2246</b>	<b>0.0593</b>	<b>9.2000e-004</b>	<b>0.0602</b>		<b>192.4214</b>	<b>192.4214</b>	<b>4.1600e-003</b>	<b>4.3600e-003</b>	<b>193.8244</b>

Lyon 153 - Riverside-South Coast County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.3 Grading - 2024**

**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					3.5894	0.0000	3.5894	1.4250	0.0000	1.4250			0.0000			0.0000
Off-Road	3.2181	32.3770	27.7228	0.0621		1.3354	1.3354		1.2286	1.2286	0.0000	6,009.7487	6,009.7487	1.9437		6,058.3405
<b>Total</b>	<b>3.2181</b>	<b>32.3770</b>	<b>27.7228</b>	<b>0.0621</b>	<b>3.5894</b>	<b>1.3354</b>	<b>4.9248</b>	<b>1.4250</b>	<b>1.2286</b>	<b>2.6535</b>	<b>0.0000</b>	<b>6,009.7487</b>	<b>6,009.7487</b>	<b>1.9437</b>		<b>6,058.3405</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	0.0681	0.0402	0.6840	1.9000e-003	0.2236	1.0000e-003	0.2246	0.0593	9.2000e-004	0.0602		192.4214	192.4214	4.1600e-003	4.3600e-003	193.8244
<b>Total</b>	<b>0.0681</b>	<b>0.0402</b>	<b>0.6840</b>	<b>1.9000e-003</b>	<b>0.2236</b>	<b>1.0000e-003</b>	<b>0.2246</b>	<b>0.0593</b>	<b>9.2000e-004</b>	<b>0.0602</b>		<b>192.4214</b>	<b>192.4214</b>	<b>4.1600e-003</b>	<b>4.3600e-003</b>	<b>193.8244</b>

Lyon 153 - Riverside-South Coast County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.4 Building Construction - 2024**

**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	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769		2,555.6989	2,555.6989	0.6044		2,570.8077
<b>Total</b>	<b>1.4716</b>	<b>13.4438</b>	<b>16.1668</b>	<b>0.0270</b>		<b>0.6133</b>	<b>0.6133</b>		<b>0.5769</b>	<b>0.5769</b>		<b>2,555.6989</b>	<b>2,555.6989</b>	<b>0.6044</b>		<b>2,570.8077</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	0.0710	2.0911	0.8511	0.0110	0.4099	0.0181	0.4280	0.1180	0.0173	0.1353		1,167.4597	1,167.4597	0.0125	0.1723	1,219.1048
Worker	0.6023	0.3557	6.0535	0.0169	1.9784	8.8300e-003	1.9873	0.5247	8.1200e-003	0.5328		1,702.9290	1,702.9290	0.0368	0.0386	1,715.3461
<b>Total</b>	<b>0.6733</b>	<b>2.4468</b>	<b>6.9046</b>	<b>0.0279</b>	<b>2.3884</b>	<b>0.0269</b>	<b>2.4153</b>	<b>0.6427</b>	<b>0.0254</b>	<b>0.6682</b>		<b>2,870.3887</b>	<b>2,870.3887</b>	<b>0.0494</b>	<b>0.2108</b>	<b>2,934.4509</b>

Lyon 153 - Riverside-South Coast County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.4 Building Construction - 2024**

**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	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769	0.0000	2,555.6989	2,555.6989	0.6044		2,570.8077
<b>Total</b>	<b>1.4716</b>	<b>13.4438</b>	<b>16.1668</b>	<b>0.0270</b>		<b>0.6133</b>	<b>0.6133</b>		<b>0.5769</b>	<b>0.5769</b>	<b>0.0000</b>	<b>2,555.6989</b>	<b>2,555.6989</b>	<b>0.6044</b>		<b>2,570.8077</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	0.0710	2.0911	0.8511	0.0110	0.4099	0.0181	0.4280	0.1180	0.0173	0.1353		1,167.4597	1,167.4597	0.0125	0.1723	1,219.1048
Worker	0.6023	0.3557	6.0535	0.0169	1.9784	8.8300e-003	1.9873	0.5247	8.1200e-003	0.5328		1,702.9290	1,702.9290	0.0368	0.0386	1,715.3461
<b>Total</b>	<b>0.6733</b>	<b>2.4468</b>	<b>6.9046</b>	<b>0.0279</b>	<b>2.3884</b>	<b>0.0269</b>	<b>2.4153</b>	<b>0.6427</b>	<b>0.0254</b>	<b>0.6682</b>		<b>2,870.3887</b>	<b>2,870.3887</b>	<b>0.0494</b>	<b>0.2108</b>	<b>2,934.4509</b>

Lyon 153 - Riverside-South Coast County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.4 Building Construction - 2025**

**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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>		<b>2,556.474 4</b>	<b>2,556.474 4</b>	<b>0.6010</b>		<b>2,571.498 1</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	0.0701	2.0739	0.8415	0.0108	0.4099	0.0181	0.4280	0.1180	0.0173	0.1353		1,146.880 6	1,146.880 6	0.0130	0.1689	1,197.531 7
Worker	0.5627	0.3188	5.6297	0.0163	1.9784	8.3800e-003	1.9868	0.5247	7.7100e-003	0.5324		1,644.857 5	1,644.857 5	0.0332	0.0360	1,656.415 9
<b>Total</b>	<b>0.6328</b>	<b>2.3927</b>	<b>6.4711</b>	<b>0.0271</b>	<b>2.3883</b>	<b>0.0265</b>	<b>2.4148</b>	<b>0.6427</b>	<b>0.0250</b>	<b>0.6677</b>		<b>2,791.738 2</b>	<b>2,791.738 2</b>	<b>0.0462</b>	<b>0.2049</b>	<b>2,853.947 6</b>

Lyon 153 - Riverside-South Coast County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.4 Building Construction - 2025**

**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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>	<b>0.0000</b>	<b>2,556.474 4</b>	<b>2,556.474 4</b>	<b>0.6010</b>		<b>2,571.498 1</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	0.0701	2.0739	0.8415	0.0108	0.4099	0.0181	0.4280	0.1180	0.0173	0.1353		1,146.880 6	1,146.880 6	0.0130	0.1689	1,197.531 7
Worker	0.5627	0.3188	5.6297	0.0163	1.9784	8.3800e-003	1.9868	0.5247	7.7100e-003	0.5324		1,644.857 5	1,644.857 5	0.0332	0.0360	1,656.415 9
<b>Total</b>	<b>0.6328</b>	<b>2.3927</b>	<b>6.4711</b>	<b>0.0271</b>	<b>2.3883</b>	<b>0.0265</b>	<b>2.4148</b>	<b>0.6427</b>	<b>0.0250</b>	<b>0.6677</b>		<b>2,791.738 2</b>	<b>2,791.738 2</b>	<b>0.0462</b>	<b>0.2049</b>	<b>2,853.947 6</b>

Lyon 153 - Riverside-South Coast County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.4 Building Construction - 2026**

**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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>		<b>2,556.474 4</b>	<b>2,556.474 4</b>	<b>0.6010</b>		<b>2,571.498 1</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	0.0692	2.0531	0.8334	0.0106	0.4099	0.0180	0.4279	0.1180	0.0172	0.1353		1,126.014 3	1,126.014 3	0.0134	0.1655	1,175.665 5
Worker	0.5284	0.2885	5.2739	0.0158	1.9784	7.9300e-003	1.9864	0.5247	7.3000e-003	0.5320		1,593.419 7	1,593.419 7	0.0301	0.0339	1,604.265 4
<b>Total</b>	<b>0.5976</b>	<b>2.3417</b>	<b>6.1073</b>	<b>0.0264</b>	<b>2.3883</b>	<b>0.0260</b>	<b>2.4143</b>	<b>0.6427</b>	<b>0.0245</b>	<b>0.6673</b>		<b>2,719.434 0</b>	<b>2,719.434 0</b>	<b>0.0435</b>	<b>0.1994</b>	<b>2,779.930 8</b>



Lyon 153 - Riverside-South Coast County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.4 Building Construction - 2026**

**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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>	<b>0.0000</b>	<b>2,556.474 4</b>	<b>2,556.474 4</b>	<b>0.6010</b>		<b>2,571.498 1</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	0.0692	2.0531	0.8334	0.0106	0.4099	0.0180	0.4279	0.1180	0.0172	0.1353		1,126.014 3	1,126.014 3	0.0134	0.1655	1,175.665 5
Worker	0.5284	0.2885	5.2739	0.0158	1.9784	7.9300e-003	1.9864	0.5247	7.3000e-003	0.5320		1,593.419 7	1,593.419 7	0.0301	0.0339	1,604.265 4
<b>Total</b>	<b>0.5976</b>	<b>2.3417</b>	<b>6.1073</b>	<b>0.0264</b>	<b>2.3883</b>	<b>0.0260</b>	<b>2.4143</b>	<b>0.6427</b>	<b>0.0245</b>	<b>0.6673</b>		<b>2,719.434 0</b>	<b>2,719.434 0</b>	<b>0.0435</b>	<b>0.1994</b>	<b>2,779.930 8</b>

Lyon 153 - Riverside-South Coast County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.5 Paving - 2026**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.745 2	2,206.745 2	0.7137		2,224.587 8
Paving	0.4978					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.4130</b>	<b>8.5816</b>	<b>14.5780</b>	<b>0.0228</b>		<b>0.4185</b>	<b>0.4185</b>		<b>0.3850</b>	<b>0.3850</b>		<b>2,206.745 2</b>	<b>2,206.745 2</b>	<b>0.7137</b>		<b>2,224.587 8</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	0.0448	0.0245	0.4469	1.3400e-003	0.1677	6.7000e-004	0.1683	0.0445	6.2000e-004	0.0451		135.0356	135.0356	2.5500e-003	2.8700e-003	135.9547
<b>Total</b>	<b>0.0448</b>	<b>0.0245</b>	<b>0.4469</b>	<b>1.3400e-003</b>	<b>0.1677</b>	<b>6.7000e-004</b>	<b>0.1683</b>	<b>0.0445</b>	<b>6.2000e-004</b>	<b>0.0451</b>		<b>135.0356</b>	<b>135.0356</b>	<b>2.5500e-003</b>	<b>2.8700e-003</b>	<b>135.9547</b>

Lyon 153 - Riverside-South Coast County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.5 Paving - 2026**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850	0.0000	2,206.745 2	2,206.745 2	0.7137		2,224.587 8
Paving	0.4978					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.4130</b>	<b>8.5816</b>	<b>14.5780</b>	<b>0.0228</b>		<b>0.4185</b>	<b>0.4185</b>		<b>0.3850</b>	<b>0.3850</b>	<b>0.0000</b>	<b>2,206.745 2</b>	<b>2,206.745 2</b>	<b>0.7137</b>		<b>2,224.587 8</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	0.0448	0.0245	0.4469	1.3400e-003	0.1677	6.7000e-004	0.1683	0.0445	6.2000e-004	0.0451		135.0356	135.0356	2.5500e-003	2.8700e-003	135.9547
<b>Total</b>	<b>0.0448</b>	<b>0.0245</b>	<b>0.4469</b>	<b>1.3400e-003</b>	<b>0.1677</b>	<b>6.7000e-004</b>	<b>0.1683</b>	<b>0.0445</b>	<b>6.2000e-004</b>	<b>0.0451</b>		<b>135.0356</b>	<b>135.0356</b>	<b>2.5500e-003</b>	<b>2.8700e-003</b>	<b>135.9547</b>

Lyon 153 - Riverside-South Coast County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.6 Architectural Coating - 2026**

**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	51.5375					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
<b>Total</b>	<b>51.7084</b>	<b>1.1455</b>	<b>1.8091</b>	<b>2.9700e-003</b>		<b>0.0515</b>	<b>0.0515</b>		<b>0.0515</b>	<b>0.0515</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>		<b>281.8319</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	0.1045	0.0571	1.0429	3.1200e-003	0.3912	1.5700e-003	0.3928	0.1038	1.4400e-003	0.1052		315.0830	315.0830	5.9500e-003	6.7000e-003	317.2276
<b>Total</b>	<b>0.1045</b>	<b>0.0571</b>	<b>1.0429</b>	<b>3.1200e-003</b>	<b>0.3912</b>	<b>1.5700e-003</b>	<b>0.3928</b>	<b>0.1038</b>	<b>1.4400e-003</b>	<b>0.1052</b>		<b>315.0830</b>	<b>315.0830</b>	<b>5.9500e-003</b>	<b>6.7000e-003</b>	<b>317.2276</b>

Lyon 153 - Riverside-South Coast County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.6 Architectural Coating - 2026**

**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	51.5375					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319
<b>Total</b>	<b>51.7084</b>	<b>1.1455</b>	<b>1.8091</b>	<b>2.9700e-003</b>		<b>0.0515</b>	<b>0.0515</b>		<b>0.0515</b>	<b>0.0515</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>		<b>281.8319</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	0.1045	0.0571	1.0429	3.1200e-003	0.3912	1.5700e-003	0.3928	0.1038	1.4400e-003	0.1052		315.0830	315.0830	5.9500e-003	6.7000e-003	317.2276
<b>Total</b>	<b>0.1045</b>	<b>0.0571</b>	<b>1.0429</b>	<b>3.1200e-003</b>	<b>0.3912</b>	<b>1.5700e-003</b>	<b>0.3928</b>	<b>0.1038</b>	<b>1.4400e-003</b>	<b>0.1052</b>		<b>315.0830</b>	<b>315.0830</b>	<b>5.9500e-003</b>	<b>6.7000e-003</b>	<b>317.2276</b>

Lyon 153 - Riverside-South Coast County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	4.3018	5.5111	41.9902	0.0988	10.4154	0.0749	10.4903	2.7784	0.0702	2.8486		10,066.91 31	10,066.91 31	0.4752	0.4575	10,215.11 87
Unmitigated	4.3018	5.5111	41.9902	0.0988	10.4154	0.0749	10.4903	2.7784	0.0702	2.8486		10,066.91 31	10,066.91 31	0.4752	0.4575	10,215.11 87

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Single Family Housing	1,442.79	1,442.79	1,442.79	4,930,233	4,930,233
<b>Total</b>	<b>1,442.79</b>	<b>1,442.79</b>	<b>1,442.79</b>	<b>4,930,233</b>	<b>4,930,233</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
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Single Family Housing	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3

**4.4 Fleet Mix**

Lyon 153 - Riverside-South Coast County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.540541	0.056458	0.173793	0.136090	0.025268	0.007074	0.011525	0.018705	0.000610	0.000304	0.023606	0.001094	0.004932
Single Family Housing	0.540541	0.056458	0.173793	0.136090	0.025268	0.007074	0.011525	0.018705	0.000610	0.000304	0.023606	0.001094	0.004932

**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	0.1279	1.0927	0.4650	6.9700e-003		0.0884	0.0884		0.0884	0.0884		1,394.9724	1,394.9724	0.0267	0.0256	1,403.2620
NaturalGas Unmitigated	0.1279	1.0927	0.4650	6.9700e-003		0.0884	0.0884		0.0884	0.0884		1,394.9724	1,394.9724	0.0267	0.0256	1,403.2620

Lyon 153 - Riverside-South Coast County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	11857.3	0.1279	1.0927	0.4650	6.9700e-003		0.0884	0.0884		0.0884	0.0884		1,394.9724	1,394.9724	0.0267	0.0256	1,403.2620
<b>Total</b>		<b>0.1279</b>	<b>1.0927</b>	<b>0.4650</b>	<b>6.9700e-003</b>		<b>0.0884</b>	<b>0.0884</b>		<b>0.0884</b>	<b>0.0884</b>		<b>1,394.9724</b>	<b>1,394.9724</b>	<b>0.0267</b>	<b>0.0256</b>	<b>1,403.2620</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					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	11.8573	0.1279	1.0927	0.4650	6.9700e-003		0.0884	0.0884		0.0884	0.0884		1,394.9724	1,394.9724	0.0267	0.0256	1,403.2620
<b>Total</b>		<b>0.1279</b>	<b>1.0927</b>	<b>0.4650</b>	<b>6.9700e-003</b>		<b>0.0884</b>	<b>0.0884</b>		<b>0.0884</b>	<b>0.0884</b>		<b>1,394.9724</b>	<b>1,394.9724</b>	<b>0.0267</b>	<b>0.0256</b>	<b>1,403.2620</b>

**6.0 Area Detail**



Lyon 153 - Riverside-South Coast County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**6.1 Mitigation Measures Area**

Use only Natural Gas Hearths

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	6.6984	2.4297	13.6122	0.0153		0.2548	0.2548		0.2548	0.2548	0.0000	2,938.7919	2,938.7919	0.0778	0.0535	2,956.6685
Unmitigated	46.5226	3.3200	90.4487	0.1992		11.7575	11.7575		11.7575	11.7575	1,433.1385	2,776.7919	4,209.9304	4.2958	0.0973	4,346.3129

Lyon 153 - Riverside-South Coast County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**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	0.4942					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	5.5555					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	40.0915	3.1745	77.8084	0.1985		11.6874	11.6874		11.6874	11.6874	1,433.1385	2,754.0000	4,187.1385	4.2739	0.0973	4,322.9728
Landscaping	0.3814	0.1455	12.6402	6.7000e-004		0.0701	0.0701		0.0701	0.0701		22.7919	22.7919	0.0219		23.3402
<b>Total</b>	<b>46.5226</b>	<b>3.3200</b>	<b>90.4487</b>	<b>0.1992</b>		<b>11.7575</b>	<b>11.7575</b>		<b>11.7575</b>	<b>11.7575</b>	<b>1,433.1385</b>	<b>2,776.7919</b>	<b>4,209.9304</b>	<b>4.2958</b>	<b>0.0973</b>	<b>4,346.3129</b>

Lyon 153 - Riverside-South Coast County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	0.4942					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	5.5555					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.2673	2.2842	0.9720	0.0146		0.1847	0.1847		0.1847	0.1847	0.0000	2,916.0000	2,916.0000	0.0559	0.0535	2,933.3283
Landscaping	0.3814	0.1455	12.6402	6.7000e-004		0.0701	0.0701		0.0701	0.0701		22.7919	22.7919	0.0219		23.3402
<b>Total</b>	<b>6.6984</b>	<b>2.4297</b>	<b>13.6122</b>	<b>0.0153</b>		<b>0.2548</b>	<b>0.2548</b>		<b>0.2548</b>	<b>0.2548</b>	<b>0.0000</b>	<b>2,938.7919</b>	<b>2,938.7919</b>	<b>0.0778</b>	<b>0.0535</b>	<b>2,956.6685</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

Lyon 153 - Riverside-South Coast County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**Lyon 153**

**Riverside-South Coast County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	153.00	Dwelling Unit	22.70	275,400.00	438
Other Asphalt Surfaces	289.70	1000sqft	6.65	289,700.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.4	<b>Precipitation Freq (Days)</b>	28
<b>Climate Zone</b>	10			<b>Operational Year</b>	2026
<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 - actual site acreage

Construction Phase -

Vehicle Trips - 9.43 trip gen rate per traffic analysis

Construction Off-road Equipment Mitigation -

Area Mitigation -

Table Name	Column Name	Default Value	New Value
tblLandUse	LotAcreage	49.68	22.70
tblVehicleTrips	ST_TR	9.54	9.43
tblVehicleTrips	SU_TR	8.55	9.43

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

tblVehicleTrips	WD_TR	9.44	9.43
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**2.0 Emissions Summary**

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
2024	0.2763	2.3405	2.7385	6.3800e-003	0.4048	0.0963	0.5012	0.1355	0.0899	0.2253	0.0000	568.8434	568.8434	0.1021	0.0158	576.0963
2025	0.2527	1.9556	2.8402	6.9000e-003	0.3066	0.0723	0.3790	0.0826	0.0680	0.1507	0.0000	619.1907	619.1907	0.0766	0.0245	628.3976
2026	0.9482	0.2987	0.4915	9.7000e-004	0.0296	0.0130	0.0426	7.9400e-003	0.0121	0.0200	0.0000	85.9341	85.9341	0.0167	1.7100e-003	86.8603
<b>Maximum</b>	<b>0.9482</b>	<b>2.3405</b>	<b>2.8402</b>	<b>6.9000e-003</b>	<b>0.4048</b>	<b>0.0963</b>	<b>0.5012</b>	<b>0.1355</b>	<b>0.0899</b>	<b>0.2253</b>	<b>0.0000</b>	<b>619.1907</b>	<b>619.1907</b>	<b>0.1021</b>	<b>0.0245</b>	<b>628.3976</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					
2024	0.2763	2.3405	2.7385	6.3800e-003	0.2785	0.0963	0.3749	0.0853	0.0899	0.1752	0.0000	568.8430	568.8430	0.1021	0.0158	576.0959
2025	0.2527	1.9556	2.8402	6.9000e-003	0.3066	0.0723	0.3790	0.0826	0.0680	0.1507	0.0000	619.1903	619.1903	0.0766	0.0245	628.3973
2026	0.9482	0.2987	0.4915	9.7000e-004	0.0296	0.0130	0.0426	7.9400e-003	0.0121	0.0200	0.0000	85.9340	85.9340	0.0167	1.7100e-003	86.8602
<b>Maximum</b>	<b>0.9482</b>	<b>2.3405</b>	<b>2.8402</b>	<b>6.9000e-003</b>	<b>0.3066</b>	<b>0.0963</b>	<b>0.3790</b>	<b>0.0853</b>	<b>0.0899</b>	<b>0.1752</b>	<b>0.0000</b>	<b>619.1903</b>	<b>619.1903</b>	<b>0.1021</b>	<b>0.0245</b>	<b>628.3973</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	17.05	0.00	13.69	22.19	0.00	12.66	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-8-2024	4-7-2024	0.6247	0.6247
2	4-8-2024	7-7-2024	0.8385	0.8385
3	7-8-2024	10-7-2024	0.5928	0.5928
4	10-8-2024	1-7-2025	0.5929	0.5929
5	1-8-2025	4-7-2025	0.5450	0.5450
6	4-8-2025	7-7-2025	0.5480	0.5480
7	7-8-2025	10-7-2025	0.5543	0.5543
8	10-8-2025	1-7-2026	0.5571	0.5571
9	1-8-2026	4-7-2026	0.7459	0.7459
10	4-8-2026	7-7-2026	0.4544	0.4544
		Highest	0.8385	0.8385



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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	tons/yr										MT/yr					
Area	1.6529	0.0579	2.5526	2.5600e-003		0.1549	0.1549		0.1549	0.1549	16.2515	33.8144	50.0659	0.0510	1.1000e-003	51.6684
Energy	0.0233	0.1994	0.0849	1.2700e-003		0.0161	0.0161		0.0161	0.0161	0.0000	447.0654	447.0654	0.0227	6.4500e-003	449.5527
Mobile	0.6745	1.0702	6.9873	0.0170	1.8644	0.0136	1.8780	0.4980	0.0128	0.5108	0.0000	1,568.4916	1,568.4916	0.0800	0.0775	1,593.5855
Waste						0.0000	0.0000		0.0000	0.0000	36.4531	0.0000	36.4531	2.1543	0.0000	90.3111
Water						0.0000	0.0000		0.0000	0.0000	3.1626	35.4020	38.5646	0.3278	8.0300e-003	49.1535
<b>Total</b>	<b>2.3507</b>	<b>1.3275</b>	<b>9.6248</b>	<b>0.0208</b>	<b>1.8644</b>	<b>0.1846</b>	<b>2.0489</b>	<b>0.4980</b>	<b>0.1837</b>	<b>0.6817</b>	<b>55.8672</b>	<b>2,084.7734</b>	<b>2,140.6406</b>	<b>2.6358</b>	<b>0.0931</b>	<b>2,234.2712</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	1.1551	0.0467	1.5922	2.7000e-004		0.0111	0.0111		0.0111	0.0111	0.0000	35.6514	35.6514	3.1200e-003	6.1000e-004	35.9101
Energy	0.0233	0.1994	0.0849	1.2700e-003		0.0161	0.0161		0.0161	0.0161	0.0000	447.0654	447.0654	0.0227	6.4500e-003	449.5527
Mobile	0.6745	1.0702	6.9873	0.0170	1.8644	0.0136	1.8780	0.4980	0.0128	0.5108	0.0000	1,568.4916	1,568.4916	0.0800	0.0775	1,593.5855
Waste						0.0000	0.0000		0.0000	0.0000	36.4531	0.0000	36.4531	2.1543	0.0000	90.3111
Water						0.0000	0.0000		0.0000	0.0000	3.1626	35.4020	38.5646	0.3278	8.0300e-003	49.1535
<b>Total</b>	<b>1.8529</b>	<b>1.3164</b>	<b>8.6643</b>	<b>0.0185</b>	<b>1.8644</b>	<b>0.0408</b>	<b>1.9052</b>	<b>0.4980</b>	<b>0.0400</b>	<b>0.5380</b>	<b>39.6157</b>	<b>2,086.6105</b>	<b>2,126.2261</b>	<b>2.5879</b>	<b>0.0926</b>	<b>2,218.5129</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>21.18</b>	<b>0.84</b>	<b>9.98</b>	<b>11.01</b>	<b>0.00</b>	<b>77.89</b>	<b>7.02</b>	<b>0.00</b>	<b>78.26</b>	<b>21.09</b>	<b>29.09</b>	<b>-0.09</b>	<b>0.67</b>	<b>1.81</b>	<b>0.53</b>	<b>0.71</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	Demolition	Demolition	1/8/2024	2/16/2024	5	30	
2	Grading	Grading	3/16/2024	5/17/2024	5	45	
3	Building Construction	Building Construction	5/18/2024	1/23/2026	5	440	

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

4	Paving	Paving	1/24/2026	3/13/2026	5	35
5	Architectural Coating	Architectural Coating	3/14/2026	5/1/2026	5	35

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

**Acres of Grading (Grading Phase): 135**

**Acres of Paving: 6.65**

**Residential Indoor: 557,685; Residential Outdoor: 185,895; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 17,382 (Architectural Coating – sqft)**

**OffRoad Equipment**

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

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**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
Architectural Coating	1	35.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	177.00	64.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Demolition	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Water Exposed Area

**3.2 Demolition - 2024**

**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	0.0337	0.3132	0.2956	5.8000e-004		0.0144	0.0144		0.0134	0.0134	0.0000	50.9941	50.9941	0.0143	0.0000	51.3508
<b>Total</b>	<b>0.0337</b>	<b>0.3132</b>	<b>0.2956</b>	<b>5.8000e-004</b>		<b>0.0144</b>	<b>0.0144</b>		<b>0.0134</b>	<b>0.0134</b>	<b>0.0000</b>	<b>50.9941</b>	<b>50.9941</b>	<b>0.0143</b>	<b>0.0000</b>	<b>51.3508</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.2 Demolition - 2024**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.8000e-004	4.8000e-004	6.5900e-003	2.0000e-005	2.4700e-003	1.0000e-005	2.4800e-003	6.6000e-004	1.0000e-005	6.7000e-004	0.0000	1.8211	1.8211	4.0000e-005	5.0000e-005	1.8360
<b>Total</b>	<b>6.8000e-004</b>	<b>4.8000e-004</b>	<b>6.5900e-003</b>	<b>2.0000e-005</b>	<b>2.4700e-003</b>	<b>1.0000e-005</b>	<b>2.4800e-003</b>	<b>6.6000e-004</b>	<b>1.0000e-005</b>	<b>6.7000e-004</b>	<b>0.0000</b>	<b>1.8211</b>	<b>1.8211</b>	<b>4.0000e-005</b>	<b>5.0000e-005</b>	<b>1.8360</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	0.0337	0.3132	0.2956	5.8000e-004		0.0144	0.0144		0.0134	0.0134	0.0000	50.9940	50.9940	0.0143	0.0000	51.3507
<b>Total</b>	<b>0.0337</b>	<b>0.3132</b>	<b>0.2956</b>	<b>5.8000e-004</b>		<b>0.0144</b>	<b>0.0144</b>		<b>0.0134</b>	<b>0.0134</b>	<b>0.0000</b>	<b>50.9940</b>	<b>50.9940</b>	<b>0.0143</b>	<b>0.0000</b>	<b>51.3507</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.2 Demolition - 2024**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.8000e-004	4.8000e-004	6.5900e-003	2.0000e-005	2.4700e-003	1.0000e-005	2.4800e-003	6.6000e-004	1.0000e-005	6.7000e-004	0.0000	1.8211	1.8211	4.0000e-005	5.0000e-005	1.8360
<b>Total</b>	<b>6.8000e-004</b>	<b>4.8000e-004</b>	<b>6.5900e-003</b>	<b>2.0000e-005</b>	<b>2.4700e-003</b>	<b>1.0000e-005</b>	<b>2.4800e-003</b>	<b>6.6000e-004</b>	<b>1.0000e-005</b>	<b>6.7000e-004</b>	<b>0.0000</b>	<b>1.8211</b>	<b>1.8211</b>	<b>4.0000e-005</b>	<b>5.0000e-005</b>	<b>1.8360</b>

**3.3 Grading - 2024**

**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					0.2071	0.0000	0.2071	0.0822	0.0000	0.0822	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0724	0.7285	0.6238	1.4000e-003		0.0301	0.0301		0.0276	0.0276	0.0000	122.6689	122.6689	0.0397	0.0000	123.6608
<b>Total</b>	<b>0.0724</b>	<b>0.7285</b>	<b>0.6238</b>	<b>1.4000e-003</b>	<b>0.2071</b>	<b>0.0301</b>	<b>0.2371</b>	<b>0.0822</b>	<b>0.0276</b>	<b>0.1099</b>	<b>0.0000</b>	<b>122.6689</b>	<b>122.6689</b>	<b>0.0397</b>	<b>0.0000</b>	<b>123.6608</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.3 Grading - 2024**

**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	1.3600e-003	9.6000e-004	0.0132	4.0000e-005	4.9500e-003	2.0000e-005	4.9700e-003	1.3100e-003	2.0000e-005	1.3300e-003	0.0000	3.6422	3.6422	9.0000e-005	9.0000e-005	3.6720
<b>Total</b>	<b>1.3600e-003</b>	<b>9.6000e-004</b>	<b>0.0132</b>	<b>4.0000e-005</b>	<b>4.9500e-003</b>	<b>2.0000e-005</b>	<b>4.9700e-003</b>	<b>1.3100e-003</b>	<b>2.0000e-005</b>	<b>1.3300e-003</b>	<b>0.0000</b>	<b>3.6422</b>	<b>3.6422</b>	<b>9.0000e-005</b>	<b>9.0000e-005</b>	<b>3.6720</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					0.0808	0.0000	0.0808	0.0321	0.0000	0.0321	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0724	0.7285	0.6238	1.4000e-003		0.0301	0.0301		0.0276	0.0276	0.0000	122.6688	122.6688	0.0397	0.0000	123.6606
<b>Total</b>	<b>0.0724</b>	<b>0.7285</b>	<b>0.6238</b>	<b>1.4000e-003</b>	<b>0.0808</b>	<b>0.0301</b>	<b>0.1108</b>	<b>0.0321</b>	<b>0.0276</b>	<b>0.0597</b>	<b>0.0000</b>	<b>122.6688</b>	<b>122.6688</b>	<b>0.0397</b>	<b>0.0000</b>	<b>123.6606</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.3 Grading - 2024**

**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	1.3600e-003	9.6000e-004	0.0132	4.0000e-005	4.9500e-003	2.0000e-005	4.9700e-003	1.3100e-003	2.0000e-005	1.3300e-003	0.0000	3.6422	3.6422	9.0000e-005	9.0000e-005	3.6720
<b>Total</b>	<b>1.3600e-003</b>	<b>9.6000e-004</b>	<b>0.0132</b>	<b>4.0000e-005</b>	<b>4.9500e-003</b>	<b>2.0000e-005</b>	<b>4.9700e-003</b>	<b>1.3100e-003</b>	<b>2.0000e-005</b>	<b>1.3300e-003</b>	<b>0.0000</b>	<b>3.6422</b>	<b>3.6422</b>	<b>9.0000e-005</b>	<b>9.0000e-005</b>	<b>3.6720</b>

**3.4 Building Construction - 2024**

**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	0.1192	1.0890	1.3095	2.1800e-003		0.0497	0.0497		0.0467	0.0467	0.0000	187.7978	187.7978	0.0444	0.0000	188.9080
<b>Total</b>	<b>0.1192</b>	<b>1.0890</b>	<b>1.3095</b>	<b>2.1800e-003</b>		<b>0.0497</b>	<b>0.0497</b>		<b>0.0467</b>	<b>0.0467</b>	<b>0.0000</b>	<b>187.7978</b>	<b>187.7978</b>	<b>0.0444</b>	<b>0.0000</b>	<b>188.9080</b>



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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.4 Building Construction - 2024**

**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	5.5300e-003	0.1778	0.0700	8.9000e-004	0.0328	1.4700e-003	0.0342	9.4500e-003	1.4000e-003	0.0109	0.0000	85.8774	85.8774	9.1000e-004	0.0127	89.6785
Worker	0.0434	0.0307	0.4198	1.2700e-003	0.1576	7.1000e-004	0.1583	0.0418	6.6000e-004	0.0425	0.0000	116.0419	116.0419	2.7100e-003	2.9600e-003	116.9903
<b>Total</b>	<b>0.0489</b>	<b>0.2084</b>	<b>0.4898</b>	<b>2.1600e-003</b>	<b>0.1903</b>	<b>2.1800e-003</b>	<b>0.1925</b>	<b>0.0513</b>	<b>2.0600e-003</b>	<b>0.0534</b>	<b>0.0000</b>	<b>201.9193</b>	<b>201.9193</b>	<b>3.6200e-003</b>	<b>0.0156</b>	<b>206.6688</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	0.1192	1.0889	1.3095	2.1800e-003		0.0497	0.0497		0.0467	0.0467	0.0000	187.7976	187.7976	0.0444	0.0000	188.9078
<b>Total</b>	<b>0.1192</b>	<b>1.0889</b>	<b>1.3095</b>	<b>2.1800e-003</b>		<b>0.0497</b>	<b>0.0497</b>		<b>0.0467</b>	<b>0.0467</b>	<b>0.0000</b>	<b>187.7976</b>	<b>187.7976</b>	<b>0.0444</b>	<b>0.0000</b>	<b>188.9078</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.4 Building Construction - 2024**

**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	5.5300e-003	0.1778	0.0700	8.9000e-004	0.0328	1.4700e-003	0.0342	9.4500e-003	1.4000e-003	0.0109	0.0000	85.8774	85.8774	9.1000e-004	0.0127	89.6785
Worker	0.0434	0.0307	0.4198	1.2700e-003	0.1576	7.1000e-004	0.1583	0.0418	6.6000e-004	0.0425	0.0000	116.0419	116.0419	2.7100e-003	2.9600e-003	116.9903
<b>Total</b>	<b>0.0489</b>	<b>0.2084</b>	<b>0.4898</b>	<b>2.1600e-003</b>	<b>0.1903</b>	<b>2.1800e-003</b>	<b>0.1925</b>	<b>0.0513</b>	<b>2.0600e-003</b>	<b>0.0534</b>	<b>0.0000</b>	<b>201.9193</b>	<b>201.9193</b>	<b>3.6200e-003</b>	<b>0.0156</b>	<b>206.6688</b>

**3.4 Building Construction - 2025**

**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	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6549	302.6549	0.0711	0.0000	304.4335
<b>Total</b>	<b>0.1785</b>	<b>1.6273</b>	<b>2.0991</b>	<b>3.5200e-003</b>		<b>0.0689</b>	<b>0.0689</b>		<b>0.0648</b>	<b>0.0648</b>	<b>0.0000</b>	<b>302.6549</b>	<b>302.6549</b>	<b>0.0711</b>	<b>0.0000</b>	<b>304.4335</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.4 Building Construction - 2025**

**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	8.7900e-003	0.2840	0.1115	1.4100e-003	0.0528	2.3700e-003	0.0551	0.0152	2.2600e-003	0.0175	0.0000	135.9200	135.9200	1.5300e-003	0.0200	141.9260
Worker	0.0654	0.0443	0.6296	1.9700e-003	0.2539	1.0900e-003	0.2550	0.0674	1.0100e-003	0.0684	0.0000	180.6158	180.6158	3.9500e-003	4.4400e-003	182.0381
<b>Total</b>	<b>0.0742</b>	<b>0.3283</b>	<b>0.7411</b>	<b>3.3800e-003</b>	<b>0.3066</b>	<b>3.4600e-003</b>	<b>0.3101</b>	<b>0.0826</b>	<b>3.2700e-003</b>	<b>0.0859</b>	<b>0.0000</b>	<b>316.5358</b>	<b>316.5358</b>	<b>5.4800e-003</b>	<b>0.0245</b>	<b>323.9641</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	0.1784	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6545	302.6545	0.0711	0.0000	304.4331
<b>Total</b>	<b>0.1784</b>	<b>1.6273</b>	<b>2.0991</b>	<b>3.5200e-003</b>		<b>0.0689</b>	<b>0.0689</b>		<b>0.0648</b>	<b>0.0648</b>	<b>0.0000</b>	<b>302.6545</b>	<b>302.6545</b>	<b>0.0711</b>	<b>0.0000</b>	<b>304.4331</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.4 Building Construction - 2025**

**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	8.7900e-003	0.2840	0.1115	1.4100e-003	0.0528	2.3700e-003	0.0551	0.0152	2.2600e-003	0.0175	0.0000	135.9200	135.9200	1.5300e-003	0.0200	141.9260
Worker	0.0654	0.0443	0.6296	1.9700e-003	0.2539	1.0900e-003	0.2550	0.0674	1.0100e-003	0.0684	0.0000	180.6158	180.6158	3.9500e-003	4.4400e-003	182.0381
<b>Total</b>	<b>0.0742</b>	<b>0.3283</b>	<b>0.7411</b>	<b>3.3800e-003</b>	<b>0.3066</b>	<b>3.4600e-003</b>	<b>0.3101</b>	<b>0.0826</b>	<b>3.2700e-003</b>	<b>0.0859</b>	<b>0.0000</b>	<b>316.5358</b>	<b>316.5358</b>	<b>5.4800e-003</b>	<b>0.0245</b>	<b>323.9641</b>

**3.4 Building Construction - 2026**

**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	0.0116	0.1060	0.1367	2.3000e-004		4.4800e-003	4.4800e-003		4.2200e-003	4.2200e-003	0.0000	19.7132	19.7132	4.6300e-003	0.0000	19.8290
<b>Total</b>	<b>0.0116</b>	<b>0.1060</b>	<b>0.1367</b>	<b>2.3000e-004</b>		<b>4.4800e-003</b>	<b>4.4800e-003</b>		<b>4.2200e-003</b>	<b>4.2200e-003</b>	<b>0.0000</b>	<b>19.7132</b>	<b>19.7132</b>	<b>4.6300e-003</b>	<b>0.0000</b>	<b>19.8290</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.4 Building Construction - 2026**

**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	5.7000e-004	0.0183	7.2000e-003	9.0000e-005	3.4400e-003	1.5000e-004	3.5900e-003	9.9000e-004	1.5000e-004	1.1400e-003	0.0000	8.6920	8.6920	1.0000e-004	1.2800e-003	9.0755
Worker	4.0100e-003	2.6100e-003	0.0384	1.2000e-004	0.0165	7.0000e-005	0.0166	4.3900e-003	6.0000e-005	4.4500e-003	0.0000	11.3981	11.3981	2.3000e-004	2.7000e-004	11.4850
<b>Total</b>	<b>4.5800e-003</b>	<b>0.0209</b>	<b>0.0456</b>	<b>2.1000e-004</b>	<b>0.0200</b>	<b>2.2000e-004</b>	<b>0.0202</b>	<b>5.3800e-003</b>	<b>2.1000e-004</b>	<b>5.5900e-003</b>	<b>0.0000</b>	<b>20.0901</b>	<b>20.0901</b>	<b>3.3000e-004</b>	<b>1.5500e-003</b>	<b>20.5605</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	0.0116	0.1060	0.1367	2.3000e-004		4.4800e-003	4.4800e-003		4.2200e-003	4.2200e-003	0.0000	19.7131	19.7131	4.6300e-003	0.0000	19.8290
<b>Total</b>	<b>0.0116</b>	<b>0.1060</b>	<b>0.1367</b>	<b>2.3000e-004</b>		<b>4.4800e-003</b>	<b>4.4800e-003</b>		<b>4.2200e-003</b>	<b>4.2200e-003</b>	<b>0.0000</b>	<b>19.7131</b>	<b>19.7131</b>	<b>4.6300e-003</b>	<b>0.0000</b>	<b>19.8290</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.4 Building Construction - 2026**

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	5.7000e-004	0.0183	7.2000e-003	9.0000e-005	3.4400e-003	1.5000e-004	3.5900e-003	9.9000e-004	1.5000e-004	1.1400e-003	0.0000	8.6920	8.6920	1.0000e-004	1.2800e-003	9.0755
Worker	4.0100e-003	2.6100e-003	0.0384	1.2000e-004	0.0165	7.0000e-005	0.0166	4.3900e-003	6.0000e-005	4.4500e-003	0.0000	11.3981	11.3981	2.3000e-004	2.7000e-004	11.4850
<b>Total</b>	<b>4.5800e-003</b>	<b>0.0209</b>	<b>0.0456</b>	<b>2.1000e-004</b>	<b>0.0200</b>	<b>2.2000e-004</b>	<b>0.0202</b>	<b>5.3800e-003</b>	<b>2.1000e-004</b>	<b>5.5900e-003</b>	<b>0.0000</b>	<b>20.0901</b>	<b>20.0901</b>	<b>3.3000e-004</b>	<b>1.5500e-003</b>	<b>20.5605</b>

**3.5 Paving - 2026**

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	0.0160	0.1502	0.2551	4.0000e-004		7.3200e-003	7.3200e-003		6.7400e-003	6.7400e-003	0.0000	35.0337	35.0337	0.0113	0.0000	35.3170
Paving	8.7100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0247</b>	<b>0.1502</b>	<b>0.2551</b>	<b>4.0000e-004</b>		<b>7.3200e-003</b>	<b>7.3200e-003</b>		<b>6.7400e-003</b>	<b>6.7400e-003</b>	<b>0.0000</b>	<b>35.0337</b>	<b>35.0337</b>	<b>0.0113</b>	<b>0.0000</b>	<b>35.3170</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.5 Paving - 2026**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.0000e-004	4.6000e-004	6.7100e-003	2.0000e-005	2.8900e-003	1.0000e-005	2.9000e-003	7.7000e-004	1.0000e-005	7.8000e-004	0.0000	1.9887	1.9887	4.0000e-005	5.0000e-005	2.0039
<b>Total</b>	<b>7.0000e-004</b>	<b>4.6000e-004</b>	<b>6.7100e-003</b>	<b>2.0000e-005</b>	<b>2.8900e-003</b>	<b>1.0000e-005</b>	<b>2.9000e-003</b>	<b>7.7000e-004</b>	<b>1.0000e-005</b>	<b>7.8000e-004</b>	<b>0.0000</b>	<b>1.9887</b>	<b>1.9887</b>	<b>4.0000e-005</b>	<b>5.0000e-005</b>	<b>2.0039</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	0.0160	0.1502	0.2551	4.0000e-004		7.3200e-003	7.3200e-003		6.7400e-003	6.7400e-003	0.0000	35.0337	35.0337	0.0113	0.0000	35.3169
Paving	8.7100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0247</b>	<b>0.1502</b>	<b>0.2551</b>	<b>4.0000e-004</b>		<b>7.3200e-003</b>	<b>7.3200e-003</b>		<b>6.7400e-003</b>	<b>6.7400e-003</b>	<b>0.0000</b>	<b>35.0337</b>	<b>35.0337</b>	<b>0.0113</b>	<b>0.0000</b>	<b>35.3169</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.5 Paving - 2026**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.0000e-004	4.6000e-004	6.7100e-003	2.0000e-005	2.8900e-003	1.0000e-005	2.9000e-003	7.7000e-004	1.0000e-005	7.8000e-004	0.0000	1.9887	1.9887	4.0000e-005	5.0000e-005	2.0039
<b>Total</b>	<b>7.0000e-004</b>	<b>4.6000e-004</b>	<b>6.7100e-003</b>	<b>2.0000e-005</b>	<b>2.8900e-003</b>	<b>1.0000e-005</b>	<b>2.9000e-003</b>	<b>7.7000e-004</b>	<b>1.0000e-005</b>	<b>7.8000e-004</b>	<b>0.0000</b>	<b>1.9887</b>	<b>1.9887</b>	<b>4.0000e-005</b>	<b>5.0000e-005</b>	<b>2.0039</b>

**3.6 Architectural Coating - 2026**

**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	0.9019					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.9900e-003	0.0201	0.0317	5.0000e-005		9.0000e-004	9.0000e-004		9.0000e-004	9.0000e-004	0.0000	4.4682	4.4682	2.4000e-004	0.0000	4.4743
<b>Total</b>	<b>0.9049</b>	<b>0.0201</b>	<b>0.0317</b>	<b>5.0000e-005</b>		<b>9.0000e-004</b>	<b>9.0000e-004</b>		<b>9.0000e-004</b>	<b>9.0000e-004</b>	<b>0.0000</b>	<b>4.4682</b>	<b>4.4682</b>	<b>2.4000e-004</b>	<b>0.0000</b>	<b>4.4743</b>



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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.6 Architectural Coating - 2026**

**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	1.6300e-003	1.0600e-003	0.0157	5.0000e-005	6.7300e-003	3.0000e-005	6.7600e-003	1.7900e-003	3.0000e-005	1.8100e-003	0.0000	4.6403	4.6403	1.0000e-004	1.1000e-004	4.6757
<b>Total</b>	<b>1.6300e-003</b>	<b>1.0600e-003</b>	<b>0.0157</b>	<b>5.0000e-005</b>	<b>6.7300e-003</b>	<b>3.0000e-005</b>	<b>6.7600e-003</b>	<b>1.7900e-003</b>	<b>3.0000e-005</b>	<b>1.8100e-003</b>	<b>0.0000</b>	<b>4.6403</b>	<b>4.6403</b>	<b>1.0000e-004</b>	<b>1.1000e-004</b>	<b>4.6757</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	0.9019					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.9900e-003	0.0201	0.0317	5.0000e-005		9.0000e-004	9.0000e-004		9.0000e-004	9.0000e-004	0.0000	4.4682	4.4682	2.4000e-004	0.0000	4.4743
<b>Total</b>	<b>0.9049</b>	<b>0.0201</b>	<b>0.0317</b>	<b>5.0000e-005</b>		<b>9.0000e-004</b>	<b>9.0000e-004</b>		<b>9.0000e-004</b>	<b>9.0000e-004</b>	<b>0.0000</b>	<b>4.4682</b>	<b>4.4682</b>	<b>2.4000e-004</b>	<b>0.0000</b>	<b>4.4743</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.6 Architectural Coating - 2026**

**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	1.6300e-003	1.0600e-003	0.0157	5.0000e-005	6.7300e-003	3.0000e-005	6.7600e-003	1.7900e-003	3.0000e-005	1.8100e-003	0.0000	4.6403	4.6403	1.0000e-004	1.1000e-004	4.6757
<b>Total</b>	<b>1.6300e-003</b>	<b>1.0600e-003</b>	<b>0.0157</b>	<b>5.0000e-005</b>	<b>6.7300e-003</b>	<b>3.0000e-005</b>	<b>6.7600e-003</b>	<b>1.7900e-003</b>	<b>3.0000e-005</b>	<b>1.8100e-003</b>	<b>0.0000</b>	<b>4.6403</b>	<b>4.6403</b>	<b>1.0000e-004</b>	<b>1.1000e-004</b>	<b>4.6757</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	0.6745	1.0702	6.9873	0.0170	1.8644	0.0136	1.8780	0.4980	0.0128	0.5108	0.0000	1,568.4916	1,568.4916	0.0800	0.0775	1,593.5855
Unmitigated	0.6745	1.0702	6.9873	0.0170	1.8644	0.0136	1.8780	0.4980	0.0128	0.5108	0.0000	1,568.4916	1,568.4916	0.0800	0.0775	1,593.5855

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Single Family Housing	1,442.79	1,442.79	1,442.79	4,930,233	4,930,233
<b>Total</b>	<b>1,442.79</b>	<b>1,442.79</b>	<b>1,442.79</b>	<b>4,930,233</b>	<b>4,930,233</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
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Single Family Housing	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.540541	0.056458	0.173793	0.136090	0.025268	0.007074	0.011525	0.018705	0.000610	0.000304	0.023606	0.001094	0.004932
Single Family Housing	0.540541	0.056458	0.173793	0.136090	0.025268	0.007074	0.011525	0.018705	0.000610	0.000304	0.023606	0.001094	0.004932

**5.0 Energy Detail**

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	216.1120	216.1120	0.0182	2.2100e-003	217.2269
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	216.1120	216.1120	0.0182	2.2100e-003	217.2269
NaturalGas Mitigated	0.0233	0.1994	0.0849	1.2700e-003		0.0161	0.0161		0.0161	0.0161	0.0000	230.9533	230.9533	4.4300e-003	4.2300e-003	232.3258
NaturalGas Unmitigated	0.0233	0.1994	0.0849	1.2700e-003		0.0161	0.0161		0.0161	0.0161	0.0000	230.9533	230.9533	4.4300e-003	4.2300e-003	232.3258

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	4.3279e+006	0.0233	0.1994	0.0849	1.2700e-003		0.0161	0.0161		0.0161	0.0161	0.0000	230.9533	230.9533	4.4300e-003	4.2300e-003	232.3258
<b>Total</b>		<b>0.0233</b>	<b>0.1994</b>	<b>0.0849</b>	<b>1.2700e-003</b>		<b>0.0161</b>	<b>0.0161</b>		<b>0.0161</b>	<b>0.0161</b>	<b>0.0000</b>	<b>230.9533</b>	<b>230.9533</b>	<b>4.4300e-003</b>	<b>4.2300e-003</b>	<b>232.3258</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					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	4.3279e+006	0.0233	0.1994	0.0849	1.2700e-003		0.0161	0.0161		0.0161	0.0161	0.0000	230.9533	230.9533	4.4300e-003	4.2300e-003	232.3258
<b>Total</b>		<b>0.0233</b>	<b>0.1994</b>	<b>0.0849</b>	<b>1.2700e-003</b>		<b>0.0161</b>	<b>0.0161</b>		<b>0.0161</b>	<b>0.0161</b>	<b>0.0000</b>	<b>230.9533</b>	<b>230.9533</b>	<b>4.4300e-003</b>	<b>4.2300e-003</b>	<b>232.3258</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	1.21859e+006	216.1120	0.0182	2.2100e-003	217.2269
<b>Total</b>		<b>216.1120</b>	<b>0.0182</b>	<b>2.2100e-003</b>	<b>217.2269</b>

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	1.21859e+006	216.1120	0.0182	2.2100e-003	217.2269
<b>Total</b>		<b>216.1120</b>	<b>0.0182</b>	<b>2.2100e-003</b>	<b>217.2269</b>

**6.0 Area Detail**

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**6.1 Mitigation Measures Area**

Use only Natural Gas Hearths

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1.1551	0.0467	1.5922	2.7000e-004		0.0111	0.0111		0.0111	0.0111	0.0000	35.6514	35.6514	3.1200e-003	6.1000e-004	35.9101
Unmitigated	1.6529	0.0579	2.5526	2.5600e-003		0.1549	0.1549		0.1549	0.1549	16.2515	33.8144	50.0659	0.0510	1.1000e-003	51.6684

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**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	0.0902					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.0139					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.5011	0.0397	0.9726	2.4800e-003		0.1461	0.1461		0.1461	0.1461	16.2515	31.2298	47.4814	0.0485	1.1000e-003	49.0217
Landscaping	0.0477	0.0182	1.5800	8.0000e-005		8.7600e-003	8.7600e-003		8.7600e-003	8.7600e-003	0.0000	2.5846	2.5846	2.4900e-003	0.0000	2.6467
<b>Total</b>	<b>1.6529</b>	<b>0.0579</b>	<b>2.5526</b>	<b>2.5600e-003</b>		<b>0.1549</b>	<b>0.1549</b>		<b>0.1549</b>	<b>0.1549</b>	<b>16.2515</b>	<b>33.8144</b>	<b>50.0659</b>	<b>0.0510</b>	<b>1.1000e-003</b>	<b>51.6684</b>



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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	0.0902					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.0139					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	3.3400e-003	0.0286	0.0122	1.8000e-004		2.3100e-003	2.3100e-003		2.3100e-003	2.3100e-003	0.0000	33.0669	33.0669	6.3000e-004	6.1000e-004	33.2634
Landscaping	0.0477	0.0182	1.5800	8.0000e-005		8.7600e-003	8.7600e-003		8.7600e-003	8.7600e-003	0.0000	2.5846	2.5846	2.4900e-003	0.0000	2.6467
<b>Total</b>	<b>1.1551</b>	<b>0.0467</b>	<b>1.5922</b>	<b>2.6000e-004</b>		<b>0.0111</b>	<b>0.0111</b>		<b>0.0111</b>	<b>0.0111</b>	<b>0.0000</b>	<b>35.6514</b>	<b>35.6514</b>	<b>3.1200e-003</b>	<b>6.1000e-004</b>	<b>35.9101</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	38.5646	0.3278	8.0300e-003	49.1535
Unmitigated	38.5646	0.3278	8.0300e-003	49.1535

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	9.96857 / 6.28453	38.5646	0.3278	8.0300e-003	49.1535
<b>Total</b>		<b>38.5646</b>	<b>0.3278</b>	<b>8.0300e-003</b>	<b>49.1535</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**7.2 Water by Land Use**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	9.96857 / 6.28453	38.5646	0.3278	8.0300e-003	49.1535
<b>Total</b>		<b>38.5646</b>	<b>0.3278</b>	<b>8.0300e-003</b>	<b>49.1535</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	36.4531	2.1543	0.0000	90.3111
Unmitigated	36.4531	2.1543	0.0000	90.3111

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	179.58	36.4531	2.1543	0.0000	90.3111
<b>Total</b>		<b>36.4531</b>	<b>2.1543</b>	<b>0.0000</b>	<b>90.3111</b>

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	179.58	36.4531	2.1543	0.0000	90.3111
<b>Total</b>		<b>36.4531</b>	<b>2.1543</b>	<b>0.0000</b>	<b>90.3111</b>

**9.0 Operational Offroad**

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Lyon 153 - Riverside-South Coast County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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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