

# **Air Quality and Greenhouse Gas Impact Analysis**

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**Rocklin Rezone – Parcel 3 Project**

Prepared for:  
**Rocklin Corporate Center**

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Prepared by



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## **INTRODUCTION**

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This Air Quality and Greenhouse Gas Impact Analysis identifies and analyzes the potential environmental impacts from the Rocklin Rezone – Parcel 3 Project (proposed project) related to air quality and greenhouse gas (GHG) emissions. The information and analysis in this document are organized in accordance with the checklist in Appendix G of the California Environmental Quality Act (CEQA) Guidelines. If the analysis provided in this document identifies potentially significant environmental effects of the project, mitigation measures that should be applied to the project are prescribed. All modeling results are included as an appendix to this document.

## **PROJECT SUMMARY**

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The project site is located northeast of the intersection of West Oaks Boulevard and Lonetree Boulevard in the City of Rocklin, California. The 6.74-acre site (Assessor's Parcel Number 017-284-015) is currently undeveloped (see Figure 1 and Figure 2).

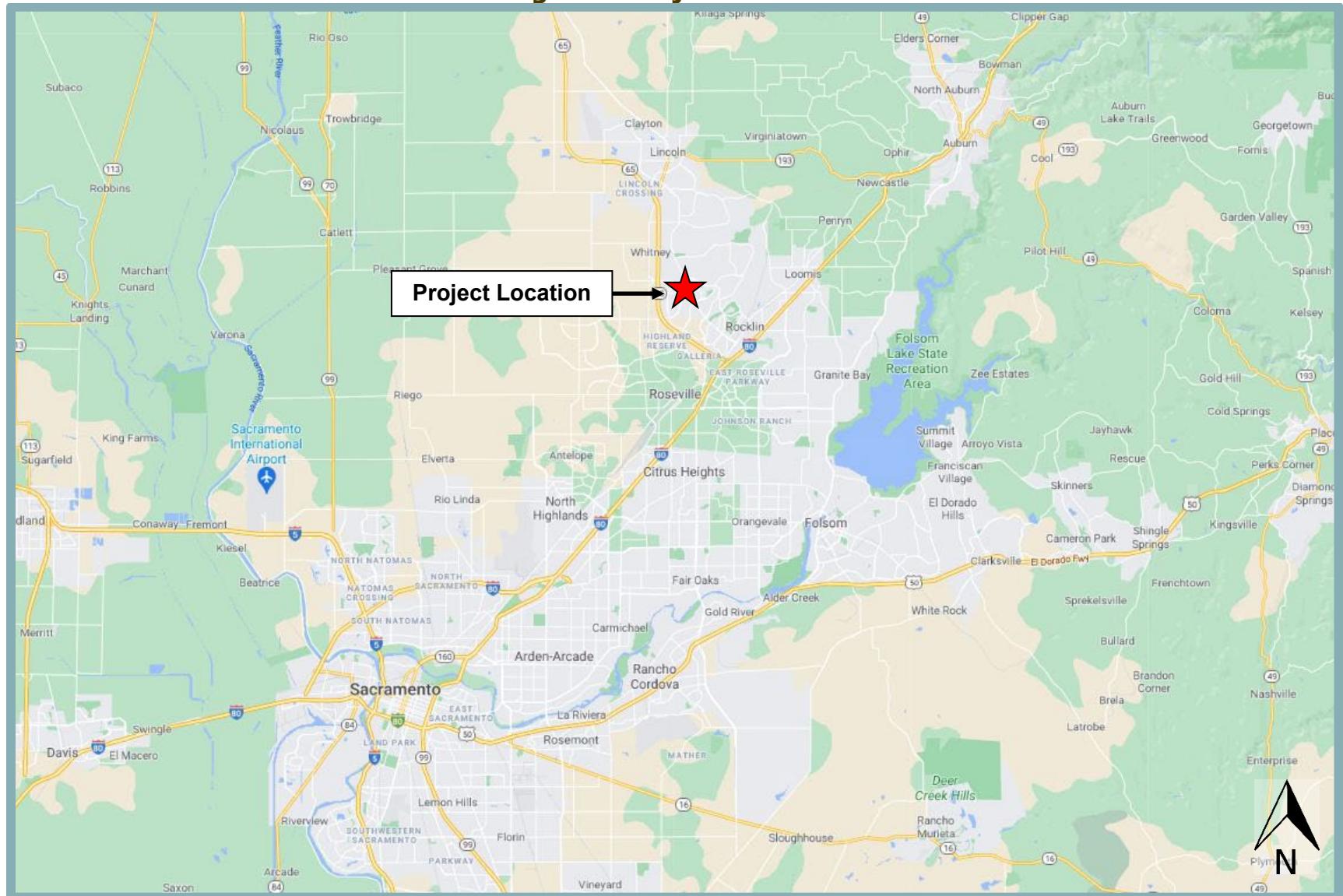
The project site is bound by Lonetree Boulevard to the west, and West Oaks Boulevard to the south. Surrounding existing land uses include light industrial and commercial uses to the north and east; a church and Kathy Lund Community Park to the south; undeveloped land to the west; and a multi-family residential development to the southwest. State Route (SR) 65 is located approximately 0.43-mile west of the project site. The City of Rocklin General Plan designates the site as Light Industrial (LI) and the site is zoned Planned Development Industrial Park (PD-IP). It is noted that the project site is located within the Stanford Ranch General Development Plan.

The proposed project would entail applying a General Plan Amendment and Rezone to the project site. The proposed General Plan Amendment would redesignate the project site from LI to Mixed Use (MU). The MU land use designation is intended to provide for land use patterns and mixed use development that integrate residential and non-residential land uses such that residents may easily walk or bicycle to shopping, services, employment, and leisure activities. The proposed Rezone would change the zoning district from PD-IP to Mixed Use-24 dwelling unit/acre (du/ac) (MU-24+). The MU-24+ zoning designation allows mixed use development on-site, including multi-family residential uses at a minimum density of 24 du/ac.

The following analysis provides a comparison of emissions associated with buildup of the project site under the approved conditions (i.e., under the existing land use and zoning designations), as compared to buildup of the project site under the proposed land use and zoning designations. Given that the General Plan Amendment and Rezone would allow for both commercial and multi-family residential development on-site, this analysis includes two development options for the proposed project: the development of the entire project site with multi-family residential uses; and the development of the project site with 50 percent multi-family residential uses and 50 percent commercial uses. A detailed description of each potential buildup option for the project site is included in the analysis below.



**Figure 1**  
**Regional Project Location**



**Figure 2**  
**Project Vicinity Map**



## SOURCES

1. California Air Resources Board. *Air Quality and Land Use Handbook: A Community Health Perspective*. April 2005.
2. Department of Conservation, California Geological Survey. *Special Report 190: Relative Likelihood for the Presence of Naturally Occurring Asbestos in Placer County, California*. 2006.
3. Office of Environmental Health Hazard Assessment. *Air Toxics Hot Spots Program Risk Assessment Guidelines, Guidance Manual for Preparation of Health Risk Assessments*. February 2015.
4. Placer County Air Pollution Control District. *CEQA Air Quality Handbook*. November 21, 2017.
5. Placer County Air Pollution Control District. *Placer County Air Pollution Control District Policy. Review of Land Use Projects Under CEQA*. October 13, 2016.
6. Placer County Community Development and Resource Agency. *Placer County Sustainability Plan: A Greenhouse Gas Emission Reduction Plan and Adaptation Strategy*. January 28, 2020.
7. U.S. Environmental Protection Agency. *Nonattainment and Unclassifiable Area Designations for the 2015 Ozone Standards*. April 30, 2018.
8. U.S. Environmental Protection Agency. *User's Guide for the AMS/EPA Regulatory Model (AERMOD)*. December 2016.



### **III. AIR QUALITY.**

*Would the project:*

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less-Than-Significant Impact	No Impact
a. Conflict with or obstruct implementation of the applicable air quality plan?	<input type="checkbox"/>	<input type="checkbox"/>	✗	<input type="checkbox"/>
b. Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard?	<input type="checkbox"/>	<input type="checkbox"/>	✗	<input type="checkbox"/>
c. Expose sensitive receptors to substantial pollutant concentrations?	<input type="checkbox"/>	<input type="checkbox"/>	✗	<input type="checkbox"/>
d. Result in other emissions (such as those leading to odors) adversely affecting a substantial number of people?	<input type="checkbox"/>	<input type="checkbox"/>	✗	<input type="checkbox"/>

### **Discussion**

- a,b. The project site is located within the Sacramento Valley Air Basin (SVAB) and is under the jurisdiction of the Placer County Air Pollution Control District (PCAPCD). The SVAB is designated nonattainment for the federal particulate matter 2.5 microns in diameter ( $PM_{2.5}$ ) and the State particulate matter 10 microns in diameter ( $PM_{10}$ ) standards, as well as for both the federal and State ozone standards. The federal Clean Air Act requires areas designated as federal nonattainment to prepare an air quality control plan referred to as the State Implementation Plan (SIP). The SIP contains the strategies and control measures for states to use to attain the federal ambient air quality standards (AAQS). The SIP is periodically modified to reflect the latest emissions inventories, planning documents, rules, and regulations of air basins as reported by the agencies with jurisdiction over them. In compliance with regulations, the PCAPCD periodically prepares and updates air quality plans that provide emission reduction strategies to achieve attainment of the federal and State AAQS, including control strategies to reduce air pollutant emissions via regulations, incentive programs, public education, and partnerships with other agencies.

The current applicable air quality plan for the project area is the *Sacramento Regional 2009 NAAQS 8-Hour Ozone Attainment and Reasonable Further Progress Plan* (Ozone Attainment Plan), updated July 24, 2017. The Ozone Attainment Plan demonstrates how existing and new control strategies would provide the necessary future emission reductions to meet the Federal Clean Air Act requirements, including the federal AAQS.

It should be noted that in addition to strengthening the 8-hour ozone federal AAQS, the U.S. Environmental Protection Agency (USEPA) also strengthened the secondary 8-hour ozone federal AAQS, making the secondary standard identical to the primary standard. The SVAB remains classified as a severe nonattainment area for ozone with an attainment deadline of 2027. On October 26, 2015, the USEPA released a final implementation rule for the revised NAAQS for ozone to address the requirements for reasonable further progress, modeling and attainment demonstrations, and reasonably available control measures (RACM) and reasonably available control technology (RACT). On April 30, 2018, the USEPA published designations for areas in attainment/unclassifiable for the 2015 ozone standards. The USEPA identified the portions of Placer County within the SVAB as nonattainment for the 2015 ozone standards.<sup>1</sup> Due to the designation of the

<sup>1</sup> U.S. Environmental Protection Agency. *Nonattainment and Unclassifiable Area Designations for the 2015 Ozone Standards*. April 30, 2018.



SVAB as nonattainment for the 2015 standards, the PCAPCD will work with other regional air districts to prepare a new ozone SIP for the revised 2015 standards.

General conformity requirements of the regional air quality plan include whether a project would cause or contribute to new violations of any AAQS, increase the frequency or severity of an existing violation of any AAQS, or delay timely attainment of any AAQS. In order to evaluate ozone and other criteria air pollutant emissions and support attainment goals for those pollutants that the area is designated nonattainment, the PCAPCD has adopted recommended thresholds of significance for emissions of PM<sub>10</sub> and the ozone precursors reactive organic gases (ROG) and oxides of nitrogen (NO<sub>x</sub>). On October 13, 2016, the PCAPCD adopted updated significance thresholds for the aforementioned pollutants.

The significance thresholds, expressed in pounds per day (lbs/day), listed in Table 1 are the PCAPCD's current thresholds of significance for use in the evaluation of air quality impacts associated with proposed development projects. Thus, if the proposed project's emissions exceed the pollutant thresholds presented in Table 1, the project could have a significant effect on air quality, the attainment of federal and State AAQS, and could conflict with or obstruct implementation of the applicable air quality plan.

<b>Table 1</b> <b>PCAPCD Thresholds of Significance (lbs/day)</b>		
<b>Pollutant</b>	<b>Construction Threshold</b>	<b>Operational Threshold</b>
ROG	82	55
NO <sub>x</sub>	82	55
PM <sub>10</sub>	82	82

*Source: Placer County Air Pollution Control District. CEQA Handbook. 2017.*

Implementation of the proposed project would generate air quality emissions in the area during both the construction and operation of the proposed project. The proposed project's construction and operational emissions were estimated using the California Emissions Estimator Model (CALEEMod) version 2020.4.0 software – a statewide model designed to provide a uniform platform for government agencies, land use planners, and environmental professionals to quantify air quality emissions, including GHG emissions, from land use projects. The model applies inherent default values for various land uses, including construction data, trip generation rates, vehicle mix, trip length, average speed, compliance with the California Building Standards Code (CBSC), etc. Where project-specific data was available, such data was input into the model (e.g., construction phases and timing, inherent site or project design features, compliance with applicable regulations, etc.).

As discussed in the Project Summary section, because the proposed project entails approval of a General Plan Amendment and Rezone for the project site, this analysis provides a comparison of emissions associated with buildup of the project site under the existing land use and zoning designations, as compared to buildup of the project site under two potential buildup options that would be allowable under the proposed land use and zoning designations. The following includes a description of each potential buildup option for the project site:



- **Approved Conditions:** The Approved Conditions scenario refers to buildout of the project site consistent with the existing land use and zoning designations. Because the existing PD-IP zoning allows for office uses, this analysis assumes office development rather than light industrial development to provide a worst-case analysis for automobile trip generation. As such, under the Approved Conditions scenario, the modeling assumes development of 102,758 square feet (sf) of commercial uses, as well as 514 commercial parking spaces, consistent with the Rocklin Municipal Code (RMC).
- **Proposed Project Option A (Multi-Family Residential):** Proposed Project Option A assumes development of 202 multi-family dwelling units on-site, as well as a 15,000-sf community clubhouse, and 435 resident parking spaces, consistent with the RMC.
- **Proposed Project Option B (Mixed Use Development):** Proposed Project Option B assumes buildout of 50 percent commercial uses and 50 percent multi-family residential uses on-site for a total of 36,699 sf of commercial uses and 101 multi-family dwelling units, as well as an 8,000-sf community clubhouse, 218 resident parking spaces, and 184 commercial parking spaces, consistent with the RMC.

Both Proposed Project Option A and Option B would be allowable under the proposed MU land use designation and MU-24+ zoning district. For all three buildout scenarios, the modeling assumed the following:

- Construction would begin in June 2022 and occur over approximately one year;
- The proposed project would be operational by 2023;
- A water conservation strategy of 20 percent outdoor water use was applied to reflect compliance with the Model Water Efficient Landscape Ordinance (MWELO); and
- Residential uses would include natural gas fireplaces only.

All CalEEMod results are included in Appendix A. The results of the emissions analysis for construction and operational emissions are discussed separately below.

## **Construction Emissions**

During construction of the project, various types of equipment and vehicles would temporarily operate on the project site. Construction-related emissions would be generated from construction equipment, vegetation clearing and earth movement activities, construction workers' commute, and construction material hauling for the entire construction period. The aforementioned activities would involve the use of diesel- and gasoline-powered equipment that would generate emissions of criteria pollutants. Project construction activities also represent sources of fugitive dust, which includes PM emissions. As construction of the proposed project would generate emissions of criteria air pollutants, including ROG, NO<sub>x</sub>, and PM<sub>10</sub>, intermittently within the site and in the vicinity of the site, until all construction has been completed, construction is a potential concern, as the proposed project is located in a nonattainment area for ozone and PM.

Table 2 presents the estimated unmitigated construction-related emissions for the proposed project under both development options.



<b>Table 2</b>			
<b>Maximum Unmitigated Construction Emissions (lbs/day)</b>			
	<b>ROG</b>	<b>NOx</b>	<b>PM<sub>10</sub></b>
Proposed Project Option A	14.67	33.12	21.42
Proposed Project Option B	10.07	33.12	21.42
<b>PCAPCD Significance Threshold</b>	<b>82.0</b>	<b>82.0</b>	<b>82.0</b>
<b>Exceeds Threshold?</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>

**Source:** CalEEMod, January 2022 (see Appendix).

As shown in Table 2, for both development options, the project's construction-related emissions would be below the applicable PCAPCD thresholds of significance for ROG, NO<sub>x</sub>, and PM<sub>10</sub>.

Additionally, the proposed project would be required to comply with all PCAPCD rules and regulations for construction, which would be noted on City-approved construction plans. The applicable rules and regulations would include, but not be limited to, the following:

- Rule 202 related to visible emissions;
- Rule 217 related to cutback and emulsified asphalt paving materials;
- Rule 218 related to architectural coatings;
- Rule 228 related to fugitive dust; and
- Rule 501 related to general permit requirements.

The proposed project's compliance with the above PCAPCD rules would minimize construction-related emissions. For example, Rule 228 includes implementation of dust control measures, such as minimizing track-out on to paved public roadways, limiting vehicle travel on unpaved surfaces to 15 miles per hour, and stabilization of storage piles and disturbed areas. A Dust Control Plan must also be submitted to the PCAPCD per Rule 228 prior to the start of earth-disturbing activities.

Given the project's compliance with all PCAPCD rules and regulations for construction, listed above, construction-related emissions of criteria pollutants would likely be lower than the levels presented within Table 2.

Because the proposed project's estimated unmitigated construction emissions would be below the applicable PCAPCD thresholds of significance, construction of the proposed project would not violate any AAQS or contribute substantially to an existing or projected air quality violation, and a less-than-significant impact would occur associated with construction.

## Operational Emissions

Operational emissions of ROG, NO<sub>x</sub>, and PM<sub>10</sub> would be generated by the proposed project from both mobile and stationary sources. Day-to-day activities, such as the future vehicle trips to and from the project site, would make up the majority of the mobile emissions. Emissions would also occur from area sources such as natural gas combustion from fireplaces, heating mechanisms, landscape maintenance equipment exhaust, and consumer products (e.g., deodorants, cleaning products, spray paint, etc.). As stated above, the proposed project would be required to comply with all applicable PCAPCD rules and regulations, including the following related to operations:



- Rule 205 related to nuisances;
- Rule 231 or Rule 247 related to commercial water heaters and boilers; and
- Rule 502 related to review of new sources of emissions.

As noted above, the project site is currently designated LI and zoned PD-IP and, thus, the City of Rocklin General Plan EIR has already evaluated development of the project site with light industrial or office uses. In order to assess whether development of the project site under the proposed land use and zoning designations would result in a significant increase in air quality emissions, all three development scenarios were modeled using CalEEMod. It should be noted that emissions produced by the Approved Conditions are currently allowed to occur on the project site. Therefore, the analysis herein considers whether the net change in emissions of the proposed development options as compared to the Approved Conditions would exceed the PCAPCD thresholds of significance. The assumptions used in the model were discussed above.

Table 3 and Table 4 present the estimated unmitigated operational emissions for the Approved Conditions compared to Proposed Project Option A and Option B, respectively.

<b>Table 3</b> <b>Maximum Unmitigated Operational Emissions (lbs/day) – Option A</b>			
	<b>ROG</b>	<b>NOx</b>	<b>PM<sub>10</sub></b>
Approved Conditions	6.56	5.48	6.10
Proposed Project Option A	11.95	11.03	8.91
<i>Net Difference</i>	+5.39	+5.55	+2.81
<b>PCAPCD Significance Threshold</b>	<b>55.0</b>	<b>55.0</b>	<b>82.0</b>
<b>Exceeds Threshold?</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>

Source: CalEEMod, January 2022 (see Appendix).

<b>Table 4</b> <b>Maximum Unmitigated Operational Emissions (lbs/day)– Option B</b>			
	<b>ROG</b>	<b>NOx</b>	<b>PM<sub>10</sub></b>
Approved Conditions	6.56	5.48	6.10
Proposed Project Option B	8.38	7.53	6.70
<i>Net Difference</i>	+1.82	+2.05	+0.60
<b>PCAPCD Significance Threshold</b>	<b>55.0</b>	<b>55.0</b>	<b>82.0</b>
<b>Exceeds Threshold?</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>

Source: CalEEMod, January 2022 (see Appendix).

As shown in the tables, both options of the proposed project would result in a net increase of unmitigated operational emissions as compared to the Approved Conditions of the project site; however, emissions would be below the PCAPCD's thresholds of significance for ROG, NO<sub>x</sub>, and PM<sub>10</sub>. In addition, the net change in emissions for both development options as compared to the Approved Conditions would be substantially below the PCAPCD thresholds of significance. Accordingly, operations of the proposed project would not violate any AAQS or contribute substantially to an existing or projected air quality violation, and a less-than-significant impact would occur associated with operations.



## Cumulative Emissions

A cumulative impact analysis considers a project over time in conjunction with other past, present, and reasonably foreseeable future projects whose impacts might compound those of the project being assessed. Due to the dispersive nature and regional sourcing of air pollutants, air pollution is already largely a cumulative impact. The nonattainment status of regional pollutants, including ozone and PM, is a result of past and present development, and, thus, cumulative impacts related to these pollutants could be considered cumulatively significant.

To improve air quality and attain the health-based standards, reductions in emissions are necessary within nonattainment areas. The project is part of a pattern of urbanization occurring in the greater Sacramento ozone nonattainment area. The growth and combined vehicle usage, and business activity within the nonattainment area from the project, in combination with other past, present, and reasonably foreseeable projects within the City of Rocklin and surrounding areas, could either delay attainment of the standards or require the adoption of additional controls on existing and future air pollution sources to offset emission increases. Thus, the project could cumulatively contribute to regional air quality health effects through emissions of criteria and mobile source air pollutants.

The PCAPCD recommends using the region's existing attainment plans as a basis for analysis of cumulative emissions. If a project would interfere with an adopted attainment plan, the project would inhibit the future attainment of AAQS, and thus result in a cumulative impact. As discussed above, the PCAPCD's recommended thresholds of significance for ozone precursors and PM<sub>10</sub> are based on attainment plans for the region. Thus, the PCAPCD concluded that if a project's ozone precursor and PM<sub>10</sub> emissions would be less than PCAPCD project-level thresholds, the project would not be expected to conflict with any relevant attainment plans, and would not result in a cumulatively considerable contribution to a significant cumulative impact. As a result, the PCACPD established operational phase cumulative-level emissions thresholds identical to the operational thresholds identified above, in Table 1.

As shown in Table 3 and Table 4, operational emissions would be below the PCAPCD's project-level thresholds, and, thus, would be below the PCAPCD's cumulative-level thresholds as well. Accordingly, impacts related to the cumulative emissions of criteria pollutants for which PCAPCD is in non-attainment would be considered less than significant.

## Conclusion

Because the proposed project would not result in construction-related or operational emissions of criteria air pollutants in excess of PCAPCD's thresholds of significance, the proposed project would not be considered to conflict with or obstruct the implementation of any applicable air quality plans. In addition, the proposed project would not result in a cumulatively considerable net increase of any criteria air pollutant for which the project region is non-attainment under an applicable ambient air quality standard. Therefore, a ***less-than-significant*** impact would result.

- c. Some land uses are considered more sensitive to air pollution than others, due to the types of population groups or activities involved. Heightened sensitivity may be caused by health problems, proximity to the emissions source, and/or duration of exposure to air pollutants. Children, pregnant women, the elderly, and those with existing health problems



are especially vulnerable to the effects of air pollution. Sensitive receptors are typically defined as facilities where sensitive receptor population groups (i.e., children, the elderly, the acutely ill, and the chronically ill) are likely to be located. Accordingly, land uses that are typically considered to be sensitive receptors include residences, schools, playgrounds, childcare centers, retirement homes, convalescent homes, hospitals, and medical clinics. The nearest existing sensitive receptors to the project site are the multi-family residences located approximately 235 feet to the southwest of the project site, across the West Oaks Boulevard/Lonetree Boulevard intersection.

The major pollutant concentrations of concern are localized carbon monoxide (CO) emissions and toxic air contaminant (TAC) emissions, as well as regional effects of emissions of criteria pollutants, which are addressed in further detail below.

### **Localized CO Emissions**

Localized concentrations of CO are related to the levels of traffic and congestion along streets and at intersections. Traffic congestion near a roadway's intersection with vehicles moving slowly or idling could result in localized CO emissions at that intersection due to a vehicle engine's inefficient combustion. High levels of localized CO concentrations are only expected where background levels are high, and traffic volumes and congestion levels are high. Accordingly, a land use project could result in impacts associated with localized CO concentrations at roadway intersections if the project generates substantial traffic.

The PCAPCD has established screening methodology for localized CO emissions, which are intended to provide a conservative indication of whether project-generated vehicle trips would result in the generation of localized CO emissions that would contribute to an exceedance of AAQS and potentially expose sensitive receptors to substantial CO concentrations. Per the PCAPCD's screening methodology, if the project would result in vehicle operations producing more than 550 lbs/day of CO emissions and if either of the following scenarios are true, the project could result in localized CO emissions that would violate CO standards:

- Degrade the peak hour LOS on one or more streets or at one or more intersections (both signalized and non-signalized) in the project vicinity from an acceptable LOS (i.e., LOS A, B, C, or D) to an unacceptable LOS (i.e., LOS E or F); or
- Substantially worsen an already existing unacceptable peak hour LOS on one or more streets or at one or more intersections in the project vicinity. "Substantially worsen" includes an increase in delay at an intersection by 10 seconds or more when project-generated traffic is included.<sup>2</sup>

However, considering that the law has changed with respect to how transportation-related impacts may be addressed under CEQA such that unacceptable LOS is no longer considered a significant impact on the environment under CEQA, this analysis relies on the 550 lbs/day of CO emissions screening criterion only.

According to the modeling performed for the proposed project, operation of land uses at the project site would result in maximum mobile source CO emissions of 33.30 lbs/day under the Approved Conditions; 64.54 lbs/day under Proposed Project Option A; and

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<sup>2</sup> Placer County Air Pollution Control District. *CEQA Air Quality Handbook* [pg. 37]. November 21, 2017.



44.53 lbs/day under Proposed Project Option B (see Appendix A). Consequently, CO emissions related to operation of the proposed project would be far below the 550 lbs/day screening threshold used by PCAPCD. Therefore, according to the PCAPCD's screening methodology for localized CO emissions, the proposed project would not be expected to generate localized CO emissions that would contribute to an exceedance of AAQS, and the proposed project would not expose sensitive receptors to substantial concentrations of localized CO.

## TAC Emissions

Another category of environmental concern is TACs. The California Air Resources Board's (CARB's) *Air Quality and Land Use Handbook: A Community Health Perspective* (Handbook) provides recommended setback distances for sensitive land uses from major sources of TACs, including, but not limited to, freeways and high traffic roads, gas stations, chrome plating operations, distribution centers, and rail yards. The CARB has identified diesel particulate matter (DPM) from diesel-fueled engines as a TAC; thus, high volume freeways, stationary diesel engines, and facilities attracting heavy and constant diesel vehicle traffic are identified as having the highest associated health risks from DPM. Health risks associated with TACs are a function of both the concentration of emissions and the duration of exposure, where the higher the concentration and/or the longer the period of time that a sensitive receptor is exposed to pollutant concentrations would correlate to a higher health risk.

The proposed project would not involve any land uses or operations that would be considered major sources of TACs, including DPM. As such, the proposed project would not generate any substantial pollutant concentrations during operations. In addition, given the project site's existing land use and zoning designations, the site is currently planned for light industrial development, which could involve known sources of TACs such as distribution centers and/or the use of heavy trucks. The proposed General Plan Amendment and Rezone would not allow for such uses, and, therefore, a lesser impact related to TAC emissions would occur to nearby sensitive receptors under the proposed project than what is currently allowed on-site.

However, short-term, construction-related activities could result in the generation of TACs, primarily DPM, from on-road haul trucks and off-road equipment exhaust emissions. Although DPM emissions from on-road haul trucks would be widely dispersed throughout the project site and surrounding vicinity as haul trucks move goods and material to and from the site, exhaust from off-road equipment would primarily occur within the project site. As noted previously, the nearest existing sensitive receptors are located approximately 235 feet southwest of the project site. Consequently, the operation of off-road equipment within the project site during project construction could result in exposure of nearby residents to DPM.

PCAPCD has established significance criteria for local community risk and hazard impacts as a result of new sources of TACs. The PCAPCD's thresholds for analyzing health risks from new sources of emissions are presented below:

- The cancer risk would be greater than 10 per million persons; or
- The hazard index would be greater than 1.



The foregoing thresholds are generally intended for use when analyzing the operation of new proposed sources of TACs. Although the proposed project would not involve the siting or operation of any permanent sources of TACs, in the absence of specific thresholds for use when analyzing health risks from short-term projects, the foregoing PCAPCD thresholds are applied to the project, for construction specifically.

To analyze potential health risks to the nearby residents and church that could result from DPM emissions from off-road equipment at the project site, total DPM emissions from project construction were estimated. DPM is considered a subset of PM<sub>2.5</sub>, thus, the CalEEMod estimated PM<sub>2.5</sub> emissions from exhaust during construction was assumed to conservatively represent all DPM emitted on-site. The CalEEMod estimated PM<sub>2.5</sub> exhaust emissions were then used to calculate the concentration of DPM at the maximally exposed sensitive receptor near the project site. Construction of both Option A and Option B of the proposed project would result in the same area of disturbance, the development of similar building square footage, and the same intensity of development. Therefore, construction of both buildout scenarios at the project site would generally be considered to result in similar construction emissions of DPM.

DPM concentrations resulting from project implementation were estimated using the American Meteorological Society/Environmental Protection Agency Regulatory Model (AERMOD). The associated cancer risk and non-cancer hazard index were calculated using the CARB's Hotspot Analysis Reporting Program Version 2 (HARP 2) Risk Assessment Standalone Tool (RAST), which calculates the cancer and non-cancer health impacts using the risk assessment guidelines of the 2015 Office of Environmental Health Hazard Assessment (OEHHA) Guidance Manual for Preparation of Health Risk Assessments.<sup>3</sup> The modeling was performed in accordance with the USEPA's User's Guide for the AERMOD<sup>4</sup> and the 2015 OEHHA Guidance Manual. The results of the dispersion modeling are included as Figure 4. As shown in the figure, the maximally-exposed receptor, represented by a white X, is located immediately south of the project site. Based on the foregoing methodology, and the methodology presented in response to questions 'a' and 'b' regarding the estimation of construction emissions, the cancer risk and non-cancer hazard indices were estimated for the maximally-exposed receptor, are presented in Table 5.

<b>Table 5</b> <b>Maximum Unmitigated Cancer Risk and Hazard Index</b> <b>Associated with Project Construction DPM</b>			
	<b>Cancer Risk (per million persons)</b>	<b>Acute Hazard Index</b>	<b>Chronic Hazard Index</b>
Proposed Project	5.52	0.00	0.01
<b>Thresholds of Significance</b>	<b>10.00</b>	<b>1.00</b>	<b>1.00</b>
<b>Exceed Thresholds?</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>

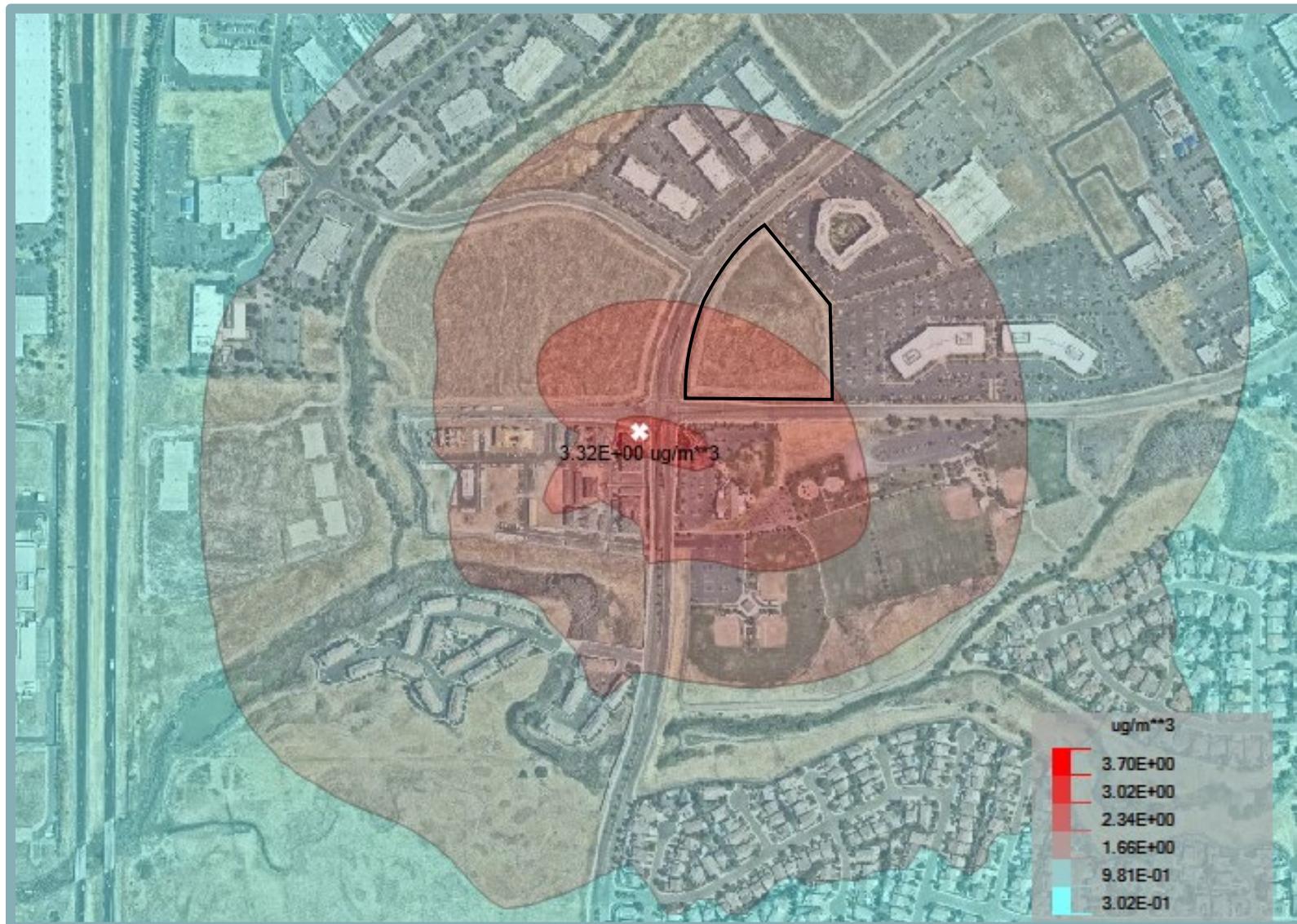
*Source: AERMOD and HARP 2 RAST, January 2022 (see Appendix B).*

<sup>3</sup> Office of Environmental Health Hazard Assessment. *Air Toxics Hot Spots Program Risk Assessment Guidelines, Guidance Manual for Preparation of Health Risk Assessments* [pg. 8-18]. February 2015.

<sup>4</sup> U.S. Environmental Protection Agency. *User's Guide for the AMS/EPA Regulatory Model (AERMOD)*. December 2016.



**Figure 4**  
**AERMOD Results**



Source: AERMOD, January 2022 (see Appendix B).

As shown in Table 5, construction of the proposed project would not result in health risks in excess of PCAPCD's standards. Thus, construction of the proposed project would not result in exposure of nearby receptors to substantial pollutant concentrations.

### Naturally Occurring Asbestos (NOA)

Asbestos is a known carcinogen and, thus, NOA is considered a TAC. According to the *Special Report 190: Relative Likelihood for the Presence of Naturally Occurring Asbestos in Placer County, California*, prepared by the Department of Conservation, the project site is located within an area categorized as least likely to contain NOA, because faults and serpentinite outcroppings are not known to be in the project area.<sup>5</sup> Consequently, NOA is not anticipated to be present on the project site.

### **Criteria Pollutants**

Exposure to criteria pollutants can result in adverse health effects. The applicable AAQS are health-based standards designed to ensure safe levels of criteria pollutants that avoid specific adverse health effects. The PCAPCD's thresholds of significance were established with consideration given to the health-based air quality standards established by the AAQS, and are designed to aid the district in implementing the applicable attainment plans to achieve attainment of the AAQS.<sup>6</sup> Thus, if a project's criteria pollutant emissions exceed the PCAPCD's mass emission thresholds of significance, a project would be considered to conflict with or obstruct implementation of the PCAPCD's air quality planning efforts, thereby delaying attainment of the AAQS. Because the AAQSs are representative of safe levels that avoid specific adverse health effects, a project's hinderance of attainment of the AAQS could be considered to contribute towards regional health effects associated with the existing nonattainment status of ozone and PM<sub>10</sub> standards.

As discussed above, the proposed project would not result in exceedance of the PCAPCD's thresholds of significance for criteria pollutant emissions (refer to Table 3 and Table 4). Consequently, implementation of the proposed project would not conflict with the PCAPCD's adopted attainment plans nor would the proposed project inhibit attainment of regional AAQS. Therefore, implementation of the proposed project would not contribute towards regional health effects associated with the existing nonattainment status of ozone and PM<sub>10</sub> standards.

### **Conclusion**

Based on the above analysis, the proposed project would not be anticipated to result in the production of substantial concentrations of localized CO, criteria pollutants, or TACs, such as DPM. In addition, the likelihood of NOA being present on the project site is low. Consequently, the proposed project would result in a **less-than-significant** impact related to the exposure of sensitive receptors to substantial pollutant concentrations.

- d. Emissions of pollutants have the potential to adversely affect sensitive receptors within the project area. Pollutants of principal concern include emissions leading to odors, emissions of dust, or emissions considered to constitute air pollutants. Air pollutants have

<sup>5</sup> Department of Conservation, California Geological Survey. *Special Report 190: Relative Likelihood for the Presence of Naturally Occurring Asbestos in Placer County, California*. 2006.

<sup>6</sup> Placer County Air Pollution Control District. *CEQA Air Quality Handbook* [pg. 20]. November 21, 2017.



been discussed in questions 'a' through 'c' above. Therefore, the following discussion focuses on emissions of odors and dust during construction and operation of the project.

## **Odors**

Odors are generally regarded as an annoyance rather than a health hazard. Due to the subjective nature of odor impacts, the number of variables that can influence the potential for an odor impact, and the variety of odor sources, determining the presence of a significant odor impact is difficult. Certain land uses such as wastewater treatment facilities, landfills, confined animal facilities, composting operations, food manufacturing plants, refineries, and chemical plants have the potential to generate considerable odors. The proposed General Plan Amendment and Rezone would not allow any such uses.

Diesel fumes from construction equipment and heavy-duty trucks could be found to be objectionable; however, operation of construction equipment would be regulated by PCAPCD rules and regulations, restricted to certain hours pursuant to the City of Rocklin Construction Noise Guidelines, and would occur intermittently throughout the course of a day. All construction equipment and operation thereof would be regulated per the statewide In-Use Off-Road Diesel Vehicle Regulation. In addition, construction is temporary and construction equipment would operate intermittently throughout the course of a day and would likely only occur over portions of the improvement area at a time. For the aforementioned reasons and due to the distance between the project site and the nearest sensitive receptors, the project would not result in any noticeable objectionable odors associated with construction.

PCAPCD Rule 205, Nuisance, addresses the exposure of "nuisance or annoyance" air contaminant discharges, including odors, and provides enforcement of odor control. Rule 205 is complaint-based, where if public complaints are sufficient to cause the odor source to be considered a public nuisance, then the PCAPCD is required to investigate the identified source, as well as determine and ensure a solution for the source of the complaint, which could include operational modifications to correct the nuisance condition. Thus, although not anticipated, if odor or air quality complaints are made upon development of the proposed project, the PCAPCD would be required (per PCAPCD Rule 205) to ensure that such complaints are addressed and mitigated, as necessary.

## **Dust**

As noted previously, construction of projects within Placer County are required to comply with all applicable PCAPCD rules and regulations. The aforementioned rules would act to reduce construction-related dust by implementing dust control measures. PCAPCD Rule 228 requires implementation of dust control measures, such as minimizing track-out on to paved public roadways, limiting vehicle travel on unpaved surfaces to 15 miles per hour, and stabilization of storage piles and disturbed areas. Following project construction, vehicles operating within the project site would be limited to paved areas of the site, which would not have the potential to create substantial dust emissions. Thus, project operations would not include sources of dust that could adversely affect a substantial number of people.

## **Conclusion**

For the aforementioned reasons, construction and operation of the proposed project would not create objectionable odors affecting a substantial number of people, and impacts would be ***less than significant***.



<b>VIII. GREENHOUSE GAS EMISSIONS.</b> <i>Would the project:</i>	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less-Than-Significant Impact	No Impact
a. Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?	<input type="checkbox"/>	<input type="checkbox"/>	✖	<input type="checkbox"/>
b. Conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gasses?	<input type="checkbox"/>	<input type="checkbox"/>	✖	<input type="checkbox"/>

## **Discussion**

- a. b. Emissions of GHGs contributing to global climate change are attributable in large part to human activities associated with the industrial/manufacturing, utility, transportation, residential, and agricultural sectors. Therefore, the cumulative global emissions of GHGs contributing to global climate change can be attributed to every nation, region, and city, and virtually every individual on Earth. An individual project's GHG emissions are at a micro-scale level relative to global emissions and effects to global climate change; however, an individual project could result in a cumulatively considerable incremental contribution to a significant cumulative macro-scale impact. As such, impacts related to emissions of GHG are inherently considered cumulative impacts.

Implementation of the proposed project would cumulatively contribute to increases of GHG emissions. Estimated GHG emissions attributable to future development would be primarily associated with increases of carbon dioxide (CO<sub>2</sub>) and, to a lesser extent, other GHG pollutants, such as methane (CH<sub>4</sub>) and nitrous oxide (N<sub>2</sub>O) associated with area sources, mobile sources or vehicles, utilities (electricity and natural gas), water usage, wastewater generation, and the generation of solid waste. The primary source of GHG emissions for the project would be mobile source emissions. The common unit of measurement for GHG is expressed in terms of annual metric tons of CO<sub>2</sub> equivalents (MTCO<sub>2</sub>e/yr).

In recognition of the global scale of climate change, California has enacted several pieces of legislations in an attempt to curb GHG emissions. Specifically, Assembly Bill (AB) 32 and, more recently, Senate Bill (SB) 32, have established statewide GHG emissions reduction targets. Accordingly, the CARB has prepared the Climate Change Scoping Plan for California (Scoping Plan), approved in 2008 and updated in 2014 and 2017, which provides the outline for actions to reduce California's GHG emissions and achieve the emissions reduction targets required by AB 32 and SB 32. In concert with statewide efforts to reduce GHG emissions, air districts, counties, and local jurisdictions throughout the State have implemented their own policies and plans to achieve emissions reductions in line with the Scoping Plan and emissions reduction targets, including AB 32 and SB 32.

Potential impacts related to GHG emissions are discussed in terms of the PCAPCD's thresholds of significance as well as the *Placer County Sustainability Plan* below.

## **PCAPCD Thresholds**

On October 13, 2016, the PCAPCD adopted GHG emissions thresholds for construction and operations in concert with the criteria pollutant threshold update. For project construction, the PCAPCD established a threshold of 10,000 MTCO<sub>2</sub>e/yr. Should construction of a proposed project emit GHG emissions in excess of 10,000 MTCO<sub>2</sub>e/yr,



the project would be considered to have a cumulatively considerable contribution to global climate change.

The PCAPCD's operational thresholds begin with a screening emission level of 1,100 MTCO<sub>2</sub>e/yr. Any project that emits less than the 1,100 MT CO<sub>2</sub>e/yr threshold is judged by the PCAPCD as having a less-than-significant impact on GHG emissions and, thus, would not conflict with any State or regional GHG emissions reduction goals. Projects that would result in emissions above the 1,100 MT CO<sub>2</sub>e/yr threshold would not necessarily result in substantial impacts, if certain efficiency thresholds are met. The efficiency thresholds, which are based on service populations and square footage, are presented in Table 6.

<b>Table 6</b> <b>PCAPCD Operational GHG Efficiency Thresholds of Significance</b>			
<b>Residential (MTCO<sub>2</sub>e/capita)</b>		<b>Non-Residential (MTCO<sub>2</sub>e/1,000 sf)</b>	
<b>Urban</b>	<b>Rural</b>	<b>Urban</b>	<b>Rural</b>
4.5	5.5	26.5	27.3

*Source: Placer County Air Pollution Control District. CEQA Handbook. 2017.*

The PCAPCD further advises that regardless of emissions efficiency, should a project result in operational emissions in excess of 10,000 MTCO<sub>2</sub>e/yr, the project would be considered to have a cumulatively considerable contribution to global climate change.

#### Construction GHG Emissions

Table 7 presents the estimated unmitigated maximum construction-related GHG emissions for the proposed project under both development options.

<b>Table 7</b> <b>Unmitigated Annual Construction GHG Emissions (MTCO<sub>2</sub>e/yr)</b>	
	<b>Maximum GHG Emissions</b>
Proposed Project Option A	342.99
Proposed Project Option B	305.91
<b>PCAPCD Significance Threshold</b>	10,000
<b>Exceeds Threshold?</b>	<b>NO</b>

*Source: CalEEMod, January 2022 (see Appendix).*

As shown in the table above, the maximum annual emissions related to implementation of the proposed project under both buildout options would be well below the PCAPCD's bright-line threshold of 10,000 MTCO<sub>2</sub>e/yr. Therefore, project construction would not be considered to result in a cumulatively considerable contribution to global climate change.

#### Operational GHG Emissions

Table 8 and Table 9 present the estimated operational GHG emissions at full buildout for the Approved Conditions compared to Option A and Option B, respectively.

As shown in the tables, both Option A and Option B of the proposed project would result in higher emissions than the operational GHG emissions expected from the Approved Conditions of the project site. As such, while buildout of the approved conditions of the project site would result in operational GHG emissions below the PCAPCD 1,100 MTCO<sub>2</sub>e/yr operational threshold of significance, both options of the proposed project would result in operational GHG emissions in excess of the operational threshold of



significance. However, the project's operational GHG emissions would be below the PCAPCD's Bright Line Threshold of 10,000 MTCO<sub>2</sub>e/yr. In addition, the net change in emissions for both development options as compared to the Approved Conditions would be substantially below the PCAPCD thresholds of significance.

<b>Table 8</b> <b>Unmitigated Operational GHG Emissions (MTCO<sub>2</sub>e/yr) – Option A</b>			
<b>Emission Source</b>	<b>Approved Conditions</b>	<b>Option A</b>	<b>Net Difference</b>
Area	0.01	146.56	+146.55
Energy	164.42	207.75	+43.33
Mobile	770.93	1,370.63	+599.70
Solid Waste	48.06	89.73	+41.67
Water	37.02	28.53	-8.49
<b>TOTAL ANNUAL GHG EMISSIONS</b>	<b>1,020.45</b>	<b>1,843.21</b>	<b>+822.76</b>
<b>PCAPCD Screening Level Threshold</b>		<b>1,100</b>	
<b>PCAPCD Bright Line Threshold</b>		<b>10,000</b>	

Note: Rounding may result in small differences in summation.

Source: CalEEMod, January 2022 (see Appendix).

<b>Table 9</b> <b>Unmitigated Operational GHG Emissions (MTCO<sub>2</sub>e/yr) – Option B</b>			
<b>Emission Source</b>	<b>Approved Conditions</b>	<b>Option B</b>	<b>Net Difference</b>
Area	0.01	73.29	+73.28
Energy	164.42	163.49	-0.93
Mobile	770.93	970.31	+199.38
Solid Waste	48.06	63.46	+15.40
Water	37.02	27.55	-9.47
<b>TOTAL ANNUAL GHG EMISSIONS</b>	<b>1,020.45</b>	<b>1,298.10</b>	<b>+277.65</b>
<b>PCAPCD Screening Level Threshold</b>		<b>1,100</b>	
<b>PCAPCD Bright Line Threshold</b>		<b>10,000</b>	

Note: Rounding may result in small differences in summation.

Source: CalEEMod, January 2022 (see Appendix).

Because both options of the proposed project would exceed the PCAPCD's screening level threshold, the project has been further evaluated in comparison with the efficiency thresholds presented in Table 6. The efficiency thresholds rely on MTCO<sub>2</sub>e emissions per year per capita to determine significance for residential projects in rural or urban settings. In general, urban projects are considered to involve shorter vehicle trips, which would inherently reduce GHG emissions from mobile sources, while rural projects are considered to involve relatively longer vehicle trips and proportionally higher GHG emissions from mobile sources. In recognition of the inherent inequality between mobile source GHG emissions from rural and urban projects, PCAPCD established higher efficiency thresholds for rural projects as compared to urban projects (see Table 6). The PCAPCD directs lead agencies to determine whether a project is considered rural or urban. The project site is located in a primarily developed area. Additionally, the urban development



threshold is a more stringent metric for comparison and, as such, the PCAPCD's urban development threshold is conservatively used for the following analysis.

The estimated emissions per capita for Option A of the proposed project are presented below in Table 10 and compared with the applicable PCAPCD efficiency threshold. It is noted that the emissions presented in Table 10 represent the total project emissions for Option A of the proposed project, not the net increase of emissions as compared to the Approved Conditions of the project site.

<b>Table 10</b> <b>Unmitigated Operational GHG Emissions – Option A</b>	
<b>Project Emissions</b>	<b>PCAPCD Efficiency Threshold for Urban Residential Projects</b>
3.19 MTCO <sub>2</sub> e/yr/capita	4.5 MTCO <sub>2</sub> e/yr/capita
Notes: The estimated population of the proposed project is 578 residents.	

As shown in the table, Option A of the proposed project would result in operational GHG emissions below the applicable PCAPCD efficiency threshold, and operations of the proposed project would not be considered to result in a cumulatively considerable contribution to global climate change.

Option B would assume buildout of 50 percent commercial uses and 50 percent multi-family residential uses on-site for a total of 36,699 sf of commercial uses and 101 multi-family dwelling units. For a mixed-use type project, the PCAPCD suggests that the lead agency decides which land use component (residential or non-residential) in its mixed-use proposal would be used to calculate the project's efficiency, either as MTCO<sub>2</sub>e per capita or per 1,000 sf, in order to meet one of GHG efficiency thresholds shown in Table 6. The lead agency has determined that the MTCO<sub>2</sub>e per capita urban residential efficiency threshold is the more appropriate approach for the proposed project. The unmitigated operational GHG emissions per capita for Option B of the proposed project are presented below in Table 11 and compared with the residential PCAPCD efficiency threshold for urban projects. Similar to Table 10, the emissions presented in Table 11 represent the total project emissions for Option B of the proposed project, not the net increase of emissions as compared to the Approved Conditions of the project site.

<b>Table 11</b> <b>Unmitigated Operational GHG Emissions – Option B</b>	
<b>Project Emissions</b>	<b>PCAPCD Efficiency Thresholds for Urban Residential Projects</b>
4.49 MTCO <sub>2</sub> e/yr/capita	4.5 MTCO <sub>2</sub> e/yr/capita
Notes: The estimated population of the proposed project is 289 residents.	

As shown in the table, Proposed Project Option B would result in operational GHG emissions below the applicable PCAPCD efficiency threshold for urban residential projects. Therefore, operations of Option B of the proposed project would not result in a cumulatively considerable contribution to global climate change.

## Conclusion

Based on the information presented above, construction and operations of the proposed project would not be considered to generate GHG emissions that would have a significant



impact on the environment and, therefore, would not conflict with any applicable plan, policy, or regulation adopted for the purpose of reducing the emissions of GHGs. Consequently, the project would not result in a cumulatively considerable incremental contribution to impacts related to GHG emissions or climate change and the project's impact would be ***less than significant***.



## **Appendix A**

### **CalEEMod Air Quality and Greenhouse Gas Modeling Results**

## Rocklin Rezone - Parcel 3 (Approved Conditions) - Placer County APCD Air District, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****Rocklin Rezone - Parcel 3 (Approved Conditions)**

Placer County APCD Air District, Annual

**1.0 Project Characteristics****1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Office Park	102.76	1000sqft	2.11	102,758.00	0
Parking Lot	514.00	Space	4.63	205,600.00	0

**1.2 Other Project Characteristics**

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	74
Climate Zone	2			Operational Year	2023
Utility Company	Pacific Gas and Electric Company				
CO2 Intensity (lb/MWhr)	203.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

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

Project Characteristics -

Land Use - Square footage and parking lot spaces based on development assumptions provided by the City. Lot acreage is representative of total lot acreage of the project site.

Construction Phase - Architectural coating adjusted to start two weeks after building construction, and last for the same duration.

Water Mitigation - Compliant with MWELO.

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	230.00
tblConstructionPhase	PhaseEndDate	7/25/2023	7/11/2023
tblConstructionPhase	PhaseEndDate	5/30/2023	6/27/2023
tblConstructionPhase	PhaseEndDate	6/27/2023	8/9/2022
tblConstructionPhase	PhaseStartDate	6/28/2023	8/24/2022

## Rocklin Rezone - Parcel 3 (Approved Conditions) - Placer County APCD Air District, Annual

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

tblConstructionPhase	PhaseStartDate	7/13/2022	8/10/2022
tblConstructionPhase	PhaseStartDate	5/31/2023	7/13/2022
tblLandUse	LotAcreage	2.36	2.11

**2.0 Emissions Summary**

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## Rocklin Rezone - Parcel 3 (Approved Conditions) - Placer County APCD Air District, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****2.1 Overall Construction****Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2022	0.3801	1.5111	1.5529	3.3200e-003	0.2462	0.0702	0.3164	0.1057	0.0658	0.1715	0.0000	295.3969	295.3969	0.0514	9.3900e-003	299.4793
2023	0.4412	1.1682	1.4123	3.1900e-003	0.0934	0.0506	0.1440	0.0254	0.0479	0.0732	0.0000	284.6321	284.6321	0.0379	0.0111	288.8814
Maximum	0.4412	1.5111	1.5529	3.3200e-003	0.2462	0.0702	0.3164	0.1057	0.0658	0.1715	0.0000	295.3969	295.3969	0.0514	0.0111	299.4793

**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					
2022	0.3801	1.5111	1.5529	3.3200e-003	0.2462	0.0702	0.3164	0.1057	0.0658	0.1715	0.0000	295.3967	295.3967	0.0514	9.3900e-003	299.4791
2023	0.4412	1.1682	1.4123	3.1900e-003	0.0934	0.0506	0.1440	0.0254	0.0479	0.0732	0.0000	284.6319	284.6319	0.0379	0.0111	288.8812
Maximum	0.4412	1.5111	1.5529	3.3200e-003	0.2462	0.0702	0.3164	0.1057	0.0658	0.1715	0.0000	295.3967	295.3967	0.0514	0.0111	299.4791

## Rocklin Rezone - Parcel 3 (Approved Conditions) - Placer County APCD Air District, Annual

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

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

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	6-1-2022	8-31-2022	0.7190	0.7190
2	9-1-2022	11-30-2022	0.8734	0.8734
3	12-1-2022	2-28-2023	0.8245	0.8245
4	3-1-2023	5-31-2023	0.8164	0.8164
5	6-1-2023	8-31-2023	0.2689	0.2689
		Highest	0.8734	0.8734

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Area	0.4656	5.0000e-005	5.6700e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0110	0.0110	3.0000e-005	0.0000	0.0117	
Energy	5.9800e-003	0.0544	0.0457	3.3000e-004		4.1300e-003	4.1300e-003		4.1300e-003	4.1300e-003	0.0000	163.0477	163.0477	0.0179	3.1200e-003	164.4263	
Mobile	0.4581	0.6666	4.1900	8.1200e-003	0.7817	7.4300e-003	0.7891	0.2094	6.9700e-003	0.2164	0.0000	757.2744	757.2744	0.0508	0.0416	770.9315	
Waste						0.0000	0.0000		0.0000	0.0000	19.3999	0.0000	19.3999	1.1465	0.0000	48.0623	
Water						0.0000	0.0000		0.0000	0.0000	5.7943	12.7688	18.5631	0.5972	0.0143	37.7552	
<b>Total</b>	<b>0.9297</b>	<b>0.7211</b>	<b>4.2414</b>	<b>8.4500e-003</b>	<b>0.7817</b>	<b>0.0116</b>	<b>0.7933</b>	<b>0.2094</b>	<b>0.0111</b>	<b>0.2206</b>	<b>25.1942</b>	<b>933.1019</b>	<b>958.2960</b>	<b>1.8125</b>	<b>0.0590</b>	<b>1,021.1870</b>	

## Rocklin Rezone - Parcel 3 (Approved Conditions) - Placer County APCD Air District, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****2.2 Overall Operational****Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Area	0.4656	5.0000e-005	5.6700e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0110	0.0110	3.0000e-005	0.0000	0.0117	
Energy	5.9800e-003	0.0544	0.0457	3.3000e-004		4.1300e-003	4.1300e-003		4.1300e-003	4.1300e-003	0.0000	163.0477	163.0477	0.0179	3.1200e-003	164.4263	
Mobile	0.4581	0.6666	4.1900	8.1200e-003	0.7817	7.4300e-003	0.7891	0.2094	6.9700e-003	0.2164	0.0000	757.2744	757.2744	0.0508	0.0416	770.9315	
Waste						0.0000	0.0000		0.0000	0.0000	19.3999	0.0000	19.3999	1.1465	0.0000	48.0623	
Water						0.0000	0.0000		0.0000	0.0000	5.7943	12.0438	17.8381	0.5971	0.0143	37.0230	
<b>Total</b>	<b>0.9297</b>	<b>0.7211</b>	<b>4.2414</b>	<b>8.4500e-003</b>	<b>0.7817</b>	<b>0.0116</b>	<b>0.7933</b>	<b>0.2094</b>	<b>0.0111</b>	<b>0.2206</b>	<b>25.1942</b>	<b>932.3769</b>	<b>957.5711</b>	<b>1.8123</b>	<b>0.0590</b>	<b>1,020.4548</b>	

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.08	0.01	0.02	0.07

**3.0 Construction Detail****Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	6/1/2022	6/14/2022	5	10	
2	Grading	Grading	6/15/2022	7/12/2022	5	20	
3	Building Construction	Building Construction	8/10/2022	6/27/2023	5	230	

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

4	Paving	Paving	7/13/2022	8/9/2022	5	20
5	Architectural Coating	Architectural Coating	8/24/2022	7/11/2023	5	230

**Acres of Grading (Site Preparation Phase): 15****Acres of Grading (Grading Phase): 20****Acres of Paving: 4.63****Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 154,137; Non-Residential Outdoor: 51,379; Striped Parking Area: 12,336 (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
Building Construction	Cranes	1	7.00	231	0.29
Grading	Excavators	1	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
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45

**Trips and VMT**

## Rocklin Rezone - Parcel 3 (Approved Conditions) - Placer County APCD Air District, Annual

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

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	119.00	51.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	24.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction****3.2 Site Preparation - 2022****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Fugitive Dust					0.0983	0.0000	0.0983	0.0505	0.0000	0.0505	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Off-Road	0.0159	0.1654	0.0985	1.9000e-004		8.0600e-003	8.0600e-003		7.4200e-003	7.4200e-003	0.0000	16.7197	16.7197	5.4100e-003	0.0000	16.8549	
Total	0.0159	0.1654	0.0985	1.9000e-004	0.0983	8.0600e-003	0.1064	0.0505	7.4200e-003	0.0579	0.0000	16.7197	16.7197	5.4100e-003	0.0000	16.8549	

## Rocklin Rezone - Parcel 3 (Approved Conditions) - Placer County APCD Air District, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****3.2 Site Preparation - 2022****Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Worker	2.5000e-004	1.8000e-004	2.2000e-003	1.0000e-005	7.1000e-004	0.0000	7.1000e-004	1.9000e-004	0.0000	1.9000e-004	0.0000	0.5730	0.5730	2.0000e-005	2.0000e-005	0.5783	
<b>Total</b>	<b>2.5000e-004</b>	<b>1.8000e-004</b>	<b>2.2000e-003</b>	<b>1.0000e-005</b>	<b>7.1000e-004</b>	<b>0.0000</b>	<b>7.1000e-004</b>	<b>1.9000e-004</b>	<b>0.0000</b>	<b>1.9000e-004</b>	<b>0.0000</b>	<b>0.5730</b>	<b>0.5730</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.5783</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					0.0983	0.0000	0.0983	0.0505	0.0000	0.0505	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0159	0.1654	0.0985	1.9000e-004		8.0600e-003	8.0600e-003		7.4200e-003	7.4200e-003	0.0000	16.7197	16.7197	5.4100e-003	0.0000	16.8549
<b>Total</b>	<b>0.0159</b>	<b>0.1654</b>	<b>0.0985</b>	<b>1.9000e-004</b>	<b>0.0983</b>	<b>8.0600e-003</b>	<b>0.1064</b>	<b>0.0505</b>	<b>7.4200e-003</b>	<b>0.0579</b>	<b>0.0000</b>	<b>16.7197</b>	<b>16.7197</b>	<b>5.4100e-003</b>	<b>0.0000</b>	<b>16.8549</b>

## Rocklin Rezone - Parcel 3 (Approved Conditions) - Placer County APCD Air District, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****3.2 Site Preparation - 2022****Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Worker	2.5000e-004	1.8000e-004	2.2000e-003	1.0000e-005	7.1000e-004	0.0000	7.1000e-004	1.9000e-004	0.0000	1.9000e-004	0.0000	0.5730	0.5730	2.0000e-005	2.0000e-005	0.5783	
<b>Total</b>	<b>2.5000e-004</b>	<b>1.8000e-004</b>	<b>2.2000e-003</b>	<b>1.0000e-005</b>	<b>7.1000e-004</b>	<b>0.0000</b>	<b>7.1000e-004</b>	<b>1.9000e-004</b>	<b>0.0000</b>	<b>1.9000e-004</b>	<b>0.0000</b>	<b>0.5730</b>	<b>0.5730</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.5783</b>	

**3.3 Grading - 2022****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0708	0.0000	0.0708	0.0343	0.0000	0.0343	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0195	0.2086	0.1527	3.0000e-004		9.4100e-003	9.4100e-003		8.6600e-003	8.6600e-003	0.0000	26.0548	26.0548	8.4300e-003	0.0000	26.2654
<b>Total</b>	<b>0.0195</b>	<b>0.2086</b>	<b>0.1527</b>	<b>3.0000e-004</b>	<b>0.0708</b>	<b>9.4100e-003</b>	<b>0.0802</b>	<b>0.0343</b>	<b>8.6600e-003</b>	<b>0.0429</b>	<b>0.0000</b>	<b>26.0548</b>	<b>26.0548</b>	<b>8.4300e-003</b>	<b>0.0000</b>	<b>26.2654</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****3.3 Grading - 2022****Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Worker	4.2000e-004	2.9000e-004	3.6700e-003	1.0000e-005	1.1800e-003	1.0000e-005	1.1800e-003	3.1000e-004	1.0000e-005	3.2000e-004	0.0000	0.9549	0.9549	3.0000e-005	3.0000e-005	0.9639	
<b>Total</b>	<b>4.2000e-004</b>	<b>2.9000e-004</b>	<b>3.6700e-003</b>	<b>1.0000e-005</b>	<b>1.1800e-003</b>	<b>1.0000e-005</b>	<b>1.1800e-003</b>	<b>3.1000e-004</b>	<b>1.0000e-005</b>	<b>3.2000e-004</b>	<b>0.0000</b>	<b>0.9549</b>	<b>0.9549</b>	<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>0.9639</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					0.0708	0.0000	0.0708	0.0343	0.0000	0.0343	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0195	0.2086	0.1527	3.0000e-004		9.4100e-003	9.4100e-003		8.6600e-003	8.6600e-003	0.0000	26.0547	26.0547	8.4300e-003	0.0000	26.2654
<b>Total</b>	<b>0.0195</b>	<b>0.2086</b>	<b>0.1527</b>	<b>3.0000e-004</b>	<b>0.0708</b>	<b>9.4100e-003</b>	<b>0.0802</b>	<b>0.0343</b>	<b>8.6600e-003</b>	<b>0.0429</b>	<b>0.0000</b>	<b>26.0547</b>	<b>26.0547</b>	<b>8.4300e-003</b>	<b>0.0000</b>	<b>26.2654</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****3.3 Grading - 2022****Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Worker	4.2000e-004	2.9000e-004	3.6700e-003	1.0000e-005	1.1800e-003	1.0000e-005	1.1800e-003	3.1000e-004	1.0000e-005	3.2000e-004	0.0000	0.9549	0.9549	3.0000e-005	3.0000e-005	0.9639	
<b>Total</b>	<b>4.2000e-004</b>	<b>2.9000e-004</b>	<b>3.6700e-003</b>	<b>1.0000e-005</b>	<b>1.1800e-003</b>	<b>1.0000e-005</b>	<b>1.1800e-003</b>	<b>3.1000e-004</b>	<b>1.0000e-005</b>	<b>3.2000e-004</b>	<b>0.0000</b>	<b>0.9549</b>	<b>0.9549</b>	<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>0.9639</b>	

**3.4 Building Construction - 2022****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0879	0.8042	0.8427	1.3900e-003		0.0417	0.0417		0.0392	0.0392	0.0000	119.3385	119.3385	0.0286	0.0000	120.0533
<b>Total</b>	<b>0.0879</b>	<b>0.8042</b>	<b>0.8427</b>	<b>1.3900e-003</b>		<b>0.0417</b>	<b>0.0417</b>		<b>0.0392</b>	<b>0.0392</b>	<b>0.0000</b>	<b>119.3385</b>	<b>119.3385</b>	<b>0.0286</b>	<b>0.0000</b>	<b>120.0533</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****3.4 Building Construction - 2022****Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Vendor	4.9000e-003	0.1413	0.0421	5.5000e-004	0.0172	1.2900e-003	0.0185	4.9700e-003	1.2400e-003	6.2000e-003	0.0000	52.7812	52.7812	2.3000e-004	7.9800e-003	55.1664	
Worker	0.0170	0.0120	0.1499	4.2000e-004	0.0481	2.5000e-004	0.0484	0.0128	2.3000e-004	0.0130	0.0000	39.0151	39.0151	1.2200e-003	1.1200e-003	39.3807	
<b>Total</b>	<b>0.0219</b>	<b>0.1532</b>	<b>0.1920</b>	<b>9.7000e-004</b>	<b>0.0653</b>	<b>1.5400e-003</b>	<b>0.0668</b>	<b>0.0178</b>	<b>1.4700e-003</b>	<b>0.0192</b>	<b>0.0000</b>	<b>91.7963</b>	<b>91.7963</b>	<b>1.4500e-003</b>	<b>9.1000e-003</b>	<b>94.5470</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	0.0879	0.8042	0.8427	1.3900e-003		0.0417	0.0417		0.0392	0.0392	0.0000	119.3384	119.3384	0.0286	0.0000	120.0531
<b>Total</b>	<b>0.0879</b>	<b>0.8042</b>	<b>0.8427</b>	<b>1.3900e-003</b>		<b>0.0417</b>	<b>0.0417</b>		<b>0.0392</b>	<b>0.0392</b>	<b>0.0000</b>	<b>119.3384</b>	<b>119.3384</b>	<b>0.0286</b>	<b>0.0000</b>	<b>120.0531</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****3.4 Building Construction - 2022****Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Vendor	4.9000e-003	0.1413	0.0421	5.5000e-004	0.0172	1.2900e-003	0.0185	4.9700e-003	1.2400e-003	6.2000e-003	0.0000	52.7812	52.7812	2.3000e-004	7.9800e-003	55.1664	
Worker	0.0170	0.0120	0.1499	4.2000e-004	0.0481	2.5000e-004	0.0484	0.0128	2.3000e-004	0.0130	0.0000	39.0151	39.0151	1.2200e-003	1.1200e-003	39.3807	
<b>Total</b>	<b>0.0219</b>	<b>0.1532</b>	<b>0.1920</b>	<b>9.7000e-004</b>	<b>0.0653</b>	<b>1.5400e-003</b>	<b>0.0668</b>	<b>0.0178</b>	<b>1.4700e-003</b>	<b>0.0192</b>	<b>0.0000</b>	<b>91.7963</b>	<b>91.7963</b>	<b>1.4500e-003</b>	<b>9.1000e-003</b>	<b>94.5470</b>	

**3.4 Building Construction - 2023****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	0.0999	0.9134	1.0315	1.7100e-003		0.0444	0.0444		0.0418	0.0418	0.0000	147.1960	147.1960	0.0350	0.0000	148.0714
<b>Total</b>	<b>0.0999</b>	<b>0.9134</b>	<b>1.0315</b>	<b>1.7100e-003</b>		<b>0.0444</b>	<b>0.0444</b>		<b>0.0418</b>	<b>0.0418</b>	<b>0.0000</b>	<b>147.1960</b>	<b>147.1960</b>	<b>0.0350</b>	<b>0.0000</b>	<b>148.0714</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****3.4 Building Construction - 2023****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	3.7200e-003	0.1496	0.0474	6.6000e-004	0.0212	9.0000e-004	0.0221	6.1200e-003	8.6000e-004	6.9800e-003	0.0000	62.8922	62.8922	1.8000e-004	9.5100e-003	65.7306	
Worker	0.0195	0.0131	0.1719	5.0000e-004	0.0593	3.0000e-004	0.0596	0.0158	2.7000e-004	0.0161	0.0000	46.8594	46.8594	1.3700e-003	1.2900e-003	47.2777	
<b>Total</b>	<b>0.0232</b>	<b>0.1627</b>	<b>0.2193</b>	<b>1.1600e-003</b>	<b>0.0805</b>	<b>1.2000e-003</b>	<b>0.0817</b>	<b>0.0219</b>	<b>1.1300e-003</b>	<b>0.0231</b>	<b>0.0000</b>	<b>109.7516</b>	<b>109.7516</b>	<b>1.5500e-003</b>	<b>0.0108</b>	<b>113.0083</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	0.0999	0.9134	1.0315	1.7100e-003		0.0444	0.0444		0.0418	0.0418	0.0000	147.1958	147.1958	0.0350	0.0000	148.0712
<b>Total</b>	<b>0.0999</b>	<b>0.9134</b>	<b>1.0315</b>	<b>1.7100e-003</b>		<b>0.0444</b>	<b>0.0444</b>		<b>0.0418</b>	<b>0.0418</b>	<b>0.0000</b>	<b>147.1958</b>	<b>147.1958</b>	<b>0.0350</b>	<b>0.0000</b>	<b>148.0712</b>

## Rocklin Rezone - Parcel 3 (Approved Conditions) - Placer County APCD Air District, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****3.4 Building Construction - 2023****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	3.7200e-003	0.1496	0.0474	6.6000e-004	0.0212	9.0000e-004	0.0221	6.1200e-003	8.6000e-004	6.9800e-003	0.0000	62.8922	62.8922	1.8000e-004	9.5100e-003	65.7306	
Worker	0.0195	0.0131	0.1719	5.0000e-004	0.0593	3.0000e-004	0.0596	0.0158	2.7000e-004	0.0161	0.0000	46.8594	46.8594	1.3700e-003	1.2900e-003	47.2777	
<b>Total</b>	<b>0.0232</b>	<b>0.1627</b>	<b>0.2193</b>	<b>1.1600e-003</b>	<b>0.0805</b>	<b>1.2000e-003</b>	<b>0.0817</b>	<b>0.0219</b>	<b>1.1300e-003</b>	<b>0.0231</b>	<b>0.0000</b>	<b>109.7516</b>	<b>109.7516</b>	<b>1.5500e-003</b>	<b>0.0108</b>	<b>113.0083</b>	

**3.5 Paving - 2022****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Off-Road	0.0110	0.1113	0.1458	2.3000e-004		5.6800e-003	5.6800e-003		5.2200e-003	5.2200e-003	0.0000	20.0276	20.0276	6.4800e-003	0.0000	20.1895	
Paving	6.0700e-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>0.0171</b>	<b>0.1113</b>	<b>0.1458</b>	<b>2.3000e-004</b>		<b>5.6800e-003</b>	<b>5.6800e-003</b>		<b>5.2200e-003</b>	<b>5.2200e-003</b>	<b>0.0000</b>	<b>20.0276</b>	<b>20.0276</b>	<b>6.4800e-003</b>	<b>0.0000</b>	<b>20.1895</b>	

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****3.5 Paving - 2022****Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Worker	4.2000e-004	2.9000e-004	3.6700e-003	1.0000e-005	1.1800e-003	1.0000e-005	1.1800e-003	3.1000e-004	1.0000e-005	3.2000e-004	0.0000	0.9549	0.9549	3.0000e-005	3.0000e-005	0.9639	
<b>Total</b>	<b>4.2000e-004</b>	<b>2.9000e-004</b>	<b>3.6700e-003</b>	<b>1.0000e-005</b>	<b>1.1800e-003</b>	<b>1.0000e-005</b>	<b>1.1800e-003</b>	<b>3.1000e-004</b>	<b>1.0000e-005</b>	<b>3.2000e-004</b>	<b>0.0000</b>	<b>0.9549</b>	<b>0.9549</b>	<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>0.9639</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	0.0110	0.1113	0.1458	2.3000e-004			5.6800e-003	5.6800e-003		5.2200e-003	5.2200e-003	0.0000	20.0275	20.0275	6.4800e-003	0.0000	20.1895
Paving	6.0700e-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>0.0171</b>	<b>0.1113</b>	<b>0.1458</b>	<b>2.3000e-004</b>			<b>5.6800e-003</b>	<b>5.6800e-003</b>		<b>5.2200e-003</b>	<b>5.2200e-003</b>	<b>0.0000</b>	<b>20.0275</b>	<b>20.0275</b>	<b>6.4800e-003</b>	<b>0.0000</b>	<b>20.1895</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****3.5 Paving - 2022****Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Worker	4.2000e-004	2.9000e-004	3.6700e-003	1.0000e-005	1.1800e-003	1.0000e-005	1.1800e-003	3.1000e-004	1.0000e-005	3.2000e-004	0.0000	0.9549	0.9549	3.0000e-005	3.0000e-005	0.9639	
<b>Total</b>	<b>4.2000e-004</b>	<b>2.9000e-004</b>	<b>3.6700e-003</b>	<b>1.0000e-005</b>	<b>1.1800e-003</b>	<b>1.0000e-005</b>	<b>1.1800e-003</b>	<b>3.1000e-004</b>	<b>1.0000e-005</b>	<b>3.2000e-004</b>	<b>0.0000</b>	<b>0.9549</b>	<b>0.9549</b>	<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>0.9639</b>	

**3.6 Architectural Coating - 2022****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Archit. Coating	0.2041						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Off-Road	9.5100e-003	0.0655	0.0843	1.4000e-004			3.8000e-003	3.8000e-003		3.8000e-003	3.8000e-003	0.0000	11.8726	11.8726	7.7000e-004	0.0000	11.8920
<b>Total</b>	<b>0.2137</b>	<b>0.0655</b>	<b>0.0843</b>	<b>1.4000e-004</b>			<b>3.8000e-003</b>	<b>3.8000e-003</b>		<b>3.8000e-003</b>	<b>3.8000e-003</b>	<b>0.0000</b>	<b>11.8726</b>	<b>11.8726</b>	<b>7.7000e-004</b>	<b>0.0000</b>	<b>11.8920</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****3.6 Architectural Coating - 2022****Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Worker	3.1000e-003	2.1800e-003	0.0273	8.0000e-005	8.7600e-003	5.0000e-005	8.8100e-003	2.3300e-003	4.0000e-005	2.3800e-003	0.0000	7.1047	7.1047	2.2000e-004	2.0000e-004	7.1712	
<b>Total</b>	<b>3.1000e-003</b>	<b>2.1800e-003</b>	<b>0.0273</b>	<b>8.0000e-005</b>	<b>8.7600e-003</b>	<b>5.0000e-005</b>	<b>8.8100e-003</b>	<b>2.3300e-003</b>	<b>4.0000e-005</b>	<b>2.3800e-003</b>	<b>0.0000</b>	<b>7.1047</b>	<b>7.1047</b>	<b>2.2000e-004</b>	<b>2.0000e-004</b>	<b>7.1712</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	0.2041					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.5100e-003	0.0655	0.0843	1.4000e-004		3.8000e-003	3.8000e-003		3.8000e-003	3.8000e-003	0.0000	11.8726	11.8726	7.7000e-004	0.0000	11.8919
<b>Total</b>	<b>0.2137</b>	<b>0.0655</b>	<b>0.0843</b>	<b>1.4000e-004</b>		<b>3.8000e-003</b>	<b>3.8000e-003</b>		<b>3.8000e-003</b>	<b>3.8000e-003</b>	<b>0.0000</b>	<b>11.8726</b>	<b>11.8726</b>	<b>7.7000e-004</b>	<b>0.0000</b>	<b>11.8919</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****3.6 Architectural Coating - 2022****Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Worker	3.1000e-003	2.1800e-003	0.0273	8.0000e-005	8.7600e-003	5.0000e-005	8.8100e-003	2.3300e-003	4.0000e-005	2.3800e-003	0.0000	7.1047	7.1047	2.2000e-004	2.0000e-004	7.1712	
<b>Total</b>	<b>3.1000e-003</b>	<b>2.1800e-003</b>	<b>0.0273</b>	<b>8.0000e-005</b>	<b>8.7600e-003</b>	<b>5.0000e-005</b>	<b>8.8100e-003</b>	<b>2.3300e-003</b>	<b>4.0000e-005</b>	<b>2.3800e-003</b>	<b>0.0000</b>	<b>7.1047</b>	<b>7.1047</b>	<b>2.2000e-004</b>	<b>2.0000e-004</b>	<b>7.1712</b>	

**3.6 Architectural Coating - 2023****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	0.3007					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0131	0.0893	0.1241	2.0000e-004		4.8500e-003	4.8500e-003		4.8500e-003	4.8500e-003	0.0000	17.4898	17.4898	1.0500e-003	0.0000	17.5160
<b>Total</b>	<b>0.3139</b>	<b>0.0893</b>	<b>0.1241</b>	<b>2.0000e-004</b>		<b>4.8500e-003</b>	<b>4.8500e-003</b>		<b>4.8500e-003</b>	<b>4.8500e-003</b>	<b>0.0000</b>	<b>17.4898</b>	<b>17.4898</b>	<b>1.0500e-003</b>	<b>0.0000</b>	<b>17.5160</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****3.6 Architectural Coating - 2023****Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Worker	4.2500e-003	2.8500e-003	0.0374	1.1000e-004	0.0129	6.0000e-005	0.0130	3.4400e-003	6.0000e-005	3.5000e-003	0.0000	10.1948	10.1948	3.0000e-004	2.8000e-004	10.2858	
<b>Total</b>	<b>4.2500e-003</b>	<b>2.8500e-003</b>	<b>0.0374</b>	<b>1.1000e-004</b>	<b>0.0129</b>	<b>6.0000e-005</b>	<b>0.0130</b>	<b>3.4400e-003</b>	<b>6.0000e-005</b>	<b>3.5000e-003</b>	<b>0.0000</b>	<b>10.1948</b>	<b>10.1948</b>	<b>3.0000e-004</b>	<b>2.8000e-004</b>	<b>10.2858</b>	

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.3007						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0131	0.0893	0.1241	2.0000e-004		4.8500e-003	4.8500e-003		4.8500e-003	4.8500e-003	0.0000	17.4898	17.4898	1.0500e-003	0.0000	17.5159
<b>Total</b>	<b>0.3139</b>	<b>0.0893</b>	<b>0.1241</b>	<b>2.0000e-004</b>		<b>4.8500e-003</b>	<b>4.8500e-003</b>		<b>4.8500e-003</b>	<b>4.8500e-003</b>	<b>0.0000</b>	<b>17.4898</b>	<b>17.4898</b>	<b>1.0500e-003</b>	<b>0.0000</b>	<b>17.5159</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****3.6 Architectural Coating - 2023****Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Worker	4.2500e-003	2.8500e-003	0.0374	1.1000e-004	0.0129	6.0000e-005	0.0130	3.4400e-003	6.0000e-005	3.5000e-003	0.0000	10.1948	10.1948	3.0000e-004	2.8000e-004	10.2858	
<b>Total</b>	<b>4.2500e-003</b>	<b>2.8500e-003</b>	<b>0.0374</b>	<b>1.1000e-004</b>	<b>0.0129</b>	<b>6.0000e-005</b>	<b>0.0130</b>	<b>3.4400e-003</b>	<b>6.0000e-005</b>	<b>3.5000e-003</b>	<b>0.0000</b>	<b>10.1948</b>	<b>10.1948</b>	<b>3.0000e-004</b>	<b>2.8000e-004</b>	<b>10.2858</b>	

**4.0 Operational Detail - Mobile****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 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	0.4581	0.6666	4.1900	8.1200e-003	0.7817	7.4300e-003	0.7891	0.2094	6.9700e-003	0.2164	0.0000	757.2744	757.2744	0.0508	0.0416	770.9315	
Unmitigated	0.4581	0.6666	4.1900	8.1200e-003	0.7817	7.4300e-003	0.7891	0.2094	6.9700e-003	0.2164	0.0000	757.2744	757.2744	0.0508	0.0416	770.9315	

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated		Mitigated	
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT	Annual VMT	Annual VMT
Office Park	1,137.53	168.52	78.10	2,124,680	2,124,680	2,124,680	2,124,680
Parking Lot	0.00	0.00	0.00				
Total	1,137.53	168.52	78.10	2,124,680	2,124,680	2,124,680	2,124,680

**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
Office Park	9.50	7.30	7.30	33.00	48.00	19.00	82	15	3
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Office Park	0.463296	0.061073	0.209857	0.155594	0.036099	0.008566	0.013676	0.011873	0.000564	0.000399	0.032288	0.000990	0.005727
Parking Lot	0.463296	0.061073	0.209857	0.155594	0.036099	0.008566	0.013676	0.011873	0.000564	0.000399	0.032288	0.000990	0.005727

**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 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	103.8253	103.8253	0.0168	2.0400e-003	104.8519	
Electricity Unmitigated							0.0000	0.0000		0.0000	0.0000	103.8253	103.8253	0.0168	2.0400e-003	104.8519	
NaturalGas Mitigated	5.9800e-003	0.0544	0.0457	3.3000e-004		4.1300e-003	4.1300e-003		4.1300e-003	4.1300e-003	0.0000	59.2224	59.2224	1.1400e-003	1.0900e-003	59.5744	
NaturalGas Unmitigated	5.9800e-003	0.0544	0.0457	3.3000e-004		4.1300e-003	4.1300e-003		4.1300e-003	4.1300e-003	0.0000	59.2224	59.2224	1.1400e-003	1.0900e-003	59.5744	

## Rocklin Rezone - Parcel 3 (Approved Conditions) - Placer County APCD Air District, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****5.2 Energy by Land Use - NaturalGas****Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Office Park	1.10979e+006	5.9800e-003	0.0544	0.0457	3.3000e-004		4.1300e-003	4.1300e-003		4.1300e-003	4.1300e-003	0.0000	59.2224	59.2224	1.1400e-003	1.0900e-003	59.5744
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>5.9800e-003</b>	<b>0.0544</b>	<b>0.0457</b>	<b>3.3000e-004</b>		<b>4.1300e-003</b>	<b>4.1300e-003</b>		<b>4.1300e-003</b>	<b>4.1300e-003</b>	<b>0.0000</b>	<b>59.2224</b>	<b>59.2224</b>	<b>1.1400e-003</b>	<b>1.0900e-003</b>	<b>59.5744</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					
Office Park	1.10979e+006	5.9800e-003	0.0544	0.0457	3.3000e-004		4.1300e-003	4.1300e-003		4.1300e-003	4.1300e-003	0.0000	59.2224	59.2224	1.1400e-003	1.0900e-003	59.5744
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>5.9800e-003</b>	<b>0.0544</b>	<b>0.0457</b>	<b>3.3000e-004</b>		<b>4.1300e-003</b>	<b>4.1300e-003</b>		<b>4.1300e-003</b>	<b>4.1300e-003</b>	<b>0.0000</b>	<b>59.2224</b>	<b>59.2224</b>	<b>1.1400e-003</b>	<b>1.0900e-003</b>	<b>59.5744</b>

## Rocklin Rezone - Parcel 3 (Approved Conditions) - Placer County APCD Air District, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****5.3 Energy by Land Use - Electricity****Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Office Park	1.05019e+006	97.1672	0.0157	1.9100e-003	98.1281
Parking Lot	71960	6.6580	1.0800e-003	1.3000e-004	6.7239
<b>Total</b>		<b>103.8253</b>	<b>0.0168</b>	<b>2.0400e-003</b>	<b>104.8519</b>

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Office Park	1.05019e+006	97.1672	0.0157	1.9100e-003	98.1281
Parking Lot	71960	6.6580	1.0800e-003	1.3000e-004	6.7239
<b>Total</b>		<b>103.8253</b>	<b>0.0168</b>	<b>2.0400e-003</b>	<b>104.8519</b>

**6.0 Area Detail**

## Rocklin Rezone - Parcel 3 (Approved Conditions) - Placer County APCD Air District, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****6.1 Mitigation Measures Area**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr												MT/yr				
Mitigated	0.4656	5.0000e-005	5.6700e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0110	0.0110	3.0000e-005	0.0000	0.0117	
Unmitigated	0.4656	5.0000e-005	5.6700e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0110	0.0110	3.0000e-005	0.0000	0.0117	

**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	0.0505						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.4146						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	5.2000e-004	5.0000e-005	5.6700e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0110	0.0110	3.0000e-005	0.0000	0.0117
<b>Total</b>	<b>0.4656</b>	<b>5.0000e-005</b>	<b>5.6700e-003</b>	<b>0.0000</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0110</b>	<b>0.0110</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.0117</b>

## Rocklin Rezone - Parcel 3 (Approved Conditions) - Placer County APCD Air District, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****6.2 Area by SubCategory****Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr												MT/yr			
Architectural Coating	0.0505					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.4146					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	5.2000e-004	5.0000e-005	5.6700e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0110	0.0110	3.0000e-005	0.0000	0.0117
<b>Total</b>	<b>0.4656</b>	<b>5.0000e-005</b>	<b>5.6700e-003</b>	<b>0.0000</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0110</b>	<b>0.0110</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.0117</b>

**7.0 Water Detail****7.1 Mitigation Measures Water**

Apply Water Conservation Strategy

## Rocklin Rezone - Parcel 3 (Approved Conditions) - Placer County APCD Air District, Annual

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

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	17.8381	0.5971	0.0143	37.0230
Unmitigated	18.5631	0.5972	0.0143	37.7552

**7.2 Water by Land Use****Unmitigated**

	Indoor/Out door Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Office Park	18.2639 / 11.194	18.5631	0.5972	0.0143	37.7552
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>18.5631</b>	<b>0.5972</b>	<b>0.0143</b>	<b>37.7552</b>

## Rocklin Rezone - Parcel 3 (Approved Conditions) - Placer County APCD Air District, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****7.2 Water by Land Use****Mitigated**

	Indoor/Out door Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Office Park	18.2639 / 8.95521	17.8381	0.5971	0.0143	37.0230
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>17.8381</b>	<b>0.5971</b>	<b>0.0143</b>	<b>37.0230</b>

**8.0 Waste Detail****8.1 Mitigation Measures Waste****Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	19.3999	1.1465	0.0000	48.0623
Unmitigated	19.3999	1.1465	0.0000	48.0623

## Rocklin Rezone - Parcel 3 (Approved Conditions) - Placer County APCD Air District, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****8.2 Waste by Land Use****Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Office Park	95.57	19.3999	1.1465	0.0000	48.0623
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>19.3999</b>	<b>1.1465</b>	<b>0.0000</b>	<b>48.0623</b>

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Office Park	95.57	19.3999	1.1465	0.0000	48.0623
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>19.3999</b>	<b>1.1465</b>	<b>0.0000</b>	<b>48.0623</b>

**9.0 Operational Offroad**

## Rocklin Rezone - Parcel 3 (Approved Conditions) - Placer County APCD Air District, Annual

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

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

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**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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## 11.0 Vegetation

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## Rocklin Rezone - Parcel 3 (Approved Conditions) - Placer County APCD Air District, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****Rocklin Rezone - Parcel 3 (Approved Conditions)**

Placer County APCD Air District, Summer

**1.0 Project Characteristics****1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Office Park	102.76	1000sqft	2.11	102,758.00	0
Parking Lot	514.00	Space	4.63	205,600.00	0

**1.2 Other Project Characteristics**

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	74
Climate Zone	2			Operational Year	2023
Utility Company	Pacific Gas and Electric Company				
CO2 Intensity (lb/MWhr)	203.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

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

## Project Characteristics -

Land Use - Square footage and parking lot spaces based on development assumptions provided by the City. Lot acreage is representative of total lot acreage of the project site.

Construction Phase - Architectural coating adjusted to start two weeks after building construction, and last for the same duration.

Water Mitigation - Compliant with MWELO.

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	230.00
tblConstructionPhase	PhaseEndDate	7/25/2023	7/11/2023
tblConstructionPhase	PhaseEndDate	5/30/2023	6/27/2023
tblConstructionPhase	PhaseEndDate	6/27/2023	8/9/2022
tblConstructionPhase	PhaseStartDate	6/28/2023	8/24/2022

## Rocklin Rezone - Parcel 3 (Approved Conditions) - Placer County APCD Air District, Summer

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

tblConstructionPhase	PhaseStartDate	7/13/2022	8/10/2022
tblConstructionPhase	PhaseStartDate	5/31/2023	7/13/2022
tblLandUse	LotAcreage	2.36	2.11

**2.0 Emissions Summary**

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## Rocklin Rezone - Parcel 3 (Approved Conditions) - Placer County APCD Air District, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****2.1 Overall Construction (Maximum Daily Emission)****Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Year	lb/day										lb/day						
2022	6.8494	33.1146	22.9033	0.0513	19.8049	1.6133	21.4182	10.1417	1.4843	11.6259	0.0000	5,054.652 1	5,054.652 1	1.1958	0.1974	5,130.098 1	
2023	6.6349	18.1488	22.4334	0.0506	1.5203	0.7903	2.3106	0.4111	0.7480	1.1590	0.0000	4,988.631 2	4,988.631 2	0.6541	0.1897	5,061.518 2	
Maximum	6.8494	33.1146	22.9033	0.0513	19.8049	1.6133	21.4182	10.1417	1.4843	11.6259	0.0000	5,054.652 1	5,054.652 1	1.1958	0.1974	5,130.098 1	

**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						
2022	6.8494	33.1146	22.9033	0.0513	19.8049	1.6133	21.4182	10.1417	1.4843	11.6259	0.0000	5,054.652 1	5,054.652 1	1.1958	0.1974	5,130.098 1	
2023	6.6349	18.1488	22.4334	0.0506	1.5203	0.7903	2.3106	0.4111	0.7480	1.1590	0.0000	4,988.631 2	4,988.631 2	0.6541	0.1897	5,061.518 2	
Maximum	6.8494	33.1146	22.9033	0.0513	19.8049	1.6133	21.4182	10.1417	1.4843	11.6259	0.0000	5,054.652 1	5,054.652 1	1.1958	0.1974	5,130.098 1	

Rocklin Rezone - Parcel 3 (Approved Conditions) - Placer County APCD Air District, Summer

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

## Rocklin Rezone - Parcel 3 (Approved Conditions) - Placer County APCD Air District, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****2.2 Overall Operational****Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day											lb/day					
Area	2.5543	5.7000e-004	0.0630	0.0000		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004	0.1350	0.1350	3.5000e-004			0.1438	
Energy	0.0328	0.2981	0.2504	1.7900e-003		0.0227	0.0227		0.0227	0.0227	357.7071	357.7071	6.8600e-003	6.5600e-003		359.8328	
Mobile	3.9799	4.5019	31.4849	0.0636	6.0256	0.0548	6.0804	1.6084	0.0515	1.6599	6,533.385 3	6,533.385 3	0.3813	0.3220		6,638.862 8	
<b>Total</b>	<b>6.5670</b>	<b>4.8005</b>	<b>31.7983</b>	<b>0.0654</b>	<b>6.0256</b>	<b>0.0777</b>	<b>6.1033</b>	<b>1.6084</b>	<b>0.0743</b>	<b>1.6827</b>	<b>6,891.227 4</b>	<b>6,891.227 4</b>	<b>0.3885</b>	<b>0.3285</b>	<b>6,998.839 4</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	2.5543	5.7000e-004	0.0630	0.0000		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004	0.1350	0.1350	3.5000e-004			0.1438	
Energy	0.0328	0.2981	0.2504	1.7900e-003		0.0227	0.0227		0.0227	0.0227	357.7071	357.7071	6.8600e-003	6.5600e-003		359.8328	
Mobile	3.9799	4.5019	31.4849	0.0636	6.0256	0.0548	6.0804	1.6084	0.0515	1.6599	6,533.385 3	6,533.385 3	0.3813	0.3220		6,638.862 8	
<b>Total</b>	<b>6.5670</b>	<b>4.8005</b>	<b>31.7983</b>	<b>0.0654</b>	<b>6.0256</b>	<b>0.0777</b>	<b>6.1033</b>	<b>1.6084</b>	<b>0.0743</b>	<b>1.6827</b>	<b>6,891.227 4</b>	<b>6,891.227 4</b>	<b>0.3885</b>	<b>0.3285</b>	<b>6,998.839 4</b>		

## Rocklin Rezone - Parcel 3 (Approved Conditions) - Placer County APCD Air District, Summer

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

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

**3.0 Construction Detail****Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	6/1/2022	6/14/2022	5	10	
2	Grading	Grading	6/15/2022	7/12/2022	5	20	
3	Building Construction	Building Construction	8/10/2022	6/27/2023	5	230	
4	Paving	Paving	7/13/2022	8/9/2022	5	20	
5	Architectural Coating	Architectural Coating	8/24/2022	7/11/2023	5	230	

Acres of Grading (Site Preparation Phase): 15

Acres of Grading (Grading Phase): 20

Acres of Paving: 4.63

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 154,137; Non-Residential Outdoor: 51,379; Striped Parking Area: 12,336 (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
Building Construction	Cranes	1	7.00	231	0.29
Grading	Excavators	1	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

## Rocklin Rezone - Parcel 3 (Approved Conditions) - Placer County APCD Air District, Summer

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

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
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	4	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
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	119.00	51.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	24.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

## Rocklin Rezone - Parcel 3 (Approved Conditions) - Placer County APCD Air District, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****3.2 Site Preparation - 2022****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day											lb/day					
Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000	
Off-Road	3.1701	33.0835	19.6978	0.0380		1.6126	1.6126		1.4836	1.4836		3,686.061 9	3,686.061 9	1.1922			3,715.865 5
<b>Total</b>	<b>3.1701</b>	<b>33.0835</b>	<b>19.6978</b>	<b>0.0380</b>	<b>19.6570</b>	<b>1.6126</b>	<b>21.2696</b>	<b>10.1025</b>	<b>1.4836</b>	<b>11.5860</b>		<b>3,686.061 9</b>	<b>3,686.061 9</b>	<b>1.1922</b>			<b>3,715.865 5</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day											lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	
Worker	0.0568	0.0311	0.4938	1.3500e-003	0.1479	7.5000e-004	0.1486	0.0392	6.9000e-004	0.0399		137.1631	137.1631	3.6500e-003	3.3600e-003	138.2566	
<b>Total</b>	<b>0.0568</b>	<b>0.0311</b>	<b>0.4938</b>	<b>1.3500e-003</b>	<b>0.1479</b>	<b>7.5000e-004</b>	<b>0.1486</b>	<b>0.0392</b>	<b>6.9000e-004</b>	<b>0.0399</b>		<b>137.1631</b>	<b>137.1631</b>	<b>3.6500e-003</b>	<b>3.3600e-003</b>	<b>138.2566</b>	

## Rocklin Rezone - Parcel 3 (Approved Conditions) - Placer County APCD Air District, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****3.2 Site Preparation - 2022****Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000	
Off-Road	3.1701	33.0835	19.6978	0.0380		1.6126	1.6126		1.4836	1.4836	0.0000	3,686.061 9	3,686.061 9	1.1922		3,715.865 5	
<b>Total</b>	<b>3.1701</b>	<b>33.0835</b>	<b>19.6978</b>	<b>0.0380</b>	<b>19.6570</b>	<b>1.6126</b>	<b>21.2696</b>	<b>10.1025</b>	<b>1.4836</b>	<b>11.5860</b>	<b>0.0000</b>	<b>3,686.061 9</b>	<b>3,686.061 9</b>	<b>1.1922</b>		<b>3,715.865 5</b>	

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	
Worker	0.0568	0.0311	0.4938	1.3500e-003	0.1479	7.5000e-004	0.1486	0.0392	6.9000e-004	0.0399			137.1631	137.1631	3.6500e-003	3.3600e-003	138.2566
<b>Total</b>	<b>0.0568</b>	<b>0.0311</b>	<b>0.4938</b>	<b>1.3500e-003</b>	<b>0.1479</b>	<b>7.5000e-004</b>	<b>0.1486</b>	<b>0.0392</b>	<b>6.9000e-004</b>	<b>0.0399</b>			<b>137.1631</b>	<b>137.1631</b>	<b>3.6500e-003</b>	<b>3.3600e-003</b>	<b>138.2566</b>

## Rocklin Rezone - Parcel 3 (Approved Conditions) - Placer County APCD Air District, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****3.3 Grading - 2022****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Fugitive Dust					7.0826	0.0000	7.0826	3.4247	0.0000	3.4247			0.0000			0.0000	
Off-Road	1.9486	20.8551	15.2727	0.0297		0.9409	0.9409		0.8656	0.8656		2,872.046 4	2,872.046 4	0.9289			2,895.268 4
Total	1.9486	20.8551	15.2727	0.0297	7.0826	0.9409	8.0234	3.4247	0.8656	4.2903		2,872.046 4	2,872.046 4	0.9289			2,895.268 4

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	
Worker	0.0474	0.0259	0.4115	1.1200e-003	0.1232	6.2000e-004	0.1238	0.0327	5.7000e-004	0.0333			114.3026	114.3026	3.0400e-003	2.8000e-003	115.2138
Total	0.0474	0.0259	0.4115	1.1200e-003	0.1232	6.2000e-004	0.1238	0.0327	5.7000e-004	0.0333			114.3026	114.3026	3.0400e-003	2.8000e-003	115.2138

## Rocklin Rezone - Parcel 3 (Approved Conditions) - Placer County APCD Air District, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****3.3 Grading - 2022****Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Fugitive Dust					7.0826	0.0000	7.0826	3.4247	0.0000	3.4247			0.0000			0.0000	
Off-Road	1.9486	20.8551	15.2727	0.0297		0.9409	0.9409		0.8656	0.8656	0.0000	2,872.046 4	2,872.046 4	0.9289		2,895.268 4	
Total	1.9486	20.8551	15.2727	0.0297	7.0826	0.9409	8.0234	3.4247	0.8656	4.2903	0.0000	2,872.046 4	2,872.046 4	0.9289		2,895.268 4	

**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	0.0000	
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Worker	0.0474	0.0259	0.4115	1.1200e-003	0.1232	6.2000e-004	0.1238	0.0327	5.7000e-004	0.0333		114.3026	114.3026	3.0400e-003	2.8000e-003	115.2138	
Total	0.0474	0.0259	0.4115	1.1200e-003	0.1232	6.2000e-004	0.1238	0.0327	5.7000e-004	0.0333		114.3026	114.3026	3.0400e-003	2.8000e-003	115.2138	

## Rocklin Rezone - Parcel 3 (Approved Conditions) - Placer County APCD Air District, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****3.4 Building Construction - 2022****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day															lb/day	
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.333 6	2,554.333 6	0.6120		2,569.632 2	
Total	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.333 6	2,554.333 6	0.6120		2,569.632 2	

**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	0.0000	
Vendor	0.0969	2.6110	0.8031	0.0107	0.3456	0.0251	0.3707	0.0995	0.0240	0.1235		1,129.186 1	1,129.186 1	4.9200e-003	0.1707	1,180.188 0	
Worker	0.3758	0.2053	3.2648	8.9100e-003	0.9776	4.9400e-003	0.9825	0.2593	4.5500e-003	0.2638		906.8003	906.8003	0.0242	0.0222	914.0296	
Total	0.4727	2.8163	4.0679	0.0196	1.3232	0.0300	1.3532	0.3588	0.0285	0.3873		2,035.986 4	2,035.986 4	0.0291	0.1930	2,094.217 6	

## Rocklin Rezone - Parcel 3 (Approved Conditions) - Placer County APCD Air District, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****3.4 Building Construction - 2022****Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day															lb/day	
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322	
Total	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322	

**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	0.0000	
Vendor	0.0969	2.6110	0.8031	0.0107	0.3456	0.0251	0.3707	0.0995	0.0240	0.1235		1,129.1861	1,129.1861	4.9200e-003	0.1707	1,180.1880	
Worker	0.3758	0.2053	3.2648	8.9100e-003	0.9776	4.9400e-003	0.9825	0.2593	4.5500e-003	0.2638		906.8003	906.8003	0.0242	0.0222	914.0296	
Total	0.4727	2.8163	4.0679	0.0196	1.3232	0.0300	1.3532	0.3588	0.0285	0.3873		2,035.9864	2,035.9864	0.0291	0.1930	2,094.2176	

## Rocklin Rezone - Parcel 3 (Approved Conditions) - Placer County APCD Air District, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****3.4 Building Construction - 2023****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	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.209	2,555.209	0.6079		2,570.406	
Total	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.209	2,555.209	0.6079		2,570.406	
												9	9			1	

**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	0.0000	
Vendor	0.0607	2.2416	0.7348	0.0103	0.3456	0.0141	0.3597	0.0995	0.0135	0.1130		1,090.751	1,090.751	3.1900e-003	0.1649	1,139.956	
Worker	0.3492	0.1825	3.0321	8.6300e-003	0.9776	4.6900e-003	0.9823	0.2593	4.3200e-003	0.2636		883.1148	883.1148	0.0219	0.0207	889.8264	
Total	0.4099	2.4241	3.7668	0.0190	1.3231	0.0188	1.3420	0.3588	0.0178	0.3766		1,973.866	1,973.866	0.0250	0.1855	2,029.782	
												0	0			3	

## Rocklin Rezone - Parcel 3 (Approved Conditions) - Placer County APCD Air District, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****3.4 Building Construction - 2023****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	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	2,555.209 9	2,555.209 9	0.6079		2,570.406 1	
Total	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	2,555.209 9	2,555.209 9	0.6079		2,570.406 1	

**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	0.0000	
Vendor	0.0607	2.2416	0.7348	0.0103	0.3456	0.0141	0.3597	0.0995	0.0135	0.1130		1,090.751 2	1,090.751 2	3.1900e- 003	0.1649	1,139.956 0	
Worker	0.3492	0.1825	3.0321	8.6300e- 003	0.9776	4.6900e- 003	0.9823	0.2593	4.3200e- 003	0.2636		883.1148	883.1148	0.0219	0.0207	889.8264	
Total	0.4099	2.4241	3.7668	0.0190	1.3231	0.0188	1.3420	0.3588	0.0178	0.3766		1,973.866 0	1,973.866 0	0.0250	0.1855	2,029.782 3	

## Rocklin Rezone - Parcel 3 (Approved Conditions) - Placer County APCD Air District, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****3.5 Paving - 2022****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225	2,207.660 3	2,207.660 3	0.7140			2,225.510 4
Paving	0.6065					0.0000	0.0000		0.0000	0.0000		0.0000				0.0000
<b>Total</b>	<b>1.7094</b>	<b>11.1249</b>	<b>14.5805</b>	<b>0.0228</b>		<b>0.5679</b>	<b>0.5679</b>		<b>0.5225</b>	<b>0.5225</b>	<b>2,207.660 3</b>	<b>2,207.660 3</b>	<b>0.7140</b>			<b>2,225.510 4</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0474	0.0259	0.4115	1.1200e-003	0.1232	6.2000e-004	0.1238	0.0327	5.7000e-004	0.0333		114.3026	114.3026	3.0400e-003	2.8000e-003	115.2138
<b>Total</b>	<b>0.0474</b>	<b>0.0259</b>	<b>0.4115</b>	<b>1.1200e-003</b>	<b>0.1232</b>	<b>6.2000e-004</b>	<b>0.1238</b>	<b>0.0327</b>	<b>5.7000e-004</b>	<b>0.0333</b>		<b>114.3026</b>	<b>114.3026</b>	<b>3.0400e-003</b>	<b>2.8000e-003</b>	<b>115.2138</b>

## Rocklin Rezone - Parcel 3 (Approved Conditions) - Placer County APCD Air District, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****3.5 Paving - 2022****Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225	0.0000	2,207.660	2,207.660	0.7140		2,225.510	
Paving	0.6065					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000	
<b>Total</b>	<b>1.7094</b>	<b>11.1249</b>	<b>14.5805</b>	<b>0.0228</b>		<b>0.5679</b>	<b>0.5679</b>		<b>0.5225</b>	<b>0.5225</b>	<b>0.0000</b>	<b>2,207.660</b>	<b>2,207.660</b>	<b>0.7140</b>		<b>2,225.510</b>	
																<b>4</b>	

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Worker	0.0474	0.0259	0.4115	1.1200e-003	0.1232	6.2000e-004	0.1238	0.0327	5.7000e-004	0.0333		114.3026	114.3026	3.0400e-003	2.8000e-003	115.2138	
<b>Total</b>	<b>0.0474</b>	<b>0.0259</b>	<b>0.4115</b>	<b>1.1200e-003</b>	<b>0.1232</b>	<b>6.2000e-004</b>	<b>0.1238</b>	<b>0.0327</b>	<b>5.7000e-004</b>	<b>0.0333</b>		<b>114.3026</b>	<b>114.3026</b>	<b>3.0400e-003</b>	<b>2.8000e-003</b>	<b>115.2138</b>	

## Rocklin Rezone - Parcel 3 (Approved Conditions) - Placer County APCD Air District, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****3.6 Architectural Coating - 2022****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Archit. Coating	4.3902						0.0000	0.0000		0.0000			0.0000			0.0000	
Off-Road	0.2045	1.4085	1.8136	2.9700e-003			0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062
Total	4.5947	1.4085	1.8136	2.9700e-003			0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	
Worker	0.0758	0.0414	0.6585	1.8000e-003	0.1972	1.0000e-003	0.1982	0.0523	9.2000e-004	0.0532			182.8841	182.8841	4.8700e-003	4.4800e-003	184.3421
Total	0.0758	0.0414	0.6585	1.8000e-003	0.1972	1.0000e-003	0.1982	0.0523	9.2000e-004	0.0532			182.8841	182.8841	4.8700e-003	4.4800e-003	184.3421

## Rocklin Rezone - Parcel 3 (Approved Conditions) - Placer County APCD Air District, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****3.6 Architectural Coating - 2022****Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Archit. Coating	4.3902						0.0000	0.0000		0.0000			0.0000			0.0000	
Off-Road	0.2045	1.4085	1.8136	2.9700e-003			0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062
<b>Total</b>	<b>4.5947</b>	<b>1.4085</b>	<b>1.8136</b>	<b>2.9700e-003</b>			<b>0.0817</b>	<b>0.0817</b>		<b>0.0817</b>	<b>0.0817</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0183</b>		<b>281.9062</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	
Worker	0.0758	0.0414	0.6585	1.8000e-003	0.1972	1.0000e-003	0.1982	0.0523	9.2000e-004	0.0532			182.8841	182.8841	4.8700e-003	4.4800e-003	184.3421
<b>Total</b>	<b>0.0758</b>	<b>0.0414</b>	<b>0.6585</b>	<b>1.8000e-003</b>	<b>0.1972</b>	<b>1.0000e-003</b>	<b>0.1982</b>	<b>0.0523</b>	<b>9.2000e-004</b>	<b>0.0532</b>			<b>182.8841</b>	<b>182.8841</b>	<b>4.8700e-003</b>	<b>4.4800e-003</b>	<b>184.3421</b>

## Rocklin Rezone - Parcel 3 (Approved Conditions) - Placer County APCD Air District, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****3.6 Architectural Coating - 2023****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Archit. Coating	4.3902						0.0000	0.0000		0.0000			0.0000			0.0000	
Off-Road	0.1917	1.3030	1.8111	2.9700e-003			0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690
Total	4.5819	1.3030	1.8111	2.9700e-003			0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	
Worker	0.0704	0.0368	0.6115	1.7400e-003	0.1972	9.5000e-004	0.1981	0.0523	8.7000e-004	0.0532			178.1072	178.1072	4.4100e-003	4.1700e-003	179.4608
Total	0.0704	0.0368	0.6115	1.7400e-003	0.1972	9.5000e-004	0.1981	0.0523	8.7000e-004	0.0532			178.1072	178.1072	4.4100e-003	4.1700e-003	179.4608

## Rocklin Rezone - Parcel 3 (Approved Conditions) - Placer County APCD Air District, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****3.6 Architectural Coating - 2023****Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Archit. Coating	4.3902						0.0000	0.0000		0.0000			0.0000			0.0000	
Off-Road	0.1917	1.3030	1.8111	2.9700e-003			0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690
<b>Total</b>	<b>4.5819</b>	<b>1.3030</b>	<b>1.8111</b>	<b>2.9700e-003</b>			<b>0.0708</b>	<b>0.0708</b>		<b>0.0708</b>	<b>0.0708</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0168</b>		<b>281.8690</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	
Worker	0.0704	0.0368	0.6115	1.7400e-003	0.1972	9.5000e-004	0.1981	0.0523	8.7000e-004	0.0532			178.1072	178.1072	4.4100e-003	4.1700e-003	179.4608
<b>Total</b>	<b>0.0704</b>	<b>0.0368</b>	<b>0.6115</b>	<b>1.7400e-003</b>	<b>0.1972</b>	<b>9.5000e-004</b>	<b>0.1981</b>	<b>0.0523</b>	<b>8.7000e-004</b>	<b>0.0532</b>			<b>178.1072</b>	<b>178.1072</b>	<b>4.4100e-003</b>	<b>4.1700e-003</b>	<b>179.4608</b>

## Rocklin Rezone - Parcel 3 (Approved Conditions) - Placer County APCD Air District, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****4.0 Operational Detail - Mobile****4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day											lb/day					
Mitigated	3.9799	4.5019	31.4849	0.0636	6.0256	0.0548	6.0804	1.6084	0.0515	1.6599	6,533.385 3	6,533.385 3	0.3813	0.3220	6,638.862 8		
Unmitigated	3.9799	4.5019	31.4849	0.0636	6.0256	0.0548	6.0804	1.6084	0.0515	1.6599	6,533.385 3	6,533.385 3	0.3813	0.3220	6,638.862 8		

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated		Mitigated	
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT	Annual VMT	Annual VMT
Office Park	1,137.53	168.52	78.10	2,124,680	2,124,680	2,124,680	2,124,680
Parking Lot	0.00	0.00	0.00				
Total	1,137.53	168.52	78.10	2,124,680	2,124,680	2,124,680	2,124,680

**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
Office Park	9.50	7.30	7.30	33.00	48.00	19.00	82	15	3
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

**4.4 Fleet Mix**

## Rocklin Rezone - Parcel 3 (Approved Conditions) - Placer County APCD Air District, Summer

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

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Office Park	0.463296	0.061073	0.209857	0.155594	0.036099	0.008566	0.013676	0.011873	0.000564	0.000399	0.032288	0.000990	0.005727
Parking Lot	0.463296	0.061073	0.209857	0.155594	0.036099	0.008566	0.013676	0.011873	0.000564	0.000399	0.032288	0.000990	0.005727

**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	0.0328	0.2981	0.2504	1.7900e-003		0.0227	0.0227		0.0227	0.0227	357.7071	357.7071	6.8600e-003	6.5600e-003	359.8328	
NaturalGas Unmitigated	0.0328	0.2981	0.2504	1.7900e-003		0.0227	0.0227		0.0227	0.0227	357.7071	357.7071	6.8600e-003	6.5600e-003	359.8328	

## Rocklin Rezone - Parcel 3 (Approved Conditions) - Placer County APCD Air District, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****5.2 Energy by Land Use - NaturalGas****Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Office Park	3040.51	0.0328	0.2981	0.2504	1.7900e-003		0.0227	0.0227		0.0227	0.0227	357.7071	357.7071	6.8600e-003	6.5600e-003	359.8328	
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
<b>Total</b>		<b>0.0328</b>	<b>0.2981</b>	<b>0.2504</b>	<b>1.7900e-003</b>		<b>0.0227</b>	<b>0.0227</b>		<b>0.0227</b>	<b>0.0227</b>	<b>357.7071</b>	<b>357.7071</b>	<b>6.8600e-003</b>	<b>6.5600e-003</b>	<b>359.8328</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					
Office Park	3.04051	0.0328	0.2981	0.2504	1.7900e-003		0.0227	0.0227		0.0227	0.0227	357.7071	357.7071	6.8600e-003	6.5600e-003	359.8328	
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
<b>Total</b>		<b>0.0328</b>	<b>0.2981</b>	<b>0.2504</b>	<b>1.7900e-003</b>		<b>0.0227</b>	<b>0.0227</b>		<b>0.0227</b>	<b>0.0227</b>	<b>357.7071</b>	<b>357.7071</b>	<b>6.8600e-003</b>	<b>6.5600e-003</b>	<b>359.8328</b>	

**6.0 Area Detail**

## Rocklin Rezone - Parcel 3 (Approved Conditions) - Placer County APCD Air District, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****6.1 Mitigation Measures Area**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day												lb/day				
Mitigated	2.5543	5.7000e-004	0.0630	0.0000		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004	0.1350	0.1350	3.5000e-004			0.1438	
Unmitigated	2.5543	5.7000e-004	0.0630	0.0000		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004	0.1350	0.1350	3.5000e-004			0.1438	

**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	0.2766					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000	
Consumer Products	2.2718					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000	
Landscaping	5.8300e-003	5.7000e-004	0.0630	0.0000		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004	0.1350	0.1350	3.5000e-004			0.1438	
<b>Total</b>	<b>2.5543</b>	<b>5.7000e-004</b>	<b>0.0630</b>	<b>0.0000</b>		<b>2.2000e-004</b>	<b>2.2000e-004</b>		<b>2.2000e-004</b>	<b>2.2000e-004</b>	<b>0.1350</b>	<b>0.1350</b>	<b>3.5000e-004</b>			<b>0.1438</b>	

## Rocklin Rezone - Parcel 3 (Approved Conditions) - Placer County APCD Air District, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****6.2 Area by SubCategory****Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.2766						0.0000	0.0000		0.0000			0.0000			0.0000
Consumer Products	2.2718						0.0000	0.0000		0.0000			0.0000			0.0000
Landscaping	5.8300e-003	5.7000e-004	0.0630	0.0000		2.2000e-004	2.2000e-004	2.2000e-004	2.2000e-004		0.1350	0.1350	3.5000e-004			0.1438
<b>Total</b>	<b>2.5543</b>	<b>5.7000e-004</b>	<b>0.0630</b>	<b>0.0000</b>		<b>2.2000e-004</b>	<b>2.2000e-004</b>	<b>2.2000e-004</b>	<b>2.2000e-004</b>		<b>0.1350</b>	<b>0.1350</b>	<b>3.5000e-004</b>			<b>0.1438</b>

**7.0 Water Detail****7.1 Mitigation Measures Water**

Apply Water Conservation Strategy

## Rocklin Rezone - Parcel 3 (Approved Conditions) - Placer County APCD Air District, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****8.0 Waste Detail**

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**8.1 Mitigation Measures Waste****9.0 Operational Offroad**

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

**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
----------------	--------	-----------	------------	-------------	-------------	-----------

**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
----------------	--------	----------------	-----------------	---------------	-----------

**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

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## Rocklin Rezone - Parcel 3 (Approved Conditions) - Placer County APCD Air District, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****Rocklin Rezone - Parcel 3 (Approved Conditions)**

Placer County APCD Air District, Winter

**1.0 Project Characteristics****1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Office Park	102.76	1000sqft	2.11	102,758.00	0
Parking Lot	514.00	Space	4.63	205,600.00	0

**1.2 Other Project Characteristics**

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	74
Climate Zone	2			Operational Year	2023
Utility Company	Pacific Gas and Electric Company				
CO2 Intensity (lb/MWhr)	203.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

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

## Project Characteristics -

Land Use - Square footage and parking lot spaces based on development assumptions provided by the City. Lot acreage is representative of total lot acreage of the project site.

Construction Phase - Architectural coating adjusted to start two weeks after building construction, and last for the same duration.

Water Mitigation - Compliant with MWELO.

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	230.00
tblConstructionPhase	PhaseEndDate	7/25/2023	7/11/2023
tblConstructionPhase	PhaseEndDate	5/30/2023	6/27/2023
tblConstructionPhase	PhaseEndDate	6/27/2023	8/9/2022
tblConstructionPhase	PhaseStartDate	6/28/2023	8/24/2022

## Rocklin Rezone - Parcel 3 (Approved Conditions) - Placer County APCD Air District, Winter

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

tblConstructionPhase	PhaseStartDate	7/13/2022	8/10/2022
tblConstructionPhase	PhaseStartDate	5/31/2023	7/13/2022
tblLandUse	LotAcreage	2.36	2.11

**2.0 Emissions Summary**

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## Rocklin Rezone - Parcel 3 (Approved Conditions) - Placer County APCD Air District, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****2.1 Overall Construction (Maximum Daily Emission)****Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Year	lb/day										lb/day						
2022	6.8138	33.1223	22.5783	0.0503	19.8049	1.6133	21.4182	10.1417	1.4843	11.6259	0.0000	4,948.1074	4,948.1074	1.1964	0.2020	5,025.0369	
2023	6.6014	18.3714	22.1393	0.0496	1.5203	0.7904	2.3107	0.4111	0.7480	1.1591	0.0000	4,886.2474	4,886.2474	0.6586	0.1941	4,960.5610	
Maximum	6.8138	33.1223	22.5783	0.0503	19.8049	1.6133	21.4182	10.1417	1.4843	11.6259	0.0000	4,948.1074	4,948.1074	1.1964	0.2020	5,025.0369	

**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						
2022	6.8138	33.1223	22.5783	0.0503	19.8049	1.6133	21.4182	10.1417	1.4843	11.6259	0.0000	4,948.1074	4,948.1074	1.1964	0.2020	5,025.0369	
2023	6.6014	18.3714	22.1393	0.0496	1.5203	0.7904	2.3107	0.4111	0.7480	1.1591	0.0000	4,886.2474	4,886.2474	0.6586	0.1941	4,960.5610	
Maximum	6.8138	33.1223	22.5783	0.0503	19.8049	1.6133	21.4182	10.1417	1.4843	11.6259	0.0000	4,948.1074	4,948.1074	1.1964	0.2020	5,025.0369	

## Rocklin Rezone - Parcel 3 (Approved Conditions) - Placer County APCD Air District, Winter

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

## Rocklin Rezone - Parcel 3 (Approved Conditions) - Placer County APCD Air District, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****2.2 Overall Operational****Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day											lb/day					
Area	2.5543	5.7000e-004	0.0630	0.0000		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004	0.1350	0.1350	3.5000e-004			0.1438	
Energy	0.0328	0.2981	0.2504	1.7900e-003		0.0227	0.0227		0.0227	0.0227	357.7071	357.7071	6.8600e-003	6.5600e-003		359.8328	
Mobile	3.3213	5.1834	32.9902	0.0591	6.0256	0.0549	6.0805	1.6084	0.0515	1.6599	6,071.3668	6,071.3668	0.4450	0.3516		6,187.2536	
<b>Total</b>	<b>5.9084</b>	<b>5.4820</b>	<b>33.3035</b>	<b>0.0609</b>	<b>6.0256</b>	<b>0.0777</b>	<b>6.1033</b>	<b>1.6084</b>	<b>0.0744</b>	<b>1.6828</b>	<b>6,429.2090</b>	<b>6,429.2090</b>	<b>0.4522</b>	<b>0.3581</b>	<b>6,547.2302</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	2.5543	5.7000e-004	0.0630	0.0000		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004	0.1350	0.1350	3.5000e-004			0.1438	
Energy	0.0328	0.2981	0.2504	1.7900e-003		0.0227	0.0227		0.0227	0.0227	357.7071	357.7071	6.8600e-003	6.5600e-003		359.8328	
Mobile	3.3213	5.1834	32.9902	0.0591	6.0256	0.0549	6.0805	1.6084	0.0515	1.6599	6,071.3668	6,071.3668	0.4450	0.3516		6,187.2536	
<b>Total</b>	<b>5.9084</b>	<b>5.4820</b>	<b>33.3035</b>	<b>0.0609</b>	<b>6.0256</b>	<b>0.0777</b>	<b>6.1033</b>	<b>1.6084</b>	<b>0.0744</b>	<b>1.6828</b>	<b>6,429.2090</b>	<b>6,429.2090</b>	<b>0.4522</b>	<b>0.3581</b>	<b>6,547.2302</b>		

## Rocklin Rezone - Parcel 3 (Approved Conditions) - Placer County APCD Air District, Winter

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

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

**3.0 Construction Detail****Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	6/1/2022	6/14/2022	5	10	
2	Grading	Grading	6/15/2022	7/12/2022	5	20	
3	Building Construction	Building Construction	8/10/2022	6/27/2023	5	230	
4	Paving	Paving	7/13/2022	8/9/2022	5	20	
5	Architectural Coating	Architectural Coating	8/24/2022	7/11/2023	5	230	

Acres of Grading (Site Preparation Phase): 15

Acres of Grading (Grading Phase): 20

Acres of Paving: 4.63

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 154,137; Non-Residential Outdoor: 51,379; Striped Parking Area: 12,336 (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
Building Construction	Cranes	1	7.00	231	0.29
Grading	Excavators	1	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

## Rocklin Rezone - Parcel 3 (Approved Conditions) - Placer County APCD Air District, Winter

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

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
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	4	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
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	119.00	51.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	24.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

## Rocklin Rezone - Parcel 3 (Approved Conditions) - Placer County APCD Air District, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****3.2 Site Preparation - 2022****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day											lb/day					
Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000	
Off-Road	3.1701	33.0835	19.6978	0.0380		1.6126	1.6126		1.4836	1.4836		3,686.061 9	3,686.061 9	1.1922		3,715.865 5	
<b>Total</b>	<b>3.1701</b>	<b>33.0835</b>	<b>19.6978</b>	<b>0.0380</b>	<b>19.6570</b>	<b>1.6126</b>	<b>21.2696</b>	<b>10.1025</b>	<b>1.4836</b>	<b>11.5860</b>		<b>3,686.061 9</b>	<b>3,686.061 9</b>	<b>1.1922</b>		<b>3,715.865 5</b>	

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day											lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	
Worker	0.0528	0.0388	0.4489	1.2100e-003	0.1479	7.5000e-004	0.1486	0.0392	6.9000e-004	0.0399		123.5870	123.5870	4.2800e-003	3.9000e-003	124.8549	
<b>Total</b>	<b>0.0528</b>	<b>0.0388</b>	<b>0.4489</b>	<b>1.2100e-003</b>	<b>0.1479</b>	<b>7.5000e-004</b>	<b>0.1486</b>	<b>0.0392</b>	<b>6.9000e-004</b>	<b>0.0399</b>		<b>123.5870</b>	<b>123.5870</b>	<b>4.2800e-003</b>	<b>3.9000e-003</b>	<b>124.8549</b>	

## Rocklin Rezone - Parcel 3 (Approved Conditions) - Placer County APCD Air District, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****3.2 Site Preparation - 2022****Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000	
Off-Road	3.1701	33.0835	19.6978	0.0380		1.6126	1.6126		1.4836	1.4836	0.0000	3,686.061 9	3,686.061 9	1.1922		3,715.865 5	
<b>Total</b>	<b>3.1701</b>	<b>33.0835</b>	<b>19.6978</b>	<b>0.0380</b>	<b>19.6570</b>	<b>1.6126</b>	<b>21.2696</b>	<b>10.1025</b>	<b>1.4836</b>	<b>11.5860</b>	<b>0.0000</b>	<b>3,686.061 9</b>	<b>3,686.061 9</b>	<b>1.1922</b>		<b>3,715.865 5</b>	

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	
Worker	0.0528	0.0388	0.4489	1.2100e-003	0.1479	7.5000e-004	0.1486	0.0392	6.9000e-004	0.0399			123.5870	123.5870	4.2800e-003	3.9000e-003	124.8549
<b>Total</b>	<b>0.0528</b>	<b>0.0388</b>	<b>0.4489</b>	<b>1.2100e-003</b>	<b>0.1479</b>	<b>7.5000e-004</b>	<b>0.1486</b>	<b>0.0392</b>	<b>6.9000e-004</b>	<b>0.0399</b>			<b>123.5870</b>	<b>123.5870</b>	<b>4.2800e-003</b>	<b>3.9000e-003</b>	<b>124.8549</b>

## Rocklin Rezone - Parcel 3 (Approved Conditions) - Placer County APCD Air District, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****3.3 Grading - 2022****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Fugitive Dust					7.0826	0.0000	7.0826	3.4247	0.0000	3.4247			0.0000			0.0000	
Off-Road	1.9486	20.8551	15.2727	0.0297		0.9409	0.9409		0.8656	0.8656		2,872.046 4	2,872.046 4	0.9289			2,895.268 4
Total	1.9486	20.8551	15.2727	0.0297	7.0826	0.9409	8.0234	3.4247	0.8656	4.2903		2,872.046 4	2,872.046 4	0.9289			2,895.268 4

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	
Worker	0.0440	0.0323	0.3741	1.0100e-003	0.1232	6.2000e-004	0.1238	0.0327	5.7000e-004	0.0333			102.9891	102.9891	3.5700e-003	3.2500e-003	104.0458
Total	0.0440	0.0323	0.3741	1.0100e-003	0.1232	6.2000e-004	0.1238	0.0327	5.7000e-004	0.0333			102.9891	102.9891	3.5700e-003	3.2500e-003	104.0458

## Rocklin Rezone - Parcel 3 (Approved Conditions) - Placer County APCD Air District, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****3.3 Grading - 2022****Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Fugitive Dust					7.0826	0.0000	7.0826	3.4247	0.0000	3.4247			0.0000			0.0000	
Off-Road	1.9486	20.8551	15.2727	0.0297		0.9409	0.9409		0.8656	0.8656	0.0000	2,872.046 4	2,872.046 4	0.9289		2,895.268 4	
Total	1.9486	20.8551	15.2727	0.0297	7.0826	0.9409	8.0234	3.4247	0.8656	4.2903	0.0000	2,872.046 4	2,872.046 4	0.9289		2,895.268 4	

**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	0.0000	
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Worker	0.0440	0.0323	0.3741	1.0100e-003	0.1232	6.2000e-004	0.1238	0.0327	5.7000e-004	0.0333		102.9891	102.9891	3.5700e-003	3.2500e-003	104.0458	
Total	0.0440	0.0323	0.3741	1.0100e-003	0.1232	6.2000e-004	0.1238	0.0327	5.7000e-004	0.0333		102.9891	102.9891	3.5700e-003	3.2500e-003	104.0458	

## Rocklin Rezone - Parcel 3 (Approved Conditions) - Placer County APCD Air District, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****3.4 Building Construction - 2022****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day															lb/day	
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.333 6	2,554.333 6	0.6120		2,569.632 2	
Total	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.333 6	2,554.333 6	0.6120		2,569.632 2	

**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	0.0000	
Vendor	0.0933	2.7987	0.8351	0.0107	0.3456	0.0252	0.3708	0.0995	0.0241	0.1236		1,130.495 9	1,130.495 9	4.7500e- 003	0.1711	1,181.595 5	
Worker	0.3491	0.2564	2.9677	8.0300e- 003	0.9776	4.9400e- 003	0.9825	0.2593	4.5500e- 003	0.2638		817.0472	817.0472	0.0283	0.0258	825.4298	
Total	0.4424	3.0551	3.8028	0.0187	1.3232	0.0301	1.3533	0.3588	0.0286	0.3874		1,947.543 1	1,947.543 1	0.0330	0.1968	2,007.025 3	

## Rocklin Rezone - Parcel 3 (Approved Conditions) - Placer County APCD Air District, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****3.4 Building Construction - 2022****Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day														lb/day	
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322
Total	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322

**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	0.0000
Vendor	0.0933	2.7987	0.8351	0.0107	0.3456	0.0252	0.3708	0.0995	0.0241	0.1236		1,130.4959	1,130.4959	4.7500e-003	0.1711	1,181.5955
Worker	0.3491	0.2564	2.9677	8.0300e-003	0.9776	4.9400e-003	0.9825	0.2593	4.5500e-003	0.2638		817.0472	817.0472	0.0283	0.0258	825.4298
Total	0.4424	3.0551	3.8028	0.0187	1.3232	0.0301	1.3533	0.3588	0.0286	0.3874		1,947.5431	1,947.5431	0.0330	0.1968	2,007.0253

## Rocklin Rezone - Parcel 3 (Approved Conditions) - Placer County APCD Air District, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****3.4 Building Construction - 2023****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	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.209	2,555.209	0.6079		2,570.406	
Total	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.209	2,555.209	0.6079		2,570.406	
												9	9			1	

**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	0.0000	
Vendor	0.0564	2.4100	0.7616	0.0104	0.3456	0.0142	0.3598	0.0995	0.0136	0.1131		1,093.155	1,093.155	3.0000e-003	0.1654	1,142.504	
Worker	0.3249	0.2276	2.7649	7.7800e-003	0.9776	4.6900e-003	0.9823	0.2593	4.3200e-003	0.2636		795.9132	795.9132	0.0257	0.0240	803.6924	
Total	0.3813	2.6376	3.5265	0.0181	1.3231	0.0189	1.3420	0.3588	0.0179	0.3767		1,889.069	1,889.069	0.0287	0.1893	1,946.196	
												1	1			7	

## Rocklin Rezone - Parcel 3 (Approved Conditions) - Placer County APCD Air District, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****3.4 Building Construction - 2023****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	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	2,555.209 9	2,555.209 9	0.6079		2,570.406 1	
Total	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	2,555.209 9	2,555.209 9	0.6079		2,570.406 1	

**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	0.0000	
Vendor	0.0564	2.4100	0.7616	0.0104	0.3456	0.0142	0.3598	0.0995	0.0136	0.1131		1,093.155 9	1,093.155 9	3.0000e-003	0.1654	1,142.504 4	
Worker	0.3249	0.2276	2.7649	7.7800e-003	0.9776	4.6900e-003	0.9823	0.2593	4.3200e-003	0.2636		795.9132	795.9132	0.0257	0.0240	803.6924	
Total	0.3813	2.6376	3.5265	0.0181	1.3231	0.0189	1.3420	0.3588	0.0179	0.3767		1,889.069 1	1,889.069 1	0.0287	0.1893	1,946.196 7	

## Rocklin Rezone - Parcel 3 (Approved Conditions) - Placer County APCD Air District, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****3.5 Paving - 2022****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225	2,207.660 3	2,207.660 3	0.7140			2,225.510 4	
Paving	0.6065					0.0000	0.0000		0.0000	0.0000		0.0000				0.0000	
<b>Total</b>	<b>1.7094</b>	<b>11.1249</b>	<b>14.5805</b>	<b>0.0228</b>		<b>0.5679</b>	<b>0.5679</b>		<b>0.5225</b>	<b>0.5225</b>	<b>2,207.660 3</b>	<b>2,207.660 3</b>	<b>0.7140</b>			<b>2,225.510 4</b>	

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Worker	0.0440	0.0323	0.3741	1.0100e-003	0.1232	6.2000e-004	0.1238	0.0327	5.7000e-004	0.0333	102.9891	102.9891	3.5700e-003	3.2500e-003	104.0458		
<b>Total</b>	<b>0.0440</b>	<b>0.0323</b>	<b>0.3741</b>	<b>1.0100e-003</b>	<b>0.1232</b>	<b>6.2000e-004</b>	<b>0.1238</b>	<b>0.0327</b>	<b>5.7000e-004</b>	<b>0.0333</b>	<b>102.9891</b>	<b>102.9891</b>	<b>3.5700e-003</b>	<b>3.2500e-003</b>	<b>104.0458</b>		

## Rocklin Rezone - Parcel 3 (Approved Conditions) - Placer County APCD Air District, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****3.5 Paving - 2022****Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225	0.0000	2,207.660	2,207.660	0.7140		2,225.510	
Paving	0.6065					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000	
<b>Total</b>	<b>1.7094</b>	<b>11.1249</b>	<b>14.5805</b>	<b>0.0228</b>		<b>0.5679</b>	<b>0.5679</b>		<b>0.5225</b>	<b>0.5225</b>	<b>0.0000</b>	<b>2,207.660</b>	<b>2,207.660</b>	<b>0.7140</b>		<b>2,225.510</b>	
																<b>4</b>	

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Worker	0.0440	0.0323	0.3741	1.0100e-003	0.1232	6.2000e-004	0.1238	0.0327	5.7000e-004	0.0333		102.9891	102.9891	3.5700e-003	3.2500e-003	104.0458	
<b>Total</b>	<b>0.0440</b>	<b>0.0323</b>	<b>0.3741</b>	<b>1.0100e-003</b>	<b>0.1232</b>	<b>6.2000e-004</b>	<b>0.1238</b>	<b>0.0327</b>	<b>5.7000e-004</b>	<b>0.0333</b>		<b>102.9891</b>	<b>102.9891</b>	<b>3.5700e-003</b>	<b>3.2500e-003</b>	<b>104.0458</b>	

## Rocklin Rezone - Parcel 3 (Approved Conditions) - Placer County APCD Air District, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****3.6 Architectural Coating - 2022****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Archit. Coating	4.3902						0.0000	0.0000		0.0000			0.0000			0.0000	
Off-Road	0.2045	1.4085	1.8136	2.9700e-003			0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062
<b>Total</b>	<b>4.5947</b>	<b>1.4085</b>	<b>1.8136</b>	<b>2.9700e-003</b>			<b>0.0817</b>	<b>0.0817</b>		<b>0.0817</b>	<b>0.0817</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0183</b>		<b>281.9062</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	
Worker	0.0704	0.0517	0.5985	1.6200e-003	0.1972	1.0000e-003	0.1982	0.0523	9.2000e-004	0.0532			164.7826	164.7826	5.7000e-003	5.1900e-003	166.4732
<b>Total</b>	<b>0.0704</b>	<b>0.0517</b>	<b>0.5985</b>	<b>1.6200e-003</b>	<b>0.1972</b>	<b>1.0000e-003</b>	<b>0.1982</b>	<b>0.0523</b>	<b>9.2000e-004</b>	<b>0.0532</b>			<b>164.7826</b>	<b>164.7826</b>	<b>5.7000e-003</b>	<b>5.1900e-003</b>	<b>166.4732</b>

## Rocklin Rezone - Parcel 3 (Approved Conditions) - Placer County APCD Air District, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****3.6 Architectural Coating - 2022****Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Archit. Coating	4.3902						0.0000	0.0000		0.0000			0.0000			0.0000	
Off-Road	0.2045	1.4085	1.8136	2.9700e-003			0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062
Total	4.5947	1.4085	1.8136	2.9700e-003			0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	
Worker	0.0704	0.0517	0.5985	1.6200e-003	0.1972	1.0000e-003	0.1982	0.0523	9.2000e-004	0.0532			164.7826	164.7826	5.7000e-003	5.1900e-003	166.4732
Total	0.0704	0.0517	0.5985	1.6200e-003	0.1972	1.0000e-003	0.1982	0.0523	9.2000e-004	0.0532			164.7826	164.7826	5.7000e-003	5.1900e-003	166.4732

## Rocklin Rezone - Parcel 3 (Approved Conditions) - Placer County APCD Air District, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****3.6 Architectural Coating - 2023****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Archit. Coating	4.3902						0.0000	0.0000		0.0000			0.0000			0.0000	
Off-Road	0.1917	1.3030	1.8111	2.9700e-003			0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690
<b>Total</b>	<b>4.5819</b>	<b>1.3030</b>	<b>1.8111</b>	<b>2.9700e-003</b>			<b>0.0708</b>	<b>0.0708</b>		<b>0.0708</b>	<b>0.0708</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0168</b>		<b>281.8690</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	
Worker	0.0655	0.0459	0.5576	1.5700e-003	0.1972	9.5000e-004	0.1981	0.0523	8.7000e-004	0.0532			160.5203	160.5203	5.1800e-003	4.8300e-003	162.0892
<b>Total</b>	<b>0.0655</b>	<b>0.0459</b>	<b>0.5576</b>	<b>1.5700e-003</b>	<b>0.1972</b>	<b>9.5000e-004</b>	<b>0.1981</b>	<b>0.0523</b>	<b>8.7000e-004</b>	<b>0.0532</b>			<b>160.5203</b>	<b>160.5203</b>	<b>5.1800e-003</b>	<b>4.8300e-003</b>	<b>162.0892</b>

## Rocklin Rezone - Parcel 3 (Approved Conditions) - Placer County APCD Air District, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****3.6 Architectural Coating - 2023****Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Archit. Coating	4.3902						0.0000	0.0000		0.0000			0.0000			0.0000	
Off-Road	0.1917	1.3030	1.8111	2.9700e-003			0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690
Total	4.5819	1.3030	1.8111	2.9700e-003			0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	
Worker	0.0655	0.0459	0.5576	1.5700e-003	0.1972	9.5000e-004	0.1981	0.0523	8.7000e-004	0.0532			160.5203	160.5203	5.1800e-003	4.8300e-003	162.0892
Total	0.0655	0.0459	0.5576	1.5700e-003	0.1972	9.5000e-004	0.1981	0.0523	8.7000e-004	0.0532			160.5203	160.5203	5.1800e-003	4.8300e-003	162.0892

## Rocklin Rezone - Parcel 3 (Approved Conditions) - Placer County APCD Air District, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****4.0 Operational Detail - Mobile****4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	3.3213	5.1834	32.9902	0.0591	6.0256	0.0549	6.0805	1.6084	0.0515	1.6599	6,071.366 8	6,071.366 8	0.4450	0.3516	6,187.253 6	
Unmitigated	3.3213	5.1834	32.9902	0.0591	6.0256	0.0549	6.0805	1.6084	0.0515	1.6599	6,071.366 8	6,071.366 8	0.4450	0.3516	6,187.253 6	

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated		Mitigated	
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT	Annual VMT	Annual VMT
Office Park	1,137.53	168.52	78.10	2,124,680	2,124,680	2,124,680	2,124,680
Parking Lot	0.00	0.00	0.00				
Total	1,137.53	168.52	78.10	2,124,680	2,124,680	2,124,680	2,124,680

**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
Office Park	9.50	7.30	7.30	33.00	48.00	19.00	82	15	3
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

**4.4 Fleet Mix**

## Rocklin Rezone - Parcel 3 (Approved Conditions) - Placer County APCD Air District, Winter

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

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Office Park	0.463296	0.061073	0.209857	0.155594	0.036099	0.008566	0.013676	0.011873	0.000564	0.000399	0.032288	0.000990	0.005727
Parking Lot	0.463296	0.061073	0.209857	0.155594	0.036099	0.008566	0.013676	0.011873	0.000564	0.000399	0.032288	0.000990	0.005727

**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	0.0328	0.2981	0.2504	1.7900e-003		0.0227	0.0227		0.0227	0.0227	357.7071	357.7071	6.8600e-003	6.5600e-003	359.8328	
NaturalGas Unmitigated	0.0328	0.2981	0.2504	1.7900e-003		0.0227	0.0227		0.0227	0.0227	357.7071	357.7071	6.8600e-003	6.5600e-003	359.8328	

## Rocklin Rezone - Parcel 3 (Approved Conditions) - Placer County APCD Air District, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****5.2 Energy by Land Use - NaturalGas****Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Office Park	3040.51	0.0328	0.2981	0.2504	1.7900e-003		0.0227	0.0227		0.0227	0.0227	357.7071	357.7071	6.8600e-003	6.5600e-003	359.8328	
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
<b>Total</b>		<b>0.0328</b>	<b>0.2981</b>	<b>0.2504</b>	<b>1.7900e-003</b>		<b>0.0227</b>	<b>0.0227</b>		<b>0.0227</b>	<b>0.0227</b>	<b>357.7071</b>	<b>357.7071</b>	<b>6.8600e-003</b>	<b>6.5600e-003</b>	<b>359.8328</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					
Office Park	3.04051	0.0328	0.2981	0.2504	1.7900e-003		0.0227	0.0227		0.0227	0.0227	357.7071	357.7071	6.8600e-003	6.5600e-003	359.8328	
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
<b>Total</b>		<b>0.0328</b>	<b>0.2981</b>	<b>0.2504</b>	<b>1.7900e-003</b>		<b>0.0227</b>	<b>0.0227</b>		<b>0.0227</b>	<b>0.0227</b>	<b>357.7071</b>	<b>357.7071</b>	<b>6.8600e-003</b>	<b>6.5600e-003</b>	<b>359.8328</b>	

**6.0 Area Detail**

## Rocklin Rezone - Parcel 3 (Approved Conditions) - Placer County APCD Air District, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****6.1 Mitigation Measures Area**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day												lb/day				
Mitigated	2.5543	5.7000e-004	0.0630	0.0000		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004	0.1350	0.1350	3.5000e-004			0.1438	
Unmitigated	2.5543	5.7000e-004	0.0630	0.0000		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004	0.1350	0.1350	3.5000e-004			0.1438	

**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	0.2766					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000	
Consumer Products	2.2718					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000	
Landscaping	5.8300e-003	5.7000e-004	0.0630	0.0000		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004	0.1350	0.1350	3.5000e-004			0.1438	
<b>Total</b>	<b>2.5543</b>	<b>5.7000e-004</b>	<b>0.0630</b>	<b>0.0000</b>		<b>2.2000e-004</b>	<b>2.2000e-004</b>		<b>2.2000e-004</b>	<b>2.2000e-004</b>	<b>0.1350</b>	<b>0.1350</b>	<b>3.5000e-004</b>			<b>0.1438</b>	

## Rocklin Rezone - Parcel 3 (Approved Conditions) - Placer County APCD Air District, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****6.2 Area by SubCategory****Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.2766						0.0000	0.0000		0.0000			0.0000			0.0000
Consumer Products	2.2718						0.0000	0.0000		0.0000			0.0000			0.0000
Landscaping	5.8300e-003	5.7000e-004	0.0630	0.0000		2.2000e-004	2.2000e-004	2.2000e-004	2.2000e-004		0.1350	0.1350	3.5000e-004			0.1438
<b>Total</b>	<b>2.5543</b>	<b>5.7000e-004</b>	<b>0.0630</b>	<b>0.0000</b>		<b>2.2000e-004</b>	<b>2.2000e-004</b>	<b>2.2000e-004</b>	<b>2.2000e-004</b>		<b>0.1350</b>	<b>0.1350</b>	<b>3.5000e-004</b>			<b>0.1438</b>

**7.0 Water Detail****7.1 Mitigation Measures Water**

Apply Water Conservation Strategy

## Rocklin Rezone - Parcel 3 (Approved Conditions) - Placer County APCD Air District, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****8.0 Waste Detail**

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**8.1 Mitigation Measures Waste****9.0 Operational Offroad**

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

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**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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**11.0 Vegetation**

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## Rocklin Rezone - Parcel 3 (Multi-Family Residential) - Placer County APCD Air District, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****Rocklin Rezone - Parcel 3 (Multi-Family Residential)**

Placer County APCD Air District, Annual

**1.0 Project Characteristics****1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	435.00	Space	3.91	174,000.00	0
Health Club	15.00	1000sqft	0.34	15,000.00	0
Apartments Mid Rise	202.00	Dwelling Unit	2.49	202,000.00	578

**1.2 Other Project Characteristics**

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	74
Climate Zone	2			Operational Year	2023
Utility Company	Pacific Gas and Electric Company				
CO2 Intensity (lb/MWhr)	203.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

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

Project Characteristics -

Land Use - Lot acreage adjusted to be consistent with City's development assumptions.

Construction Phase - Architectural coating adjusted to start two weeks after building construction and last for the same duration.

Water Mitigation - Compliant with MWELO.

Area Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	230.00
tblLandUse	LotAcreage	5.32	2.49

## Rocklin Rezone - Parcel 3 (Multi-Family Residential) - Placer County APCD Air District, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****2.0 Emissions Summary****2.1 Overall Construction**Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2022	0.7420	1.5292	1.7119	3.7800e-003	0.2974	0.0705	0.3680	0.1193	0.0661	0.1855	0.0000	338.4363	338.4363	0.0527	0.0109	342.9961
2023	0.9705	1.1882	1.6000	3.7600e-003	0.1584	0.0509	0.2093	0.0427	0.0482	0.0909	0.0000	337.7592	337.7592	0.0394	0.0129	342.5720
Maximum	0.9705	1.5292	1.7119	3.7800e-003	0.2974	0.0705	0.3680	0.1193	0.0661	0.1855	0.0000	338.4363	338.4363	0.0527	0.0129	342.9961

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					
2022	0.7420	1.5292	1.7119	3.7800e-003	0.2974	0.0705	0.3680	0.1193	0.0661	0.1855	0.0000	338.4360	338.4360	0.0527	0.0109	342.9958
2023	0.9705	1.1882	1.6000	3.7600e-003	0.1584	0.0509	0.2093	0.0427	0.0482	0.0909	0.0000	337.7590	337.7590	0.0394	0.0129	342.5718
Maximum	0.9705	1.5292	1.7119	3.7800e-003	0.2974	0.0705	0.3680	0.1193	0.0661	0.1855	0.0000	338.4360	338.4360	0.0527	0.0129	342.9958

## Rocklin Rezone - Parcel 3 (Multi-Family Residential) - Placer County APCD Air District, Annual

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

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

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	6-1-2022	8-31-2022	0.7444	0.7444
2	9-1-2022	11-30-2022	1.1388	1.1388
3	12-1-2022	2-28-2023	1.0858	1.0858
4	3-1-2023	5-31-2023	1.0820	1.0820
5	6-1-2023	8-31-2023	0.3843	0.3843
		Highest	1.1388	1.1388

**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	13.7148	0.2649	17.1499	0.0284		2.2020	2.2020		2.2020	2.2020	208.6575	89.9660	298.6234	0.1949	0.0164	308.3877	
Energy	0.0118	0.1012	0.0487	6.4000e-004		8.1200e-003	8.1200e-003		8.1200e-003	8.1200e-003	0.0000	206.1696	206.1696	0.0168	3.8900e-003	207.7495	
Mobile	0.8123	1.1842	7.4416	0.0144	1.3900	0.0132	1.4032	0.3724	0.0124	0.3848	0.0000	1,346.3756	1,346.3756	0.0902	0.0738	1,370.6298	
Waste						0.0000	0.0000		0.0000	0.0000	36.2177	0.0000	36.2177	2.1404	0.0000	89.7277	
Water						0.0000	0.0000		0.0000	0.0000	4.4569	9.8962	14.3531	0.4594	0.0110	29.1160	
<b>Total</b>	<b>14.5389</b>	<b>1.5502</b>	<b>24.6402</b>	<b>0.0435</b>	<b>1.3900</b>	<b>2.2233</b>	<b>3.6133</b>	<b>0.3724</b>	<b>2.2225</b>	<b>2.5949</b>	<b>249.3320</b>	<b>1,652.4073</b>	<b>1,901.7393</b>	<b>2.9016</b>	<b>0.1051</b>	<b>2,005.6106</b>	

## Rocklin Rezone - Parcel 3 (Multi-Family Residential) - Placer County APCD Air District, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****2.2 Overall Operational****Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.0546	0.1410	1.5570	8.7000e-004		0.0183	0.0183		0.0183	0.0183	0.0000	145.6528	145.6528	5.1200e-003	2.6300e-003	146.5632
Energy	0.0118	0.1012	0.0487	6.4000e-004		8.1200e-003	8.1200e-003		8.1200e-003	8.1200e-003	0.0000	206.1696	206.1696	0.0168	3.8900e-003	207.7495
Mobile	0.8123	1.1842	7.4416	0.0144	1.3900	0.0132	1.4032	0.3724	0.0124	0.3848	0.0000	1,346.3756	1,346.3756	0.0902	0.0738	1,370.6298
Waste						0.0000	0.0000		0.0000	0.0000	36.2177	0.0000	36.2177	2.1404	0.0000	89.7277
Water						0.0000	0.0000		0.0000	0.0000	4.4569	9.3236	13.7805	0.4593	0.0110	28.5378
<b>Total</b>	<b>1.8786</b>	<b>1.4264</b>	<b>9.0472</b>	<b>0.0160</b>	<b>1.3900</b>	<b>0.0396</b>	<b>1.4297</b>	<b>0.3724</b>	<b>0.0388</b>	<b>0.4112</b>	<b>40.6745</b>	<b>1,707.5216</b>	<b>1,748.1961</b>	<b>2.7117</b>	<b>0.0913</b>	<b>1,843.2078</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	87.08	7.99	63.28	63.33	0.00	98.22	60.43	0.00	98.25	84.15	83.69	-3.34	8.07	6.54	13.12	8.10

**3.0 Construction Detail****Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	6/1/2022	6/14/2022	5	10	
2	Grading	Grading	6/15/2022	7/12/2022	5	20	
3	Paving	Paving	7/13/2022	8/9/2022	5	20	

## Rocklin Rezone - Parcel 3 (Multi-Family Residential) - Placer County APCD Air District, Annual

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

4	Building Construction	Building Construction	8/10/2022	6/27/2023	5	230
5	Architectural Coating	Architectural Coating	8/24/2022	7/11/2023	5	230

**Acres of Grading (Site Preparation Phase): 15****Acres of Grading (Grading Phase): 20****Acres of Paving: 3.91**

**Residential Indoor: 409,050; Residential Outdoor: 136,350; Non-Residential Indoor: 22,500; Non-Residential Outdoor: 7,500; Striped Parking Area: 10,440 (Architectural Coating – sqft)**

**OffRoad Equipment**

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

**Trips and VMT**

## Rocklin Rezone - Parcel 3 (Multi-Family Residential) - Placer County APCD Air District, Annual

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

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	225.00	53.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	45.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction****3.2 Site Preparation - 2022****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Fugitive Dust					0.0983	0.0000	0.0983	0.0505	0.0000	0.0505	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Off-Road	0.0159	0.1654	0.0985	1.9000e-004		8.0600e-003	8.0600e-003		7.4200e-003	7.4200e-003	0.0000	16.7197	16.7197	5.4100e-003	0.0000	16.8549	
Total	0.0159	0.1654	0.0985	1.9000e-004	0.0983	8.0600e-003	0.1064	0.0505	7.4200e-003	0.0579	0.0000	16.7197	16.7197	5.4100e-003	0.0000	16.8549	

## Rocklin Rezone - Parcel 3 (Multi-Family Residential) - Placer County APCD Air District, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****3.2 Site Preparation - 2022****Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Worker	2.5000e-004	1.8000e-004	2.2000e-003	1.0000e-005	7.1000e-004	0.0000	7.1000e-004	1.9000e-004	0.0000	1.9000e-004	0.0000	0.5730	0.5730	2.0000e-005	2.0000e-005	0.5783	
<b>Total</b>	<b>2.5000e-004</b>	<b>1.8000e-004</b>	<b>2.2000e-003</b>	<b>1.0000e-005</b>	<b>7.1000e-004</b>	<b>0.0000</b>	<b>7.1000e-004</b>	<b>1.9000e-004</b>	<b>0.0000</b>	<b>1.9000e-004</b>	<b>0.0000</b>	<b>0.5730</b>	<b>0.5730</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.5783</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					0.0983	0.0000	0.0983	0.0505	0.0000	0.0505	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0159	0.1654	0.0985	1.9000e-004		8.0600e-003	8.0600e-003		7.4200e-003	7.4200e-003	0.0000	16.7197	16.7197	5.4100e-003	0.0000	16.8549
<b>Total</b>	<b>0.0159</b>	<b>0.1654</b>	<b>0.0985</b>	<b>1.9000e-004</b>	<b>0.0983</b>	<b>8.0600e-003</b>	<b>0.1064</b>	<b>0.0505</b>	<b>7.4200e-003</b>	<b>0.0579</b>	<b>0.0000</b>	<b>16.7197</b>	<b>16.7197</b>	<b>5.4100e-003</b>	<b>0.0000</b>	<b>16.8549</b>

## Rocklin Rezone - Parcel 3 (Multi-Family Residential) - Placer County APCD Air District, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****3.2 Site Preparation - 2022****Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Worker	2.5000e-004	1.8000e-004	2.2000e-003	1.0000e-005	7.1000e-004	0.0000	7.1000e-004	1.9000e-004	0.0000	1.9000e-004	0.0000	0.5730	0.5730	2.0000e-005	2.0000e-005	0.5783	
<b>Total</b>	<b>2.5000e-004</b>	<b>1.8000e-004</b>	<b>2.2000e-003</b>	<b>1.0000e-005</b>	<b>7.1000e-004</b>	<b>0.0000</b>	<b>7.1000e-004</b>	<b>1.9000e-004</b>	<b>0.0000</b>	<b>1.9000e-004</b>	<b>0.0000</b>	<b>0.5730</b>	<b>0.5730</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.5783</b>	

**3.3 Grading - 2022****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0708	0.0000	0.0708	0.0343	0.0000	0.0343	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0195	0.2086	0.1527	3.0000e-004		9.4100e-003	9.4100e-003		8.6600e-003	8.6600e-003	0.0000	26.0548	26.0548	8.4300e-003	0.0000	26.2654
<b>Total</b>	<b>0.0195</b>	<b>0.2086</b>	<b>0.1527</b>	<b>3.0000e-004</b>	<b>0.0708</b>	<b>9.4100e-003</b>	<b>0.0802</b>	<b>0.0343</b>	<b>8.6600e-003</b>	<b>0.0429</b>	<b>0.0000</b>	<b>26.0548</b>	<b>26.0548</b>	<b>8.4300e-003</b>	<b>0.0000</b>	<b>26.2654</b>

## Rocklin Rezone - Parcel 3 (Multi-Family Residential) - Placer County APCD Air District, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****3.3 Grading - 2022****Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Worker	4.2000e-004	2.9000e-004	3.6700e-003	1.0000e-005	1.1800e-003	1.0000e-005	1.1800e-003	3.1000e-004	1.0000e-005	3.2000e-004	0.0000	0.9549	0.9549	3.0000e-005	3.0000e-005	0.9639	
<b>Total</b>	<b>4.2000e-004</b>	<b>2.9000e-004</b>	<b>3.6700e-003</b>	<b>1.0000e-005</b>	<b>1.1800e-003</b>	<b>1.0000e-005</b>	<b>1.1800e-003</b>	<b>3.1000e-004</b>	<b>1.0000e-005</b>	<b>3.2000e-004</b>	<b>0.0000</b>	<b>0.9549</b>	<b>0.9549</b>	<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>0.9639</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					0.0708	0.0000	0.0708	0.0343	0.0000	0.0343	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0195	0.2086	0.1527	3.0000e-004		9.4100e-003	9.4100e-003		8.6600e-003	8.6600e-003	0.0000	26.0547	26.0547	8.4300e-003	0.0000	26.2654
<b>Total</b>	<b>0.0195</b>	<b>0.2086</b>	<b>0.1527</b>	<b>3.0000e-004</b>	<b>0.0708</b>	<b>9.4100e-003</b>	<b>0.0802</b>	<b>0.0343</b>	<b>8.6600e-003</b>	<b>0.0429</b>	<b>0.0000</b>	<b>26.0547</b>	<b>26.0547</b>	<b>8.4300e-003</b>	<b>0.0000</b>	<b>26.2654</b>

## Rocklin Rezone - Parcel 3 (Multi-Family Residential) - Placer County APCD Air District, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****3.3 Grading - 2022****Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Worker	4.2000e-004	2.9000e-004	3.6700e-003	1.0000e-005	1.1800e-003	1.0000e-005	1.1800e-003	3.1000e-004	1.0000e-005	3.2000e-004	0.0000	0.9549	0.9549	3.0000e-005	3.0000e-005	0.9639	
<b>Total</b>	<b>4.2000e-004</b>	<b>2.9000e-004</b>	<b>3.6700e-003</b>	<b>1.0000e-005</b>	<b>1.1800e-003</b>	<b>1.0000e-005</b>	<b>1.1800e-003</b>	<b>3.1000e-004</b>	<b>1.0000e-005</b>	<b>3.2000e-004</b>	<b>0.0000</b>	<b>0.9549</b>	<b>0.9549</b>	<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>0.9639</b>	

**3.4 Paving - 2022****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Off-Road	0.0110	0.1113	0.1458	2.3000e-004			5.6800e-003	5.6800e-003		5.2200e-003	5.2200e-003	0.0000	20.0276	20.0276	6.4800e-003	0.0000	20.1895
Paving	5.1200e-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>0.0162</b>	<b>0.1113</b>	<b>0.1458</b>	<b>2.3000e-004</b>			<b>5.6800e-003</b>	<b>5.6800e-003</b>		<b>5.2200e-003</b>	<b>5.2200e-003</b>	<b>0.0000</b>	<b>20.0276</b>	<b>20.0276</b>	<b>6.4800e-003</b>	<b>0.0000</b>	<b>20.1895</b>

## Rocklin Rezone - Parcel 3 (Multi-Family Residential) - Placer County APCD Air District, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****3.4 Paving - 2022****Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Worker	4.2000e-004	2.9000e-004	3.6700e-003	1.0000e-005	1.1800e-003	1.0000e-005	1.1800e-003	3.1000e-004	1.0000e-005	3.2000e-004	0.0000	0.9549	0.9549	3.0000e-005	3.0000e-005	0.9639	
<b>Total</b>	<b>4.2000e-004</b>	<b>2.9000e-004</b>	<b>3.6700e-003</b>	<b>1.0000e-005</b>	<b>1.1800e-003</b>	<b>1.0000e-005</b>	<b>1.1800e-003</b>	<b>3.1000e-004</b>	<b>1.0000e-005</b>	<b>3.2000e-004</b>	<b>0.0000</b>	<b>0.9549</b>	<b>0.9549</b>	<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>0.9639</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	0.0110	0.1113	0.1458	2.3000e-004			5.6800e-003	5.6800e-003		5.2200e-003	5.2200e-003	0.0000	20.0275	20.0275	6.4800e-003	0.0000	20.1895
Paving	5.1200e-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>0.0162</b>	<b>0.1113</b>	<b>0.1458</b>	<b>2.3000e-004</b>			<b>5.6800e-003</b>	<b>5.6800e-003</b>		<b>5.2200e-003</b>	<b>5.2200e-003</b>	<b>0.0000</b>	<b>20.0275</b>	<b>20.0275</b>	<b>6.4800e-003</b>	<b>0.0000</b>	<b>20.1895</b>

## Rocklin Rezone - Parcel 3 (Multi-Family Residential) - Placer County APCD Air District, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****3.4 Paving - 2022****Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Worker	4.2000e-004	2.9000e-004	3.6700e-003	1.0000e-005	1.1800e-003	1.0000e-005	1.1800e-003	3.1000e-004	1.0000e-005	3.2000e-004	0.0000	0.9549	0.9549	3.0000e-005	3.0000e-005	0.9639	
<b>Total</b>	<b>4.2000e-004</b>	<b>2.9000e-004</b>	<b>3.6700e-003</b>	<b>1.0000e-005</b>	<b>1.1800e-003</b>	<b>1.0000e-005</b>	<b>1.1800e-003</b>	<b>3.1000e-004</b>	<b>1.0000e-005</b>	<b>3.2000e-004</b>	<b>0.0000</b>	<b>0.9549</b>	<b>0.9549</b>	<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>0.9639</b>	

**3.5 Building Construction - 2022****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0879	0.8042	0.8427	1.3900e-003		0.0417	0.0417		0.0392	0.0392	0.0000	119.3385	119.3385	0.0286	0.0000	120.0533
<b>Total</b>	<b>0.0879</b>	<b>0.8042</b>	<b>0.8427</b>	<b>1.3900e-003</b>		<b>0.0417</b>	<b>0.0417</b>		<b>0.0392</b>	<b>0.0392</b>	<b>0.0000</b>	<b>119.3385</b>	<b>119.3385</b>	<b>0.0286</b>	<b>0.0000</b>	<b>120.0533</b>

## Rocklin Rezone - Parcel 3 (Multi-Family Residential) - Placer County APCD Air District, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****3.5 Building Construction - 2022****Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Vendor	5.0900e-003	0.1468	0.0437	5.7000e-004	0.0178	1.3400e-003	0.0192	5.1600e-003	1.2900e-003	6.4500e-003	0.0000	54.8511	54.8511	2.4000e-004	8.3000e-003	57.3297	
Worker	0.0322	0.0226	0.2834	8.0000e-004	0.0910	4.8000e-004	0.0915	0.0242	4.4000e-004	0.0247	0.0000	73.7680	73.7680	2.3100e-003	2.1300e-003	74.4592	
<b>Total</b>	<b>0.0373</b>	<b>0.1694</b>	<b>0.3271</b>	<b>1.3700e-003</b>	<b>0.1088</b>	<b>1.8200e-003</b>	<b>0.1107</b>	<b>0.0294</b>	<b>1.7300e-003</b>	<b>0.0311</b>	<b>0.0000</b>	<b>128.6191</b>	<b>128.6191</b>	<b>2.5500e-003</b>	<b>0.0104</b>	<b>131.7890</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	0.0879	0.8042	0.8427	1.3900e-003		0.0417	0.0417		0.0392	0.0392	0.0000	119.3384	119.3384	0.0286	0.0000	120.0531
<b>Total</b>	<b>0.0879</b>	<b>0.8042</b>	<b>0.8427</b>	<b>1.3900e-003</b>		<b>0.0417</b>	<b>0.0417</b>		<b>0.0392</b>	<b>0.0392</b>	<b>0.0000</b>	<b>119.3384</b>	<b>119.3384</b>	<b>0.0286</b>	<b>0.0000</b>	<b>120.0531</b>

## Rocklin Rezone - Parcel 3 (Multi-Family Residential) - Placer County APCD Air District, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****3.5 Building Construction - 2022****Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Vendor	5.0900e-003	0.1468	0.0437	5.7000e-004	0.0178	1.3400e-003	0.0192	5.1600e-003	1.2900e-003	6.4500e-003	0.0000	54.8511	54.8511	2.4000e-004	8.3000e-003	57.3297	
Worker	0.0322	0.0226	0.2834	8.0000e-004	0.0910	4.8000e-004	0.0915	0.0242	4.4000e-004	0.0247	0.0000	73.7680	73.7680	2.3100e-003	2.1300e-003	74.4592	
<b>Total</b>	<b>0.0373</b>	<b>0.1694</b>	<b>0.3271</b>	<b>1.3700e-003</b>	<b>0.1088</b>	<b>1.8200e-003</b>	<b>0.1107</b>	<b>0.0294</b>	<b>1.7300e-003</b>	<b>0.0311</b>	<b>0.0000</b>	<b>128.6191</b>	<b>128.6191</b>	<b>2.5500e-003</b>	<b>0.0104</b>	<b>131.7890</b>	

**3.5 Building Construction - 2023****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	0.0999	0.9134	1.0315	1.7100e-003		0.0444	0.0444		0.0418	0.0418	0.0000	147.1960	147.1960	0.0350	0.0000	148.0714
<b>Total</b>	<b>0.0999</b>	<b>0.9134</b>	<b>1.0315</b>	<b>1.7100e-003</b>		<b>0.0444</b>	<b>0.0444</b>		<b>0.0418</b>	<b>0.0418</b>	<b>0.0000</b>	<b>147.1960</b>	<b>147.1960</b>	<b>0.0350</b>	<b>0.0000</b>	<b>148.0714</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****3.5 Building Construction - 2023****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	3.8700e-003	0.1554	0.0493	6.8000e-004	0.0220	9.3000e-004	0.0229	6.3600e-003	8.9000e-004	7.2600e-003	0.0000	65.3585	65.3585	1.9000e-004	9.8800e-003	68.3083	
Worker	0.0369	0.0247	0.3251	9.5000e-004	0.1122	5.6000e-004	0.1128	0.0299	5.2000e-004	0.0304	0.0000	88.5997	88.5997	2.5800e-003	2.4400e-003	89.3906	
<b>Total</b>	<b>0.0408</b>	<b>0.1802</b>	<b>0.3743</b>	<b>1.6300e-003</b>	<b>0.1342</b>	<b>1.4900e-003</b>	<b>0.1357</b>	<b>0.0362</b>	<b>1.4100e-003</b>	<b>0.0376</b>	<b>0.0000</b>	<b>153.9582</b>	<b>153.9582</b>	<b>2.7700e-003</b>	<b>0.0123</b>	<b>157.6988</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	0.0999	0.9134	1.0315	1.7100e-003		0.0444	0.0444		0.0418	0.0418	0.0000	147.1958	147.1958	0.0350	0.0000	148.0712
<b>Total</b>	<b>0.0999</b>	<b>0.9134</b>	<b>1.0315</b>	<b>1.7100e-003</b>		<b>0.0444</b>	<b>0.0444</b>		<b>0.0418</b>	<b>0.0418</b>	<b>0.0000</b>	<b>147.1958</b>	<b>147.1958</b>	<b>0.0350</b>	<b>0.0000</b>	<b>148.0712</b>

## Rocklin Rezone - Parcel 3 (Multi-Family Residential) - Placer County APCD Air District, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****3.5 Building Construction - 2023****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	3.8700e-003	0.1554	0.0493	6.8000e-004	0.0220	9.3000e-004	0.0229	6.3600e-003	8.9000e-004	7.2600e-003	0.0000	65.3585	65.3585	1.9000e-004	9.8800e-003	68.3083	
Worker	0.0369	0.0247	0.3251	9.5000e-004	0.1122	5.6000e-004	0.1128	0.0299	5.2000e-004	0.0304	0.0000	88.5997	88.5997	2.5800e-003	2.4400e-003	89.3906	
<b>Total</b>	<b>0.0408</b>	<b>0.1802</b>	<b>0.3743</b>	<b>1.6300e-003</b>	<b>0.1342</b>	<b>1.4900e-003</b>	<b>0.1357</b>	<b>0.0362</b>	<b>1.4100e-003</b>	<b>0.0376</b>	<b>0.0000</b>	<b>153.9582</b>	<b>153.9582</b>	<b>2.7700e-003</b>	<b>0.0123</b>	<b>157.6988</b>	

**3.6 Architectural Coating - 2022****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Archit. Coating	0.5490						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Off-Road	9.5100e-003	0.0655	0.0843	1.4000e-004			3.8000e-003	3.8000e-003		3.8000e-003	3.8000e-003	0.0000	11.8726	11.8726	7.7000e-004	0.0000	11.8920
<b>Total</b>	<b>0.5585</b>	<b>0.0655</b>	<b>0.0843</b>	<b>1.4000e-004</b>			<b>3.8000e-003</b>	<b>3.8000e-003</b>		<b>3.8000e-003</b>	<b>3.8000e-003</b>	<b>0.0000</b>	<b>11.8726</b>	<b>11.8726</b>	<b>7.7000e-004</b>	<b>0.0000</b>	<b>11.8920</b>

## Rocklin Rezone - Parcel 3 (Multi-Family Residential) - Placer County APCD Air District, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****3.6 Architectural Coating - 2022****Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Worker	5.8100e-003	4.0800e-003	0.0512	1.4000e-004	0.0164	9.0000e-005	0.0165	4.3700e-003	8.0000e-005	4.4500e-003	0.0000	13.3212	13.3212	4.2000e-004	3.8000e-004	13.4460	
<b>Total</b>	<b>5.8100e-003</b>	<b>4.0800e-003</b>	<b>0.0512</b>	<b>1.4000e-004</b>	<b>0.0164</b>	<b>9.0000e-005</b>	<b>0.0165</b>	<b>4.3700e-003</b>	<b>8.0000e-005</b>	<b>4.4500e-003</b>	<b>0.0000</b>	<b>13.3212</b>	<b>13.3212</b>	<b>4.2000e-004</b>	<b>3.8000e-004</b>	<b>13.4460</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	0.5490					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.5100e-003	0.0655	0.0843	1.4000e-004		3.8000e-003	3.8000e-003		3.8000e-003	3.8000e-003	0.0000	11.8726	11.8726	7.7000e-004	0.0000	11.8919
<b>Total</b>	<b>0.5585</b>	<b>0.0655</b>	<b>0.0843</b>	<b>1.4000e-004</b>		<b>3.8000e-003</b>	<b>3.8000e-003</b>		<b>3.8000e-003</b>	<b>3.8000e-003</b>	<b>0.0000</b>	<b>11.8726</b>	<b>11.8726</b>	<b>7.7000e-004</b>	<b>0.0000</b>	<b>11.8919</b>

## Rocklin Rezone - Parcel 3 (Multi-Family Residential) - Placer County APCD Air District, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****3.6 Architectural Coating - 2022****Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Worker	5.8100e-003	4.0800e-003	0.0512	1.4000e-004	0.0164	9.0000e-005	0.0165	4.3700e-003	8.0000e-005	4.4500e-003	0.0000	13.3212	13.3212	4.2000e-004	3.8000e-004	13.4460	
<b>Total</b>	<b>5.8100e-003</b>	<b>4.0800e-003</b>	<b>0.0512</b>	<b>1.4000e-004</b>	<b>0.0164</b>	<b>9.0000e-005</b>	<b>0.0165</b>	<b>4.3700e-003</b>	<b>8.0000e-005</b>	<b>4.4500e-003</b>	<b>0.0000</b>	<b>13.3212</b>	<b>13.3212</b>	<b>4.2000e-004</b>	<b>3.8000e-004</b>	<b>13.4460</b>	

**3.6 Architectural Coating - 2023****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	0.8087					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0131	0.0893	0.1241	2.0000e-004		4.8500e-003	4.8500e-003		4.8500e-003	4.8500e-003	0.0000	17.4898	17.4898	1.0500e-003	0.0000	17.5160
<b>Total</b>	<b>0.8218</b>	<b>0.0893</b>	<b>0.1241</b>	<b>2.0000e-004</b>		<b>4.8500e-003</b>	<b>4.8500e-003</b>		<b>4.8500e-003</b>	<b>4.8500e-003</b>	<b>0.0000</b>	<b>17.4898</b>	<b>17.4898</b>	<b>1.0500e-003</b>	<b>0.0000</b>	<b>17.5160</b>

## Rocklin Rezone - Parcel 3 (Multi-Family Residential) - Placer County APCD Air District, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****3.6 Architectural Coating - 2023****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	7.9600e-003	5.3400e-003	0.0701	2.1000e-004	0.0242	1.2000e-004	0.0243	6.4400e-003	1.1000e-004	6.5500e-003	0.0000	19.1152	19.1152	5.6000e-004	5.3000e-004	19.2858	
<b>Total</b>	<b>7.9600e-003</b>	<b>5.3400e-003</b>	<b>0.0701</b>	<b>2.1000e-004</b>	<b>0.0242</b>	<b>1.2000e-004</b>	<b>0.0243</b>	<b>6.4400e-003</b>	<b>1.1000e-004</b>	<b>6.5500e-003</b>	<b>0.0000</b>	<b>19.1152</b>	<b>19.1152</b>	<b>5.6000e-004</b>	<b>5.3000e-004</b>	<b>19.2858</b>	

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.8087						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0131	0.0893	0.1241	2.0000e-004		4.8500e-003	4.8500e-003		4.8500e-003	4.8500e-003	0.0000	17.4898	17.4898	1.0500e-003	0.0000	17.5159
<b>Total</b>	<b>0.8218</b>	<b>0.0893</b>	<b>0.1241</b>	<b>2.0000e-004</b>		<b>4.8500e-003</b>	<b>4.8500e-003</b>		<b>4.8500e-003</b>	<b>4.8500e-003</b>	<b>0.0000</b>	<b>17.4898</b>	<b>17.4898</b>	<b>1.0500e-003</b>	<b>0.0000</b>	<b>17.5159</b>

## Rocklin Rezone - Parcel 3 (Multi-Family Residential) - Placer County APCD Air District, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****3.6 Architectural Coating - 2023****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	7.9600e-003	5.3400e-003	0.0701	2.1000e-004	0.0242	1.2000e-004	0.0243	6.4400e-003	1.1000e-004	6.5500e-003	0.0000	19.1152	19.1152	5.6000e-004	5.3000e-004	19.2858	
<b>Total</b>	<b>7.9600e-003</b>	<b>5.3400e-003</b>	<b>0.0701</b>	<b>2.1000e-004</b>	<b>0.0242</b>	<b>1.2000e-004</b>	<b>0.0243</b>	<b>6.4400e-003</b>	<b>1.1000e-004</b>	<b>6.5500e-003</b>	<b>0.0000</b>	<b>19.1152</b>	<b>19.1152</b>	<b>5.6000e-004</b>	<b>5.3000e-004</b>	<b>19.2858</b>	

**4.0 Operational Detail - Mobile****4.1 Mitigation Measures Mobile**

## Rocklin Rezone - Parcel 3 (Multi-Family Residential) - Placer County APCD Air District, Annual

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Mitigated	0.8123	1.1842	7.4416	0.0144	1.3900	0.0132	1.4032	0.3724	0.0124	0.3848	0.0000	1,346.375	1,346.375	0.0902	0.0738	1,370.629	
Unmitigated	0.8123	1.1842	7.4416	0.0144	1.3900	0.0132	1.4032	0.3724	0.0124	0.3848	0.0000	1,346.375	1,346.375	0.0902	0.0738	1,370.629	

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated		Mitigated	
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT	Annual VMT	Annual VMT
Apartments Mid Rise	1,098.88	991.82	826.18	2,992,383	2,992,383	2,992,383	2,992,383
Health Club	493.95	313.05	400.95	785,780	785,780	785,780	785,780
Parking Lot	0.00	0.00	0.00				
Total	1,592.83	1,304.87	1,227.13	3,778,163	3,778,163	3,778,163	3,778,163

**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
Apartments Mid Rise	10.80	7.30	7.50	42.60	21.00	36.40	86	11	3
Health Club	9.50	7.30	7.30	16.90	64.10	19.00	52	39	9
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.463296	0.061073	0.209857	0.155594	0.036099	0.008566	0.013676	0.011873	0.000564	0.000399	0.032288	0.000990	0.005727
Health Club	0.463296	0.061073	0.209857	0.155594	0.036099	0.008566	0.013676	0.011873	0.000564	0.000399	0.032288	0.000990	0.005727

## Rocklin Rezone - Parcel 3 (Multi-Family Residential) - Placer County APCD Air District, Annual

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

Parking Lot	0.463296	0.061073	0.209857	0.155594	0.036099	0.008566	0.013676	0.011873	0.000564	0.000399	0.032288	0.000990	0.005727
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**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	89.8990	89.8990	0.0145	1.7600e-003	90.7880	
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	89.8990	89.8990	0.0145	1.7600e-003	90.7880	
NaturalGas Mitigated	0.0118	0.1012	0.0487	6.4000e-004		8.1200e-003	8.1200e-003	8.1200e-003	8.1200e-003	0.0000	116.2706	116.2706	2.2300e-003	2.1300e-003	116.9615	
NaturalGas Unmitigated	0.0118	0.1012	0.0487	6.4000e-004		8.1200e-003	8.1200e-003	8.1200e-003	8.1200e-003	0.0000	116.2706	116.2706	2.2300e-003	2.1300e-003	116.9615	

## Rocklin Rezone - Parcel 3 (Multi-Family Residential) - Placer County APCD Air District, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****5.2 Energy by Land Use - NaturalGas****Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	1.90208e+006	0.0103	0.0876	0.0373	5.6000e-004		7.0900e-003	7.0900e-003		7.0900e-003	7.0900e-003	0.0000	101.5022	101.5022	1.9500e-003	1.8600e-003	102.1053
Health Club	276750	1.4900e-003	0.0136	0.0114	8.0000e-005		1.0300e-003	1.0300e-003		1.0300e-003	1.0300e-003	0.0000	14.7684	14.7684	2.8000e-004	2.7000e-004	14.8562
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0118</b>	<b>0.1012</b>	<b>0.0487</b>	<b>6.4000e-004</b>		<b>8.1200e-003</b>	<b>8.1200e-003</b>		<b>8.1200e-003</b>	<b>8.1200e-003</b>	<b>0.0000</b>	<b>116.2706</b>	<b>116.2706</b>	<b>2.2300e-003</b>	<b>2.1300e-003</b>	<b>116.9615</b>

## Rocklin Rezone - Parcel 3 (Multi-Family Residential) - Placer County APCD Air District, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****5.2 Energy by Land Use - NaturalGas****Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	1.90208e+006	0.0103	0.0876	0.0373	5.6000e-004		7.0900e-003	7.0900e-003		7.0900e-003	7.0900e-003	0.0000	101.5022	101.5022	1.9500e-003	1.8600e-003	102.1053
Health Club	276750	1.4900e-003	0.0136	0.0114	8.0000e-005		1.0300e-003	1.0300e-003		1.0300e-003	1.0300e-003	0.0000	14.7684	14.7684	2.8000e-004	2.7000e-004	14.8562
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0118</b>	<b>0.1012</b>	<b>0.0487</b>	<b>6.4000e-004</b>		<b>8.1200e-003</b>	<b>8.1200e-003</b>		<b>8.1200e-003</b>	<b>8.1200e-003</b>	<b>0.0000</b>	<b>116.2706</b>	<b>116.2706</b>	<b>2.2300e-003</b>	<b>2.1300e-003</b>	<b>116.9615</b>

## Rocklin Rezone - Parcel 3 (Multi-Family Residential) - Placer County APCD Air District, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****5.3 Energy by Land Use - Electricity****Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	786531	72.7729	0.0118	1.4300e-003	73.4925
Health Club	124200	11.4915	1.8600e-003	2.3000e-004	11.6051
Parking Lot	60900	5.6347	9.1000e-004	1.1000e-004	5.6904
<b>Total</b>		<b>89.8990</b>	<b>0.0145</b>	<b>1.7700e-003</b>	<b>90.7879</b>

## Rocklin Rezone - Parcel 3 (Multi-Family Residential) - Placer County APCD Air District, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****5.3 Energy by Land Use - Electricity****Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	786531	72.7729	0.0118	1.4300e-003	73.4925
Health Club	124200	11.4915	1.8600e-003	2.3000e-004	11.6051
Parking Lot	60900	5.6347	9.1000e-004	1.1000e-004	5.6904
<b>Total</b>		<b>89.8990</b>	<b>0.0145</b>	<b>1.7700e-003</b>	<b>90.7879</b>

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

Use only Natural Gas Hearths

## Rocklin Rezone - Parcel 3 (Multi-Family Residential) - Placer County APCD Air District, Annual

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Mitigated	1.0546	0.1410	1.5570	8.7000e-004		0.0183	0.0183		0.0183	0.0183	0.0000	145.6528	145.6528	5.1200e-003	2.6300e-003	146.5632	
Unmitigated	13.7148	0.2649	17.1499	0.0284		2.2020	2.2020		2.2020	2.2020	208.6575	89.9660	298.6234	0.1949	0.0164	308.3877	

**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	0.1358					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Consumer Products	0.8587					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Hearth	12.6747	0.2475	15.6456	0.0284		2.1937	2.1937		2.1937	2.1937	208.6575	87.5079	296.1654	0.1926	0.0164	305.8702	
Landscaping	0.0456	0.0173	1.5043	8.0000e-005		8.3200e-003	8.3200e-003		8.3200e-003	8.3200e-003	0.0000	2.4581	2.4581	2.3800e-003	0.0000	2.5175	
<b>Total</b>	<b>13.7148</b>	<b>0.2649</b>	<b>17.1499</b>	<b>0.0284</b>		<b>2.2020</b>	<b>2.2020</b>		<b>2.2020</b>	<b>2.2020</b>	<b>208.6575</b>	<b>89.9660</b>	<b>298.6234</b>	<b>0.1949</b>	<b>0.0164</b>	<b>308.3877</b>	

## Rocklin Rezone - Parcel 3 (Multi-Family Residential) - Placer County APCD Air District, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****6.2 Area by SubCategory****Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.1358					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.8587					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0145	0.1237	0.0526	7.9000e-004		0.0100	0.0100		0.0100	0.0100	0.0000	143.1947	143.1947	2.7400e-003	2.6300e-003	144.0457
Landscaping	0.0456	0.0173	1.5043	8.0000e-005		8.3200e-003	8.3200e-003		8.3200e-003	8.3200e-003	0.0000	2.4581	2.4581	2.3800e-003	0.0000	2.5175
<b>Total</b>	<b>1.0546</b>	<b>0.1410</b>	<b>1.5570</b>	<b>8.7000e-004</b>		<b>0.0183</b>	<b>0.0183</b>		<b>0.0183</b>	<b>0.0183</b>	<b>0.0000</b>	<b>145.6528</b>	<b>145.6528</b>	<b>5.1200e-003</b>	<b>2.6300e-003</b>	<b>146.5632</b>

**7.0 Water Detail****7.1 Mitigation Measures Water**

Apply Water Conservation Strategy

## Rocklin Rezone - Parcel 3 (Multi-Family Residential) - Placer County APCD Air District, Annual

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

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	13.7805	0.4593	0.0110	28.5378
Unmitigated	14.3531	0.4594	0.0110	29.1160

**7.2 Water by Land Use****Unmitigated**

	Indoor/Out door Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	13.1611 / 8.29722	13.4514	0.4304	0.0103	27.2821
Health Club	0.887147 / 0.543735	0.9017	0.0290	6.9000e- 004	1.8339
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>14.3531</b>	<b>0.4594</b>	<b>0.0110</b>	<b>29.1160</b>

## Rocklin Rezone - Parcel 3 (Multi-Family Residential) - Placer County APCD Air District, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****7.2 Water by Land Use****Mitigated**

	Indoor/Out door Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	13.1611 / 6.63778	12.9140	0.4303	0.0103	26.7394
Health Club	0.887147 / 0.434988	0.8665	0.0290	6.9000e-004	1.7984
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>13.7805</b>	<b>0.4593</b>	<b>0.0110</b>	<b>28.5378</b>

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

## Rocklin Rezone - Parcel 3 (Multi-Family Residential) - Placer County APCD Air District, Annual

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

	Total CO2	CH4	N2O	CO2e
MT/yr				
Mitigated	36.2177	2.1404	0.0000	89.7277
Unmitigated	36.2177	2.1404	0.0000	89.7277

**8.2 Waste by Land Use****Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	92.92	18.8619	1.1147	0.0000	46.7296
Health Club	85.5	17.3557	1.0257	0.0000	42.9981
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>36.2177</b>	<b>2.1404</b>	<b>0.0000</b>	<b>89.7277</b>

## Rocklin Rezone - Parcel 3 (Multi-Family Residential) - Placer County APCD Air District, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****8.2 Waste by Land Use****Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	92.92	18.8619	1.1147	0.0000	46.7296
Health Club	85.5	17.3557	1.0257	0.0000	42.9981
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>36.2177</b>	<b>2.1404</b>	<b>0.0000</b>	<b>89.7277</b>

**9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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**10.0 Stationary Equipment****Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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Rocklin Rezone - Parcel 3 (Multi-Family Residential) - Placer County APCD Air District, Annual

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

## **11.0 Vegetation**

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## Rocklin Rezone - Parcel 3 (Multi-Family Residential) - Placer County APCD Air District, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****Rocklin Rezone - Parcel 3 (Multi-Family Residential)**

Placer County APCD Air District, Summer

**1.0 Project Characteristics****1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	435.00	Space	3.91	174,000.00	0
Health Club	15.00	1000sqft	0.34	15,000.00	0
Apartments Mid Rise	202.00	Dwelling Unit	2.49	202,000.00	578

**1.2 Other Project Characteristics**

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	74
Climate Zone	2			Operational Year	2023
Utility Company	Pacific Gas and Electric Company				
CO2 Intensity (lb/MWhr)	203.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

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

Project Characteristics -

Land Use - Lot acreage adjusted to be consistent with City's development assumptions.

Construction Phase - Architectural coating adjusted to start two weeks after building construction and last for the same duration.

Water Mitigation - Compliant with MWELO.

Area Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	230.00
tblLandUse	LotAcreage	5.32	2.49

## Rocklin Rezone - Parcel 3 (Multi-Family Residential) - Placer County APCD Air District, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****2.0 Emissions Summary****2.1 Overall Construction (Maximum Daily Emission)****Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	14.6700	33.1146	26.4191	0.0612	19.8049	1.6133	21.4182	10.1417	1.4843	11.6259	0.0000	6,066.6955	6,066.6955	1.1958	0.2279	6,151.8569
2023	14.4258	18.4314	25.6981	0.0602	2.5771	0.7959	3.3730	0.6917	0.7531	1.4448	0.0000	5,973.8896	5,973.8896	0.6776	0.2183	6,055.8690
Maximum	14.6700	33.1146	26.4191	0.0612	19.8049	1.6133	21.4182	10.1417	1.4843	11.6259	0.0000	6,066.6955	6,066.6955	1.1958	0.2279	6,151.8569

**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					
2022	14.6700	33.1146	26.4191	0.0612	19.8049	1.6133	21.4182	10.1417	1.4843	11.6259	0.0000	6,066.6955	6,066.6955	1.1958	0.2279	6,151.8569
2023	14.4258	18.4314	25.6981	0.0602	2.5771	0.7959	3.3730	0.6917	0.7531	1.4448	0.0000	5,973.8896	5,973.8896	0.6776	0.2183	6,055.8690
Maximum	14.6700	33.1146	26.4191	0.0612	19.8049	1.6133	21.4182	10.1417	1.4843	11.6259	0.0000	6,066.6955	6,066.6955	1.1958	0.2279	6,151.8569

## Rocklin Rezone - Parcel 3 (Multi-Family Residential) - Placer County APCD Air District, Summer

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

Rocklin Rezone - Parcel 3 (Multi-Family Residential) - Placer County APCD Air District, Summer

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

## 2.2 Overall Operational

## Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Area	315.0956	6.2297	398.3144	0.6922		53.5963	53.5963		53.5963	53.5963	5,609.889	2,382.811	7,992.701	5.2061	0.4413	8,254.349	
Energy	0.0644	0.5546	0.2668	3.5100e-003		0.0445	0.0445		0.0445	0.0445		702.2815	702.2815	0.0135	0.0129	706.4548	
Mobile	5.5779	6.3152	44.1695	0.0893	8.4567	0.0769	8.5336	2.2573	0.0722	2.3295		9,168.716	9,168.716	0.5347	0.4516	9,316.672	
Total	320.7379	13.0995	442.7507	0.7850	8.4567	53.7177	62.1744	2.2573	53.7130	55.9703	5,609.889	12,253.81	17,863.69	5.7543	0.9058	18,277.4759	

### 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	6.3087	3.2083	17.9982	0.0201		0.3363	0.3363		0.3363	0.3363	0.0000	3,879.988	3,879.988	0.1029	0.0706	3,903.594	
Energy	0.0644	0.5546	0.2668	3.5100e-003		0.0445	0.0445		0.0445	0.0445		702.2815	702.2815	0.0135	0.0129	706.4548	
Mobile	5.5779	6.3152	44.1695	0.0893	8.4567	0.0769	8.5336	2.2573	0.0722	2.3295		9,168.716	9,168.716	0.5347	0.4516	9,316.672	
Total	11.9510	10.0781	62.4345	0.1129	8.4567	0.4577	8.9143	2.2573	0.4529	2.7103	0.0000	13,750.98	13,750.98	0.6511	0.5351	13,926.702	

## Rocklin Rezone - Parcel 3 (Multi-Family Residential) - Placer County APCD Air District, Summer

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	96.27	23.06	85.90	85.62	0.00	99.15	85.66	0.00	99.16	95.16	100.00	-12.22	23.02	88.69	40.92	23.80

**3.0 Construction Detail****Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	6/1/2022	6/14/2022	5	10	
2	Grading	Grading	6/15/2022	7/12/2022	5	20	
3	Paving	Paving	7/13/2022	8/9/2022	5	20	
4	Building Construction	Building Construction	8/10/2022	6/27/2023	5	230	
5	Architectural Coating	Architectural Coating	8/24/2022	7/11/2023	5	230	

Acres of Grading (Site Preparation Phase): 15

Acres of Grading (Grading Phase): 20

Acres of Paving: 3.91

Residential Indoor: 409,050; Residential Outdoor: 136,350; Non-Residential Indoor: 22,500; Non-Residential Outdoor: 7,500; Striped Parking Area: 10,440 (Architectural Coating – sqft)

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37

## Rocklin Rezone - Parcel 3 (Multi-Family Residential) - Placer County APCD Air District, Summer

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

Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	225.00	53.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	45.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

## Rocklin Rezone - Parcel 3 (Multi-Family Residential) - Placer County APCD Air District, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****3.2 Site Preparation - 2022****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000	
Off-Road	3.1701	33.0835	19.6978	0.0380		1.6126	1.6126		1.4836	1.4836		3,686.061 9	3,686.061 9	1.1922		3,715.865 5	
<b>Total</b>	<b>3.1701</b>	<b>33.0835</b>	<b>19.6978</b>	<b>0.0380</b>	<b>19.6570</b>	<b>1.6126</b>	<b>21.2696</b>	<b>10.1025</b>	<b>1.4836</b>	<b>11.5860</b>		<b>3,686.061 9</b>	<b>3,686.061 9</b>	<b>1.1922</b>		<b>3,715.865 5</b>	

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	
Worker	0.0568	0.0311	0.4938	1.3500e-003	0.1479	7.5000e-004	0.1486	0.0392	6.9000e-004	0.0399			137.1631	137.1631	3.6500e-003	3.3600e-003	138.2566
<b>Total</b>	<b>0.0568</b>	<b>0.0311</b>	<b>0.4938</b>	<b>1.3500e-003</b>	<b>0.1479</b>	<b>7.5000e-004</b>	<b>0.1486</b>	<b>0.0392</b>	<b>6.9000e-004</b>	<b>0.0399</b>			<b>137.1631</b>	<b>137.1631</b>	<b>3.6500e-003</b>	<b>3.3600e-003</b>	<b>138.2566</b>

## Rocklin Rezone - Parcel 3 (Multi-Family Residential) - Placer County APCD Air District, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****3.2 Site Preparation - 2022****Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000	
Off-Road	3.1701	33.0835	19.6978	0.0380		1.6126	1.6126		1.4836	1.4836	0.0000	3,686.061 9	3,686.061 9	1.1922		3,715.865 5	
<b>Total</b>	<b>3.1701</b>	<b>33.0835</b>	<b>19.6978</b>	<b>0.0380</b>	<b>19.6570</b>	<b>1.6126</b>	<b>21.2696</b>	<b>10.1025</b>	<b>1.4836</b>	<b>11.5860</b>	<b>0.0000</b>	<b>3,686.061 9</b>	<b>3,686.061 9</b>	<b>1.1922</b>		<b>3,715.865 5</b>	

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	
Worker	0.0568	0.0311	0.4938	1.3500e-003	0.1479	7.5000e-004	0.1486	0.0392	6.9000e-004	0.0399			137.1631	137.1631	3.6500e-003	3.3600e-003	138.2566
<b>Total</b>	<b>0.0568</b>	<b>0.0311</b>	<b>0.4938</b>	<b>1.3500e-003</b>	<b>0.1479</b>	<b>7.5000e-004</b>	<b>0.1486</b>	<b>0.0392</b>	<b>6.9000e-004</b>	<b>0.0399</b>			<b>137.1631</b>	<b>137.1631</b>	<b>3.6500e-003</b>	<b>3.3600e-003</b>	<b>138.2566</b>

## Rocklin Rezone - Parcel 3 (Multi-Family Residential) - Placer County APCD Air District, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****3.3 Grading - 2022****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Fugitive Dust					7.0826	0.0000	7.0826	3.4247	0.0000	3.4247			0.0000			0.0000	
Off-Road	1.9486	20.8551	15.2727	0.0297		0.9409	0.9409		0.8656	0.8656		2,872.046 4	2,872.046 4	0.9289			2,895.268 4
Total	1.9486	20.8551	15.2727	0.0297	7.0826	0.9409	8.0234	3.4247	0.8656	4.2903		2,872.046 4	2,872.046 4	0.9289			2,895.268 4

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	
Worker	0.0474	0.0259	0.4115	1.1200e-003	0.1232	6.2000e-004	0.1238	0.0327	5.7000e-004	0.0333			114.3026	114.3026	3.0400e-003	2.8000e-003	115.2138
Total	0.0474	0.0259	0.4115	1.1200e-003	0.1232	6.2000e-004	0.1238	0.0327	5.7000e-004	0.0333			114.3026	114.3026	3.0400e-003	2.8000e-003	115.2138

## Rocklin Rezone - Parcel 3 (Multi-Family Residential) - Placer County APCD Air District, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****3.3 Grading - 2022****Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Fugitive Dust					7.0826	0.0000	7.0826	3.4247	0.0000	3.4247			0.0000			0.0000	
Off-Road	1.9486	20.8551	15.2727	0.0297		0.9409	0.9409		0.8656	0.8656	0.0000	2,872.046 4	2,872.046 4	0.9289		2,895.268 4	
Total	1.9486	20.8551	15.2727	0.0297	7.0826	0.9409	8.0234	3.4247	0.8656	4.2903	0.0000	2,872.046 4	2,872.046 4	0.9289		2,895.268 4	

**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	0.0000	
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Worker	0.0474	0.0259	0.4115	1.1200e-003	0.1232	6.2000e-004	0.1238	0.0327	5.7000e-004	0.0333		114.3026	114.3026	3.0400e-003	2.8000e-003	115.2138	
Total	0.0474	0.0259	0.4115	1.1200e-003	0.1232	6.2000e-004	0.1238	0.0327	5.7000e-004	0.0333		114.3026	114.3026	3.0400e-003	2.8000e-003	115.2138	

## Rocklin Rezone - Parcel 3 (Multi-Family Residential) - Placer County APCD Air District, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****3.4 Paving - 2022****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225	2,207.660 3	2,207.660 3	0.7140			2,225.510 4	
Paving	0.5122					0.0000	0.0000		0.0000	0.0000		0.0000				0.0000	
<b>Total</b>	<b>1.6150</b>	<b>11.1249</b>	<b>14.5805</b>	<b>0.0228</b>		<b>0.5679</b>	<b>0.5679</b>		<b>0.5225</b>	<b>0.5225</b>	<b>2,207.660 3</b>	<b>2,207.660 3</b>	<b>0.7140</b>			<b>2,225.510 4</b>	

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Worker	0.0474	0.0259	0.4115	1.1200e-003	0.1232	6.2000e-004	0.1238	0.0327	5.7000e-004	0.0333		114.3026	114.3026	3.0400e-003	2.8000e-003	115.2138	
<b>Total</b>	<b>0.0474</b>	<b>0.0259</b>	<b>0.4115</b>	<b>1.1200e-003</b>	<b>0.1232</b>	<b>6.2000e-004</b>	<b>0.1238</b>	<b>0.0327</b>	<b>5.7000e-004</b>	<b>0.0333</b>		<b>114.3026</b>	<b>114.3026</b>	<b>3.0400e-003</b>	<b>2.8000e-003</b>	<b>115.2138</b>	

## Rocklin Rezone - Parcel 3 (Multi-Family Residential) - Placer County APCD Air District, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****3.4 Paving - 2022****Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225	0.0000	2,207.660	2,207.660	0.7140		2,225.510	
Paving	0.5122					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000	
<b>Total</b>	<b>1.6150</b>	<b>11.1249</b>	<b>14.5805</b>	<b>0.0228</b>		<b>0.5679</b>	<b>0.5679</b>		<b>0.5225</b>	<b>0.5225</b>	<b>0.0000</b>	<b>2,207.660</b>	<b>2,207.660</b>	<b>0.7140</b>		<b>2,225.510</b>	
																<b>4</b>	

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Worker	0.0474	0.0259	0.4115	1.1200e-003	0.1232	6.2000e-004	0.1238	0.0327	5.7000e-004	0.0333		114.3026	114.3026	3.0400e-003	2.8000e-003	115.2138	
<b>Total</b>	<b>0.0474</b>	<b>0.0259</b>	<b>0.4115</b>	<b>1.1200e-003</b>	<b>0.1232</b>	<b>6.2000e-004</b>	<b>0.1238</b>	<b>0.0327</b>	<b>5.7000e-004</b>	<b>0.0333</b>		<b>114.3026</b>	<b>114.3026</b>	<b>3.0400e-003</b>	<b>2.8000e-003</b>	<b>115.2138</b>	

## Rocklin Rezone - Parcel 3 (Multi-Family Residential) - Placer County APCD Air District, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****3.5 Building Construction - 2022****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day															lb/day	
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.333 6	2,554.333 6	0.6120		2,569.632 2	
Total	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.333 6	2,554.333 6	0.6120		2,569.632 2	

**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	0.0000	
Vendor	0.1007	2.7134	0.8346	0.0111	0.3591	0.0261	0.3852	0.1034	0.0249	0.1283		1,173.467 9	1,173.467 9	5.1200e-003	0.1774	1,226.469 9	
Worker	0.7105	0.3883	6.1729	0.0169	1.8483	9.3400e-003	1.8577	0.4903	8.6000e-003	0.4989		1,714.538 3	1,714.538 3	0.0457	0.0420	1,728.207 3	
Total	0.8112	3.1016	7.0075	0.0280	2.2075	0.0354	2.2429	0.5937	0.0335	0.6272		2,888.006 2	2,888.006 2	0.0508	0.2195	2,954.677 1	

## Rocklin Rezone - Parcel 3 (Multi-Family Residential) - Placer County APCD Air District, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****3.5 Building Construction - 2022****Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day															lb/day	
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322	
Total	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322	

**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	0.0000	
Vendor	0.1007	2.7134	0.8346	0.0111	0.3591	0.0261	0.3852	0.1034	0.0249	0.1283		1,173.4679	1,173.4679	5.1200e-003	0.1774	1,226.4699	
Worker	0.7105	0.3883	6.1729	0.0169	1.8483	9.3400e-003	1.8577	0.4903	8.6000e-003	0.4989		1,714.5383	1,714.5383	0.0457	0.0420	1,728.2073	
Total	0.8112	3.1016	7.0075	0.0280	2.2075	0.0354	2.2429	0.5937	0.0335	0.6272		2,888.0062	2,888.0062	0.0508	0.2195	2,954.6771	

## Rocklin Rezone - Parcel 3 (Multi-Family Residential) - Placer County APCD Air District, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****3.5 Building Construction - 2023****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	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.209	2,555.209	0.6079		2,570.406	
Total	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.209	2,555.209	0.6079		2,570.406	
												9	9			1	

**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	0.0000	
Vendor	0.0631	2.3296	0.7636	0.0107	0.3591	0.0147	0.3738	0.1034	0.0141	0.1175		1,133.525	1,133.525	3.3200e-003	0.1713	1,184.660	
Worker	0.6603	0.3450	5.7329	0.0163	1.8483	8.8700e-003	1.8572	0.4903	8.1600e-003	0.4984		1,669.754	1,669.754	0.0413	0.0391	1,682.444	
Total	0.7234	2.6745	6.4964	0.0271	2.2075	0.0236	2.2310	0.5937	0.0222	0.6159		2,803.280	2,803.280	0.0446	0.2104	2,867.104	
												7	7			9	

## Rocklin Rezone - Parcel 3 (Multi-Family Residential) - Placer County APCD Air District, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****3.5 Building Construction - 2023****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	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	2,555.209 9	2,555.209 9	0.6079		2,570.406 1	
Total	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	2,555.209 9	2,555.209 9	0.6079		2,570.406 1	

**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	0.0000	
Vendor	0.0631	2.3296	0.7636	0.0107	0.3591	0.0147	0.3738	0.1034	0.0141	0.1175		1,133.525 7	1,133.525 7	3.3200e-003	0.1713	1,184.660 1	
Worker	0.6603	0.3450	5.7329	0.0163	1.8483	8.8700e-003	1.8572	0.4903	8.1600e-003	0.4984		1,669.754 9	1,669.754 9	0.0413	0.0391	1,682.444 8	
Total	0.7234	2.6745	6.4964	0.0271	2.2075	0.0236	2.2310	0.5937	0.0222	0.6159		2,803.280 7	2,803.280 7	0.0446	0.2104	2,867.104 9	

## Rocklin Rezone - Parcel 3 (Multi-Family Residential) - Placer County APCD Air District, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****3.6 Architectural Coating - 2022****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Archit. Coating	11.8060						0.0000	0.0000		0.0000			0.0000			0.0000	
Off-Road	0.2045	1.4085	1.8136	2.9700e-003			0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062
<b>Total</b>	<b>12.0105</b>	<b>1.4085</b>	<b>1.8136</b>	<b>2.9700e-003</b>			<b>0.0817</b>	<b>0.0817</b>		<b>0.0817</b>	<b>0.0817</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0183</b>		<b>281.9062</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	
Worker	0.1421	0.0777	1.2346	3.3700e-003	0.3697	1.8700e-003	0.3715	0.0981	1.7200e-003	0.0998			342.9077	342.9077	9.1300e-003	8.4100e-003	345.6415
<b>Total</b>	<b>0.1421</b>	<b>0.0777</b>	<b>1.2346</b>	<b>3.3700e-003</b>	<b>0.3697</b>	<b>1.8700e-003</b>	<b>0.3715</b>	<b>0.0981</b>	<b>1.7200e-003</b>	<b>0.0998</b>			<b>342.9077</b>	<b>342.9077</b>	<b>9.1300e-003</b>	<b>8.4100e-003</b>	<b>345.6415</b>

## Rocklin Rezone - Parcel 3 (Multi-Family Residential) - Placer County APCD Air District, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****3.6 Architectural Coating - 2022****Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Archit. Coating	11.8060						0.0000	0.0000		0.0000			0.0000			0.0000	
Off-Road	0.2045	1.4085	1.8136	2.9700e-003			0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062
<b>Total</b>	<b>12.0105</b>	<b>1.4085</b>	<b>1.8136</b>	<b>2.9700e-003</b>			<b>0.0817</b>	<b>0.0817</b>		<b>0.0817</b>	<b>0.0817</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0183</b>		<b>281.9062</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	
Worker	0.1421	0.0777	1.2346	3.3700e-003	0.3697	1.8700e-003	0.3715	0.0981	1.7200e-003	0.0998			342.9077	342.9077	9.1300e-003	8.4100e-003	345.6415
<b>Total</b>	<b>0.1421</b>	<b>0.0777</b>	<b>1.2346</b>	<b>3.3700e-003</b>	<b>0.3697</b>	<b>1.8700e-003</b>	<b>0.3715</b>	<b>0.0981</b>	<b>1.7200e-003</b>	<b>0.0998</b>			<b>342.9077</b>	<b>342.9077</b>	<b>9.1300e-003</b>	<b>8.4100e-003</b>	<b>345.6415</b>

## Rocklin Rezone - Parcel 3 (Multi-Family Residential) - Placer County APCD Air District, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****3.6 Architectural Coating - 2023****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	11.8060						0.0000	0.0000		0.0000			0.0000			0.0000	
Off-Road	0.1917	1.3030	1.8111	2.9700e-003			0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690
Total	11.9976	1.3030	1.8111	2.9700e-003			0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	
Worker	0.1321	0.0690	1.1466	3.2600e-003	0.3697	1.7700e-003	0.3714	0.0981	1.6300e-003	0.0997			333.9510	333.9510	8.2600e-003	7.8200e-003	336.4890
Total	0.1321	0.0690	1.1466	3.2600e-003	0.3697	1.7700e-003	0.3714	0.0981	1.6300e-003	0.0997			333.9510	333.9510	8.2600e-003	7.8200e-003	336.4890

## Rocklin Rezone - Parcel 3 (Multi-Family Residential) - Placer County APCD Air District, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****3.6 Architectural Coating - 2023****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	11.8060						0.0000	0.0000		0.0000			0.0000			0.0000	
Off-Road	0.1917	1.3030	1.8111	2.9700e-003			0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690
<b>Total</b>	<b>11.9976</b>	<b>1.3030</b>	<b>1.8111</b>	<b>2.9700e-003</b>			<b>0.0708</b>	<b>0.0708</b>		<b>0.0708</b>	<b>0.0708</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0168</b>		<b>281.8690</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	
Worker	0.1321	0.0690	1.1466	3.2600e-003	0.3697	1.7700e-003	0.3714	0.0981	1.6300e-003	0.0997			333.9510	333.9510	8.2600e-003	7.8200e-003	336.4890
<b>Total</b>	<b>0.1321</b>	<b>0.0690</b>	<b>1.1466</b>	<b>3.2600e-003</b>	<b>0.3697</b>	<b>1.7700e-003</b>	<b>0.3714</b>	<b>0.0981</b>	<b>1.6300e-003</b>	<b>0.0997</b>			<b>333.9510</b>	<b>333.9510</b>	<b>8.2600e-003</b>	<b>7.8200e-003</b>	<b>336.4890</b>

## Rocklin Rezone - Parcel 3 (Multi-Family Residential) - Placer County APCD Air District, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****4.0 Operational Detail - Mobile****4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day											lb/day					
Mitigated	5.5779	6.3152	44.1695	0.0893	8.4567	0.0769	8.5336	2.2573	0.0722	2.3295	9,168.716 9	9,168.716 9	0.5347	0.4516	9,316.671 2		
Unmitigated	5.5779	6.3152	44.1695	0.0893	8.4567	0.0769	8.5336	2.2573	0.0722	2.3295	9,168.716 9	9,168.716 9	0.5347	0.4516	9,316.671 2		

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated		Mitigated	
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT	Annual VMT	Annual VMT
Apartments Mid Rise	1,098.88	991.82	826.18	2,992,383	2,992,383	2,992,383	2,992,383
Health Club	493.95	313.05	400.95	785,780	785,780	785,780	785,780
Parking Lot	0.00	0.00	0.00				
Total	1,592.83	1,304.87	1,227.13	3,778,163	3,778,163	3,778,163	3,778,163

**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
Apartments Mid Rise	10.80	7.30	7.50	42.60	21.00	36.40	86	11	3
Health Club	9.50	7.30	7.30	16.90	64.10	19.00	52	39	9
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

## Rocklin Rezone - Parcel 3 (Multi-Family Residential) - Placer County APCD Air District, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.463296	0.061073	0.209857	0.155594	0.036099	0.008566	0.013676	0.011873	0.000564	0.000399	0.032288	0.000990	0.005727
Health Club	0.463296	0.061073	0.209857	0.155594	0.036099	0.008566	0.013676	0.011873	0.000564	0.000399	0.032288	0.000990	0.005727
Parking Lot	0.463296	0.061073	0.209857	0.155594	0.036099	0.008566	0.013676	0.011873	0.000564	0.000399	0.032288	0.000990	0.005727

**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	0.0644	0.5546	0.2668	3.5100e-003		0.0445	0.0445		0.0445	0.0445	702.2815	702.2815	0.0135	0.0129	706.4548	
NaturalGas Unmitigated	0.0644	0.5546	0.2668	3.5100e-003		0.0445	0.0445		0.0445	0.0445	702.2815	702.2815	0.0135	0.0129	706.4548	

## Rocklin Rezone - Parcel 3 (Multi-Family Residential) - Placer County APCD Air District, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****5.2 Energy by Land Use - NaturalGas****Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	5211.17	0.0562	0.4803	0.2044	3.0700e-003		0.0388	0.0388		0.0388	0.0388	613.0793	613.0793	0.0118	0.0112	616.7225	
Health Club	758.219	8.1800e-003	0.0743	0.0624	4.5000e-004		5.6500e-003	5.6500e-003		5.6500e-003	5.6500e-003	89.2023	89.2023	1.7100e-003	1.6400e-003	89.7323	
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
<b>Total</b>		<b>0.0644</b>	<b>0.5546</b>	<b>0.2668</b>	<b>3.5200e-003</b>		<b>0.0445</b>	<b>0.0445</b>		<b>0.0445</b>	<b>0.0445</b>	<b>702.2815</b>	<b>702.2815</b>	<b>0.0135</b>	<b>0.0129</b>	<b>706.4548</b>	

## Rocklin Rezone - Parcel 3 (Multi-Family Residential) - Placer County APCD Air District, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****5.2 Energy by Land Use - NaturalGas****Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	5.21117	0.0562	0.4803	0.2044	3.0700e-003		0.0388	0.0388		0.0388	0.0388	613.0793	613.0793	0.0118	0.0112	616.7225	
Health Club	0.758219	8.1800e-003	0.0743	0.0624	4.5000e-004		5.6500e-003	5.6500e-003		5.6500e-003	5.6500e-003	89.2023	89.2023	1.7100e-003	1.6400e-003	89.7323	
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
<b>Total</b>		<b>0.0644</b>	<b>0.5546</b>	<b>0.2668</b>	<b>3.5200e-003</b>		<b>0.0445</b>	<b>0.0445</b>		<b>0.0445</b>	<b>0.0445</b>	<b>702.2815</b>	<b>702.2815</b>	<b>0.0135</b>	<b>0.0129</b>	<b>706.4548</b>	

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

Use only Natural Gas Hearths

## Rocklin Rezone - Parcel 3 (Multi-Family Residential) - Placer County APCD Air District, Summer

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Mitigated	6.3087	3.2083	17.9982	0.0201		0.3363	0.3363		0.3363	0.3363	0.0000	3,879.988	3,879.988	0.1029	0.0706	3,903.594	
Unmitigated	315.0956	6.2297	398.3144	0.6922		53.5963	53.5963		53.5963	53.5963	5,609.889	2,382.811	7,992.701	5.2061	0.4413	8,254.349	

**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	0.7439					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000	
Consumer Products	4.7054					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000	
Hearth	309.1398	6.0371	381.5995	0.6914		53.5039	53.5039		53.5039	53.5039	5,609.889	2,352.705	7,962.595	5.1770	0.4413	8,223.516	
Landscaping	0.5064	0.1926	16.7149	8.8000e-004		0.0924	0.0924		0.0924	0.0924			30.1061	30.1061	0.0291		30.8339
<b>Total</b>	<b>315.0956</b>	<b>6.2297</b>	<b>398.3144</b>	<b>0.6922</b>		<b>53.5963</b>	<b>53.5963</b>		<b>53.5963</b>	<b>53.5963</b>	<b>5,609.889</b>	<b>2,382.811</b>	<b>7,992.701</b>	<b>5.2061</b>	<b>0.4413</b>	<b>8,254.349</b>	

## Rocklin Rezone - Parcel 3 (Multi-Family Residential) - Placer County APCD Air District, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****6.2 Area by SubCategory****Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
SubCategory	lb/day										lb/day						
Architectural Coating	0.7439						0.0000	0.0000		0.0000			0.0000			0.0000	
Consumer Products	4.7054						0.0000	0.0000		0.0000			0.0000			0.0000	
Hearth	0.3529	3.0157	1.2833	0.0193			0.2438	0.2438		0.2438	0.0000	3,849.882 4	3,849.882 4	0.0738	0.0706	3,872.760 3	
Landscaping	0.5064	0.1926	16.7149	8.8000e-004			0.0924	0.0924		0.0924	0.0924		30.1061	30.1061	0.0291		30.8339
<b>Total</b>	<b>6.3087</b>	<b>3.2083</b>	<b>17.9982</b>	<b>0.0201</b>			<b>0.3363</b>	<b>0.3363</b>		<b>0.3363</b>	<b>0.0000</b>	<b>3,879.988 4</b>	<b>3,879.988 4</b>	<b>0.1029</b>	<b>0.0706</b>	<b>3,903.594 2</b>	

**7.0 Water Detail****7.1 Mitigation Measures Water**

Apply Water Conservation Strategy

## Rocklin Rezone - Parcel 3 (Multi-Family Residential) - Placer County APCD Air District, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****8.0 Waste Detail**

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**8.1 Mitigation Measures Waste****9.0 Operational Offroad**

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

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**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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**11.0 Vegetation**

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## Rocklin Rezone - Parcel 3 (Multi-Family Residential) - Placer County APCD Air District, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****Rocklin Rezone - Parcel 3 (Multi-Family Residential)**

Placer County APCD Air District, Winter

**1.0 Project Characteristics****1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	435.00	Space	3.91	174,000.00	0
Health Club	15.00	1000sqft	0.34	15,000.00	0
Apartments Mid Rise	202.00	Dwelling Unit	2.49	202,000.00	578

**1.2 Other Project Characteristics**

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	74
Climate Zone	2			Operational Year	2023
Utility Company	Pacific Gas and Electric Company				
CO2 Intensity (lb/MWhr)	203.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

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

Project Characteristics -

Land Use - Lot acreage adjusted to be consistent with City's development assumptions.

Construction Phase - Architectural coating adjusted to start two weeks after building construction and last for the same duration.

Water Mitigation - Compliant with MWELO.

Area Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	230.00
tblLandUse	LotAcreage	5.32	2.49

## Rocklin Rezone - Parcel 3 (Multi-Family Residential) - Placer County APCD Air District, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****2.0 Emissions Summary****2.1 Overall Construction (Maximum Daily Emission)****Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	14.6058	33.1223	25.7783	0.0593	19.8049	1.6133	21.4182	10.1417	1.4843	11.6259	0.0000	5,864.415 3	5,864.415 3	1.1964	0.2362	5,952.294 9
2023	14.3662	18.7088	25.1199	0.0583	2.5771	0.7959	3.3731	0.6917	0.7532	1.4449	0.0000	5,778.536 3	5,778.536 3	0.6861	0.2262	5,863.087 2
Maximum	14.6058	33.1223	25.7783	0.0593	19.8049	1.6133	21.4182	10.1417	1.4843	11.6259	0.0000	5,864.415 3	5,864.415 3	1.1964	0.2362	5,952.294 9

**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					
2022	14.6058	33.1223	25.7783	0.0593	19.8049	1.6133	21.4182	10.1417	1.4843	11.6259	0.0000	5,864.415 3	5,864.415 3	1.1964	0.2362	5,952.294 9
2023	14.3662	18.7088	25.1199	0.0583	2.5771	0.7959	3.3731	0.6917	0.7532	1.4449	0.0000	5,778.536 3	5,778.536 3	0.6861	0.2262	5,863.087 2
Maximum	14.6058	33.1223	25.7783	0.0593	19.8049	1.6133	21.4182	10.1417	1.4843	11.6259	0.0000	5,864.415 3	5,864.415 3	1.1964	0.2362	5,952.294 9

## Rocklin Rezone - Parcel 3 (Multi-Family Residential) - Placer County APCD Air District, Winter

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

Rocklin Rezone - Parcel 3 (Multi-Family Residential) - Placer County APCD Air District, Winter

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

## 2.2 Overall Operational

## Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Area	315.0956	6.2297	398.3144	0.6922		53.5963	53.5963		53.5963	53.5963	5,609.889	2,382.811	7,992.701	5.2061	0.4413	8,254.349	
Energy	0.0644	0.5546	0.2668	3.5100e-003		0.0445	0.0445		0.0445	0.0445		702.2815	702.2815	0.0135	0.0129	706.4548	
Mobile	4.6560	7.2712	46.2729	0.0829	8.4567	0.0770	8.5337	2.2573	0.0723	2.3296		8,520.271	8,520.271	0.6239	0.4931	8,682.820	
Total	319.8159	14.0555	444.8541	0.7787	8.4567	53.7178	62.1744	2.2573	53.7131	55.9704	5,609.889	11,605.36	17,215.25	5.8434	0.9473	17,643.6253	

### **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	6.3087	3.2083	17.9982	0.0201		0.3363	0.3363		0.3363	0.3363	0.0000	3,879.9884	3,879.9884	0.1029	0.0706	3,903.5942	
Energy	0.0644	0.5546	0.2668	3.5100e-003		0.0445	0.0445		0.0445	0.0445		702.2815	702.2815	0.0135	0.0129	706.4548	
Mobile	4.6560	7.2712	46.2729	0.0829	8.4567	0.0770	8.5337	2.2573	0.0723	2.3296		8,520.2710	8,520.2710	0.6239	0.4931	8,682.8206	
Total	11.0291	11.0341	64.5379	0.1066	8.4567	0.4577	8.9144	2.2573	0.4530	2.7103	0.0000	13,102.5410	13,102.5410	0.7402	0.5766	13,292.8697	

## Rocklin Rezone - Parcel 3 (Multi-Family Residential) - Placer County APCD Air District, Winter

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	96.55	21.50	85.49	86.31	0.00	99.15	85.66	0.00	99.16	95.16	100.00	-12.90	23.89	87.33	39.13	24.66

**3.0 Construction Detail****Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	6/1/2022	6/14/2022	5	10	
2	Grading	Grading	6/15/2022	7/12/2022	5	20	
3	Paving	Paving	7/13/2022	8/9/2022	5	20	
4	Building Construction	Building Construction	8/10/2022	6/27/2023	5	230	
5	Architectural Coating	Architectural Coating	8/24/2022	7/11/2023	5	230	

Acres of Grading (Site Preparation Phase): 15

Acres of Grading (Grading Phase): 20

Acres of Paving: 3.91

Residential Indoor: 409,050; Residential Outdoor: 136,350; Non-Residential Indoor: 22,500; Non-Residential Outdoor: 7,500; Striped Parking Area: 10,440 (Architectural Coating – sqft)

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37

## Rocklin Rezone - Parcel 3 (Multi-Family Residential) - Placer County APCD Air District, Winter

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

Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	225.00	53.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	45.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

## Rocklin Rezone - Parcel 3 (Multi-Family Residential) - Placer County APCD Air District, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****3.2 Site Preparation - 2022****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000	
Off-Road	3.1701	33.0835	19.6978	0.0380		1.6126	1.6126		1.4836	1.4836		3,686.061 9	3,686.061 9	1.1922		3,715.865 5	
<b>Total</b>	<b>3.1701</b>	<b>33.0835</b>	<b>19.6978</b>	<b>0.0380</b>	<b>19.6570</b>	<b>1.6126</b>	<b>21.2696</b>	<b>10.1025</b>	<b>1.4836</b>	<b>11.5860</b>		<b>3,686.061 9</b>	<b>3,686.061 9</b>	<b>1.1922</b>		<b>3,715.865 5</b>	

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	
Worker	0.0528	0.0388	0.4489	1.2100e-003	0.1479	7.5000e-004	0.1486	0.0392	6.9000e-004	0.0399			123.5870	123.5870	4.2800e-003	3.9000e-003	124.8549
<b>Total</b>	<b>0.0528</b>	<b>0.0388</b>	<b>0.4489</b>	<b>1.2100e-003</b>	<b>0.1479</b>	<b>7.5000e-004</b>	<b>0.1486</b>	<b>0.0392</b>	<b>6.9000e-004</b>	<b>0.0399</b>			<b>123.5870</b>	<b>123.5870</b>	<b>4.2800e-003</b>	<b>3.9000e-003</b>	<b>124.8549</b>

## Rocklin Rezone - Parcel 3 (Multi-Family Residential) - Placer County APCD Air District, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****3.2 Site Preparation - 2022****Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000	
Off-Road	3.1701	33.0835	19.6978	0.0380		1.6126	1.6126		1.4836	1.4836	0.0000	3,686.061 9	3,686.061 9	1.1922		3,715.865 5	
<b>Total</b>	<b>3.1701</b>	<b>33.0835</b>	<b>19.6978</b>	<b>0.0380</b>	<b>19.6570</b>	<b>1.6126</b>	<b>21.2696</b>	<b>10.1025</b>	<b>1.4836</b>	<b>11.5860</b>	<b>0.0000</b>	<b>3,686.061 9</b>	<b>3,686.061 9</b>	<b>1.1922</b>		<b>3,715.865 5</b>	

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	
Worker	0.0528	0.0388	0.4489	1.2100e-003	0.1479	7.5000e-004	0.1486	0.0392	6.9000e-004	0.0399			123.5870	123.5870	4.2800e-003	3.9000e-003	124.8549
<b>Total</b>	<b>0.0528</b>	<b>0.0388</b>	<b>0.4489</b>	<b>1.2100e-003</b>	<b>0.1479</b>	<b>7.5000e-004</b>	<b>0.1486</b>	<b>0.0392</b>	<b>6.9000e-004</b>	<b>0.0399</b>			<b>123.5870</b>	<b>123.5870</b>	<b>4.2800e-003</b>	<b>3.9000e-003</b>	<b>124.8549</b>

## Rocklin Rezone - Parcel 3 (Multi-Family Residential) - Placer County APCD Air District, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****3.3 Grading - 2022****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Fugitive Dust					7.0826	0.0000	7.0826	3.4247	0.0000	3.4247			0.0000			0.0000	
Off-Road	1.9486	20.8551	15.2727	0.0297		0.9409	0.9409		0.8656	0.8656		2,872.046 4	2,872.046 4	0.9289		2,895.268 4	
Total	1.9486	20.8551	15.2727	0.0297	7.0826	0.9409	8.0234	3.4247	0.8656	4.2903		2,872.046 4	2,872.046 4	0.9289		2,895.268 4	

**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	0.0440	0.0323	0.3741	1.0100e-003	0.1232	6.2000e-004	0.1238	0.0327	5.7000e-004	0.0333		102.9891	102.9891	3.5700e-003	3.2500e-003	104.0458	
Total	0.0440	0.0323	0.3741	1.0100e-003	0.1232	6.2000e-004	0.1238	0.0327	5.7000e-004	0.0333		102.9891	102.9891	3.5700e-003	3.2500e-003	104.0458	

## Rocklin Rezone - Parcel 3 (Multi-Family Residential) - Placer County APCD Air District, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****3.3 Grading - 2022****Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Fugitive Dust					7.0826	0.0000	7.0826	3.4247	0.0000	3.4247			0.0000			0.0000	
Off-Road	1.9486	20.8551	15.2727	0.0297		0.9409	0.9409		0.8656	0.8656	0.0000	2,872.046 4	2,872.046 4	0.9289		2,895.268 4	
Total	1.9486	20.8551	15.2727	0.0297	7.0826	0.9409	8.0234	3.4247	0.8656	4.2903	0.0000	2,872.046 4	2,872.046 4	0.9289		2,895.268 4	

**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	0.0000	
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Worker	0.0440	0.0323	0.3741	1.0100e-003	0.1232	6.2000e-004	0.1238	0.0327	5.7000e-004	0.0333		102.9891	102.9891	3.5700e-003	3.2500e-003	104.0458	
Total	0.0440	0.0323	0.3741	1.0100e-003	0.1232	6.2000e-004	0.1238	0.0327	5.7000e-004	0.0333		102.9891	102.9891	3.5700e-003	3.2500e-003	104.0458	

## Rocklin Rezone - Parcel 3 (Multi-Family Residential) - Placer County APCD Air District, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****3.4 Paving - 2022****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225	2,207.660 3	2,207.660 3	0.7140		2,225.510 4	
Paving	0.5122					0.0000	0.0000		0.0000	0.0000		0.0000			0.0000	
<b>Total</b>	<b>1.6150</b>	<b>11.1249</b>	<b>14.5805</b>	<b>0.0228</b>		<b>0.5679</b>	<b>0.5679</b>		<b>0.5225</b>	<b>0.5225</b>	<b>2,207.660 3</b>	<b>2,207.660 3</b>	<b>0.7140</b>		<b>2,225.510 4</b>	

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Worker	0.0440	0.0323	0.3741	1.0100e-003	0.1232	6.2000e-004	0.1238	0.0327	5.7000e-004	0.0333	102.9891	102.9891	3.5700e-003	3.2500e-003	104.0458	
<b>Total</b>	<b>0.0440</b>	<b>0.0323</b>	<b>0.3741</b>	<b>1.0100e-003</b>	<b>0.1232</b>	<b>6.2000e-004</b>	<b>0.1238</b>	<b>0.0327</b>	<b>5.7000e-004</b>	<b>0.0333</b>	<b>102.9891</b>	<b>102.9891</b>	<b>3.5700e-003</b>	<b>3.2500e-003</b>	<b>104.0458</b>	

## Rocklin Rezone - Parcel 3 (Multi-Family Residential) - Placer County APCD Air District, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****3.4 Paving - 2022****Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225	0.0000	2,207.660	2,207.660	0.7140		2,225.510	
Paving	0.5122					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000	
<b>Total</b>	<b>1.6150</b>	<b>11.1249</b>	<b>14.5805</b>	<b>0.0228</b>		<b>0.5679</b>	<b>0.5679</b>		<b>0.5225</b>	<b>0.5225</b>	<b>0.0000</b>	<b>2,207.660</b>	<b>2,207.660</b>	<b>0.7140</b>		<b>2,225.510</b>	
																<b>4</b>	

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Worker	0.0440	0.0323	0.3741	1.0100e-003	0.1232	6.2000e-004	0.1238	0.0327	5.7000e-004	0.0333		102.9891	102.9891	3.5700e-003	3.2500e-003	104.0458	
<b>Total</b>	<b>0.0440</b>	<b>0.0323</b>	<b>0.3741</b>	<b>1.0100e-003</b>	<b>0.1232</b>	<b>6.2000e-004</b>	<b>0.1238</b>	<b>0.0327</b>	<b>5.7000e-004</b>	<b>0.0333</b>		<b>102.9891</b>	<b>102.9891</b>	<b>3.5700e-003</b>	<b>3.2500e-003</b>	<b>104.0458</b>	

## Rocklin Rezone - Parcel 3 (Multi-Family Residential) - Placer County APCD Air District, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****3.5 Building Construction - 2022****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day															lb/day	
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.333 6	2,554.333 6	0.6120		2,569.632 2	
Total	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.333 6	2,554.333 6	0.6120		2,569.632 2	

**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	0.0000	
Vendor	0.0969	2.9085	0.8678	0.0111	0.3591	0.0262	0.3853	0.1034	0.0250	0.1284		1,174.829 1	1,174.829 1	4.9400e-003	0.1778	1,227.932 6	
Worker	0.6601	0.4847	5.6113	0.0152	1.8483	9.3400e-003	1.8577	0.4903	8.6000e-003	0.4989		1,544.837 1	1,544.837 1	0.0535	0.0487	1,560.686 6	
Total	0.7570	3.3932	6.4791	0.0263	2.2075	0.0355	2.2430	0.5937	0.0336	0.6273		2,719.666 2	2,719.666 2	0.0584	0.2265	2,788.619 2	

## Rocklin Rezone - Parcel 3 (Multi-Family Residential) - Placer County APCD Air District, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****3.5 Building Construction - 2022****Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322	
<b>Total</b>	<b>1.7062</b>	<b>15.6156</b>	<b>16.3634</b>	<b>0.0269</b>		<b>0.8090</b>	<b>0.8090</b>		<b>0.7612</b>	<b>0.7612</b>	<b>0.0000</b>	<b>2,554.3336</b>	<b>2,554.3336</b>	<b>0.6120</b>		<b>2,569.6322</b>	

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Vendor	0.0969	2.9085	0.8678	0.0111	0.3591	0.0262	0.3853	0.1034	0.0250	0.1284	1,174.8291	1,174.8291	4.9400e-003	0.1778	1,227.9326		
Worker	0.6601	0.4847	5.6113	0.0152	1.8483	9.3400e-003	1.8577	0.4903	8.6000e-003	0.4989	1,544.8371	1,544.8371	0.0535	0.0487	1,560.6866		
<b>Total</b>	<b>0.7570</b>	<b>3.3932</b>	<b>6.4791</b>	<b>0.0263</b>	<b>2.2075</b>	<b>0.0355</b>	<b>2.2430</b>	<b>0.5937</b>	<b>0.0336</b>	<b>0.6273</b>	<b>2,719.6662</b>	<b>2,719.6662</b>	<b>0.0584</b>	<b>0.2265</b>	<b>2,788.6192</b>		

## Rocklin Rezone - Parcel 3 (Multi-Family Residential) - Placer County APCD Air District, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****3.5 Building Construction - 2023****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	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.209	2,555.209	0.6079		2,570.406	
Total	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.209	2,555.209	0.6079		2,570.406	
												9	9			1	

**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	0.0000	
Vendor	0.0586	2.5045	0.7915	0.0108	0.3591	0.0148	0.3739	0.1034	0.0141	0.1175		1,136.024	1,136.024	3.1200e-003	0.1718	1,187.308	
Worker	0.6143	0.4303	5.2278	0.0147	1.8483	8.8700e-003	1.8572	0.4903	8.1600e-003	0.4984		1,504.878	1,504.878	0.0486	0.0453	1,519.586	
Total	0.6729	2.9348	6.0193	0.0255	2.2075	0.0236	2.2311	0.5937	0.0223	0.6159		2,640.902	2,640.902	0.0517	0.2171	2,706.894	
												7	7			8	

## Rocklin Rezone - Parcel 3 (Multi-Family Residential) - Placer County APCD Air District, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****3.5 Building Construction - 2023****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	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	2,555.209 9	2,555.209 9	0.6079		2,570.406 1	
<b>Total</b>	<b>1.5728</b>	<b>14.3849</b>	<b>16.2440</b>	<b>0.0269</b>		<b>0.6997</b>	<b>0.6997</b>		<b>0.6584</b>	<b>0.6584</b>	<b>0.0000</b>	<b>2,555.209 9</b>	<b>2,555.209 9</b>	<b>0.6079</b>		<b>2,570.406 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	0.0000	
Vendor	0.0586	2.5045	0.7915	0.0108	0.3591	0.0148	0.3739	0.1034	0.0141	0.1175		1,136.024 7	1,136.024 7	3.1200e-003	0.1718	1,187.308 5	
Worker	0.6143	0.4303	5.2278	0.0147	1.8483	8.8700e-003	1.8572	0.4903	8.1600e-003	0.4984		1,504.878 0	1,504.878 0	0.0486	0.0453	1,519.586 4	
<b>Total</b>	<b>0.6729</b>	<b>2.9348</b>	<b>6.0193</b>	<b>0.0255</b>	<b>2.2075</b>	<b>0.0236</b>	<b>2.2311</b>	<b>0.5937</b>	<b>0.0223</b>	<b>0.6159</b>		<b>2,640.902 7</b>	<b>2,640.902 7</b>	<b>0.0517</b>	<b>0.2171</b>	<b>2,706.894 8</b>	

## Rocklin Rezone - Parcel 3 (Multi-Family Residential) - Placer County APCD Air District, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****3.6 Architectural Coating - 2022****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Archit. Coating	11.8060						0.0000	0.0000		0.0000			0.0000			0.0000	
Off-Road	0.2045	1.4085	1.8136	2.9700e-003			0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062
<b>Total</b>	<b>12.0105</b>	<b>1.4085</b>	<b>1.8136</b>	<b>2.9700e-003</b>			<b>0.0817</b>	<b>0.0817</b>		<b>0.0817</b>	<b>0.0817</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0183</b>		<b>281.9062</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	
Worker	0.1320	0.0969	1.1223	3.0400e-003	0.3697	1.8700e-003	0.3715	0.0981	1.7200e-003	0.0998			308.9674	308.9674	0.0107	9.7400e-003	312.1373
<b>Total</b>	<b>0.1320</b>	<b>0.0969</b>	<b>1.1223</b>	<b>3.0400e-003</b>	<b>0.3697</b>	<b>1.8700e-003</b>	<b>0.3715</b>	<b>0.0981</b>	<b>1.7200e-003</b>	<b>0.0998</b>			<b>308.9674</b>	<b>308.9674</b>	<b>0.0107</b>	<b>9.7400e-003</b>	<b>312.1373</b>

## Rocklin Rezone - Parcel 3 (Multi-Family Residential) - Placer County APCD Air District, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****3.6 Architectural Coating - 2022****Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Archit. Coating	11.8060						0.0000	0.0000		0.0000			0.0000			0.0000	
Off-Road	0.2045	1.4085	1.8136	2.9700e-003			0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062
<b>Total</b>	<b>12.0105</b>	<b>1.4085</b>	<b>1.8136</b>	<b>2.9700e-003</b>			<b>0.0817</b>	<b>0.0817</b>		<b>0.0817</b>	<b>0.0817</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0183</b>		<b>281.9062</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	
Worker	0.1320	0.0969	1.1223	3.0400e-003	0.3697	1.8700e-003	0.3715	0.0981	1.7200e-003	0.0998			308.9674	308.9674	0.0107	9.7400e-003	312.1373
<b>Total</b>	<b>0.1320</b>	<b>0.0969</b>	<b>1.1223</b>	<b>3.0400e-003</b>	<b>0.3697</b>	<b>1.8700e-003</b>	<b>0.3715</b>	<b>0.0981</b>	<b>1.7200e-003</b>	<b>0.0998</b>			<b>308.9674</b>	<b>308.9674</b>	<b>0.0107</b>	<b>9.7400e-003</b>	<b>312.1373</b>

## Rocklin Rezone - Parcel 3 (Multi-Family Residential) - Placer County APCD Air District, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****3.6 Architectural Coating - 2023****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	11.8060						0.0000	0.0000		0.0000			0.0000			0.0000	
Off-Road	0.1917	1.3030	1.8111	2.9700e-003			0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690
<b>Total</b>	<b>11.9976</b>	<b>1.3030</b>	<b>1.8111</b>	<b>2.9700e-003</b>			<b>0.0708</b>	<b>0.0708</b>		<b>0.0708</b>	<b>0.0708</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0168</b>		<b>281.8690</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	
Worker	0.1229	0.0861	1.0456	2.9400e-003	0.3697	1.7700e-003	0.3714	0.0981	1.6300e-003	0.0997			300.9756	300.9756	9.7200e-003	9.0600e-003	303.9173
<b>Total</b>	<b>0.1229</b>	<b>0.0861</b>	<b>1.0456</b>	<b>2.9400e-003</b>	<b>0.3697</b>	<b>1.7700e-003</b>	<b>0.3714</b>	<b>0.0981</b>	<b>1.6300e-003</b>	<b>0.0997</b>			<b>300.9756</b>	<b>300.9756</b>	<b>9.7200e-003</b>	<b>9.0600e-003</b>	<b>303.9173</b>

## Rocklin Rezone - Parcel 3 (Multi-Family Residential) - Placer County APCD Air District, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****3.6 Architectural Coating - 2023****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	11.8060						0.0000	0.0000		0.0000			0.0000			0.0000	
Off-Road	0.1917	1.3030	1.8111	2.9700e-003			0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690
<b>Total</b>	<b>11.9976</b>	<b>1.3030</b>	<b>1.8111</b>	<b>2.9700e-003</b>			<b>0.0708</b>	<b>0.0708</b>		<b>0.0708</b>	<b>0.0708</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0168</b>		<b>281.8690</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	
Worker	0.1229	0.0861	1.0456	2.9400e-003	0.3697	1.7700e-003	0.3714	0.0981	1.6300e-003	0.0997			300.9756	300.9756	9.7200e-003	9.0600e-003	303.9173
<b>Total</b>	<b>0.1229</b>	<b>0.0861</b>	<b>1.0456</b>	<b>2.9400e-003</b>	<b>0.3697</b>	<b>1.7700e-003</b>	<b>0.3714</b>	<b>0.0981</b>	<b>1.6300e-003</b>	<b>0.0997</b>			<b>300.9756</b>	<b>300.9756</b>	<b>9.7200e-003</b>	<b>9.0600e-003</b>	<b>303.9173</b>

## Rocklin Rezone - Parcel 3 (Multi-Family Residential) - Placer County APCD Air District, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****4.0 Operational Detail - Mobile****4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day											lb/day					
Mitigated	4.6560	7.2712	46.2729	0.0829	8.4567	0.0770	8.5337	2.2573	0.0723	2.3296	8,520.271 0	8,520.271 0	0.6239	0.4931	8,682.820 6		
Unmitigated	4.6560	7.2712	46.2729	0.0829	8.4567	0.0770	8.5337	2.2573	0.0723	2.3296	8,520.271 0	8,520.271 0	0.6239	0.4931	8,682.820 6		

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated		Mitigated	
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT	Annual VMT	Annual VMT
Apartments Mid Rise	1,098.88	991.82	826.18	2,992,383	2,992,383	2,992,383	2,992,383
Health Club	493.95	313.05	400.95	785,780	785,780	785,780	785,780
Parking Lot	0.00	0.00	0.00				
Total	1,592.83	1,304.87	1,227.13	3,778,163	3,778,163	3,778,163	3,778,163

**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
Apartments Mid Rise	10.80	7.30	7.50	42.60	21.00	36.40	86	11	3
Health Club	9.50	7.30	7.30	16.90	64.10	19.00	52	39	9
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

## Rocklin Rezone - Parcel 3 (Multi-Family Residential) - Placer County APCD Air District, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.463296	0.061073	0.209857	0.155594	0.036099	0.008566	0.013676	0.011873	0.000564	0.000399	0.032288	0.000990	0.005727
Health Club	0.463296	0.061073	0.209857	0.155594	0.036099	0.008566	0.013676	0.011873	0.000564	0.000399	0.032288	0.000990	0.005727
Parking Lot	0.463296	0.061073	0.209857	0.155594	0.036099	0.008566	0.013676	0.011873	0.000564	0.000399	0.032288	0.000990	0.005727

**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	0.0644	0.5546	0.2668	3.5100e-003		0.0445	0.0445		0.0445	0.0445	702.2815	702.2815	0.0135	0.0129	706.4548	
NaturalGas Unmitigated	0.0644	0.5546	0.2668	3.5100e-003		0.0445	0.0445		0.0445	0.0445	702.2815	702.2815	0.0135	0.0129	706.4548	

## Rocklin Rezone - Parcel 3 (Multi-Family Residential) - Placer County APCD Air District, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****5.2 Energy by Land Use - NaturalGas****Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	5211.17	0.0562	0.4803	0.2044	3.0700e-003		0.0388	0.0388		0.0388	0.0388	613.0793	613.0793	0.0118	0.0112	616.7225	
Health Club	758.219	8.1800e-003	0.0743	0.0624	4.5000e-004		5.6500e-003	5.6500e-003		5.6500e-003	5.6500e-003	89.2023	89.2023	1.7100e-003	1.6400e-003	89.7323	
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
<b>Total</b>		<b>0.0644</b>	<b>0.5546</b>	<b>0.2668</b>	<b>3.5200e-003</b>		<b>0.0445</b>	<b>0.0445</b>		<b>0.0445</b>	<b>0.0445</b>	<b>702.2815</b>	<b>702.2815</b>	<b>0.0135</b>	<b>0.0129</b>	<b>706.4548</b>	

## Rocklin Rezone - Parcel 3 (Multi-Family Residential) - Placer County APCD Air District, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****5.2 Energy by Land Use - NaturalGas****Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	5.21117	0.0562	0.4803	0.2044	3.0700e-003		0.0388	0.0388		0.0388	0.0388	613.0793	613.0793	0.0118	0.0112	616.7225	
Health Club	0.758219	8.1800e-003	0.0743	0.0624	4.5000e-004		5.6500e-003	5.6500e-003		5.6500e-003	5.6500e-003	89.2023	89.2023	1.7100e-003	1.6400e-003	89.7323	
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
<b>Total</b>		<b>0.0644</b>	<b>0.5546</b>	<b>0.2668</b>	<b>3.5200e-003</b>		<b>0.0445</b>	<b>0.0445</b>		<b>0.0445</b>	<b>0.0445</b>	<b>702.2815</b>	<b>702.2815</b>	<b>0.0135</b>	<b>0.0129</b>	<b>706.4548</b>	

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

Use only Natural Gas Hearths

## Rocklin Rezone - Parcel 3 (Multi-Family Residential) - Placer County APCD Air District, Winter

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Mitigated	6.3087	3.2083	17.9982	0.0201		0.3363	0.3363		0.3363	0.3363	0.0000	3,879.988	3,879.988	0.1029	0.0706	3,903.594	
Unmitigated	315.0956	6.2297	398.3144	0.6922		53.5963	53.5963		53.5963	53.5963	5,609.889	2,382.811	7,992.701	5.2061	0.4413	8,254.349	

**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	0.7439					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000	
Consumer Products	4.7054					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000	
Hearth	309.1398	6.0371	381.5995	0.6914		53.5039	53.5039		53.5039	53.5039	5,609.889	2,352.705	7,962.595	5.1770	0.4413	8,223.516	
Landscaping	0.5064	0.1926	16.7149	8.8000e-004		0.0924	0.0924		0.0924	0.0924			30.1061	30.1061	0.0291		30.8339
<b>Total</b>	<b>315.0956</b>	<b>6.2297</b>	<b>398.3144</b>	<b>0.6922</b>		<b>53.5963</b>	<b>53.5963</b>		<b>53.5963</b>	<b>53.5963</b>	<b>5,609.889</b>	<b>2,382.811</b>	<b>7,992.701</b>	<b>5.2061</b>	<b>0.4413</b>	<b>8,254.349</b>	

## Rocklin Rezone - Parcel 3 (Multi-Family Residential) - Placer County APCD Air District, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****6.2 Area by SubCategory****Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
SubCategory	lb/day										lb/day						
Architectural Coating	0.7439						0.0000	0.0000		0.0000			0.0000			0.0000	
Consumer Products	4.7054						0.0000	0.0000		0.0000			0.0000			0.0000	
Hearth	0.3529	3.0157	1.2833	0.0193			0.2438	0.2438		0.2438	0.0000	3,849.882 4	3,849.882 4	0.0738	0.0706	3,872.760 3	
Landscaping	0.5064	0.1926	16.7149	8.8000e-004			0.0924	0.0924		0.0924	0.0924		30.1061	30.1061	0.0291		30.8339
<b>Total</b>	<b>6.3087</b>	<b>3.2083</b>	<b>17.9982</b>	<b>0.0201</b>			<b>0.3363</b>	<b>0.3363</b>		<b>0.3363</b>	<b>0.0000</b>	<b>3,879.988 4</b>	<b>3,879.988 4</b>	<b>0.1029</b>	<b>0.0706</b>	<b>3,903.594 2</b>	

**7.0 Water Detail****7.1 Mitigation Measures Water**

Apply Water Conservation Strategy

## Rocklin Rezone - Parcel 3 (Multi-Family Residential) - Placer County APCD Air District, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****8.0 Waste Detail**

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**8.1 Mitigation Measures Waste****9.0 Operational Offroad**

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

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**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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**11.0 Vegetation**

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## Rocklin Rezone - Parcel 3 (Mixed Use) - Placer County APCD Air District, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****Rocklin Rezone - Parcel 3 (Mixed Use)**

Placer County APCD Air District, Annual

**1.0 Project Characteristics****1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Office Park	36.70	1000sqft	0.84	36,699.00	0
Parking Lot	402.00	Space	3.62	160,800.00	0
Health Club	8.00	1000sqft	0.18	8,000.00	0
Apartments Mid Rise	101.00	Dwelling Unit	2.10	101,000.00	289

**1.2 Other Project Characteristics**

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	74
Climate Zone	2			Operational Year	2023
Utility Company	Pacific Gas and Electric Company				
CO2 Intensity (lb/MWhr)	203.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

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

Project Characteristics -

Land Use - Lot acreage adjusted to be consistent with City's development assumptions.

Construction Phase - Architectural coating assumed to start two weeks after building construction and last for the same duration.

Water Mitigation -

Area Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	230.00
tblLandUse	LandUseSquareFeet	36,700.00	36,699.00

## Rocklin Rezone - Parcel 3 (Mixed Use) - Placer County APCD Air District, Annual

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

tblLandUse	:	LotAcreage	:	2.66	:	2.10
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**2.0 Emissions Summary**

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## Rocklin Rezone - Parcel 3 (Mixed Use) - Placer County APCD Air District, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****2.1 Overall Construction****Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2022	0.5283	1.4959	1.6004	3.3900e-003	0.2610	0.0701	0.3311	0.1096	0.0657	0.1753	0.0000	302.0275	302.0275	0.0518	8.6900e-003	305.9125
2023	0.6603	1.1525	1.4687	3.2800e-003	0.1122	0.0505	0.1628	0.0303	0.0478	0.0781	0.0000	293.1493	293.1493	0.0384	0.0103	297.1621
Maximum	0.6603	1.4959	1.6004	3.3900e-003	0.2610	0.0701	0.3311	0.1096	0.0657	0.1753	0.0000	302.0275	302.0275	0.0518	0.0103	305.9125

**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					
2022	0.5283	1.4959	1.6004	3.3900e-003	0.2610	0.0701	0.3311	0.1096	0.0657	0.1753	0.0000	302.0273	302.0273	0.0518	8.6900e-003	305.9123
2023	0.6603	1.1525	1.4687	3.2800e-003	0.1122	0.0505	0.1628	0.0303	0.0478	0.0781	0.0000	293.1491	293.1491	0.0384	0.0103	297.1619
Maximum	0.6603	1.4959	1.6004	3.3900e-003	0.2610	0.0701	0.3311	0.1096	0.0657	0.1753	0.0000	302.0273	302.0273	0.0518	0.0103	305.9123

## Rocklin Rezone - Parcel 3 (Mixed Use) - Placer County APCD Air District, Annual

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

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

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	6-1-2022	8-31-2022	0.7251	0.7251
2	9-1-2022	11-30-2022	0.9686	0.9686
3	12-1-2022	2-28-2023	0.9193	0.9193
4	3-1-2023	5-31-2023	0.9141	0.9141
5	6-1-2023	8-31-2023	0.3133	0.3133
		Highest	0.9686	0.9686

**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	7.0259	0.1325	8.5770	0.0142		1.1010	1.1010		1.1010	1.1010	104.3287	44.9869	149.3157	0.0975	8.2100e-003	154.1981
Energy	8.0600e-003	0.0705	0.0411	4.4000e-004		5.5700e-003	5.5700e-003		5.5700e-003	5.5700e-003	0.0000	162.2030	162.2030	0.0149	3.0800e-003	163.4922
Mobile	0.5767	0.8391	5.2743	0.0102	0.9838	9.3500e-003	0.9932	0.2636	8.7800e-003	0.2724	0.0000	953.1184	953.1184	0.0640	0.0523	970.3097
Waste						0.0000	0.0000		0.0000	0.0000	25.6154	0.0000	25.6154	1.5138	0.0000	63.4611
Water						0.0000	0.0000		0.0000	0.0000	4.3072	9.5291	13.8363	0.4439	0.0106	28.1031
<b>Total</b>	<b>7.6107</b>	<b>1.0421</b>	<b>13.8923</b>	<b>0.0249</b>	<b>0.9838</b>	<b>1.1159</b>	<b>2.0998</b>	<b>0.2636</b>	<b>1.1154</b>	<b>1.3789</b>	<b>134.2514</b>	<b>1,169.8374</b>	<b>1,304.0888</b>	<b>2.1341</b>	<b>0.0742</b>	<b>1,379.5642</b>

## Rocklin Rezone - Parcel 3 (Mixed Use) - Placer County APCD Air District, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****2.2 Overall Operational****Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.6958	0.0705	0.7805	4.3000e-004		9.1600e-003	9.1600e-003		9.1600e-003	9.1600e-003	0.0000	72.8304	72.8304	2.5700e-003	1.3100e-003	73.2858
Energy	8.0600e-003	0.0705	0.0411	4.4000e-004		5.5700e-003	5.5700e-003		5.5700e-003	5.5700e-003	0.0000	162.2030	162.2030	0.0149	3.0800e-003	163.4922
Mobile	0.5767	0.8391	5.2743	0.0102	0.9838	9.3500e-003	0.9932	0.2636	8.7800e-003	0.2724	0.0000	953.1184	953.1184	0.0640	0.0523	970.3097
Waste						0.0000	0.0000		0.0000	0.0000	25.6154	0.0000	25.6154	1.5138	0.0000	63.4611
Water						0.0000	0.0000		0.0000	0.0000	4.3072	8.9826	13.2899	0.4438	0.0106	27.5513
<b>Total</b>	<b>1.2806</b>	<b>0.9801</b>	<b>6.0958</b>	<b>0.0111</b>	<b>0.9838</b>	<b>0.0241</b>	<b>1.0079</b>	<b>0.2636</b>	<b>0.0235</b>	<b>0.2871</b>	<b>29.9226</b>	<b>1,197.134</b>	<b>1,227.057</b>	<b>2.0391</b>	<b>0.0673</b>	<b>1,298.100</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	83.17	5.94	56.12	55.39	0.00	97.84	52.00	0.00	97.89	79.18	77.71	-2.33	5.91	4.45	9.31	5.91

**3.0 Construction Detail****Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	6/1/2022	6/14/2022	5	10	
2	Grading	Grading	6/15/2022	7/12/2022	5	20	
3	Paving	Paving	7/13/2022	8/9/2022	5	20	

## Rocklin Rezone - Parcel 3 (Mixed Use) - Placer County APCD Air District, Annual

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

4	Building Construction	Building Construction	8/10/2022	6/27/2023	5	230
5	Architectural Coating	Architectural Coating	8/24/2022	7/11/2023	5	230

**Acres of Grading (Site Preparation Phase): 15****Acres of Grading (Grading Phase): 20****Acres of Paving: 3.62**

**Residential Indoor: 204,525; Residential Outdoor: 68,175; Non-Residential Indoor: 67,049; Non-Residential Outdoor: 22,350; Striped Parking Area: 9,648 (Architectural Coating – sqft)**

**OffRoad Equipment**

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

**Trips and VMT**

## Rocklin Rezone - Parcel 3 (Mixed Use) - Placer County APCD Air District, Annual

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

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	155.00	44.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	31.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction****3.2 Site Preparation - 2022****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Fugitive Dust					0.0983	0.0000	0.0983	0.0505	0.0000	0.0505	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Off-Road	0.0159	0.1654	0.0985	1.9000e-004		8.0600e-003	8.0600e-003		7.4200e-003	7.4200e-003	0.0000	16.7197	16.7197	5.4100e-003	0.0000	16.8549	
Total	0.0159	0.1654	0.0985	1.9000e-004	0.0983	8.0600e-003	0.1064	0.0505	7.4200e-003	0.0579	0.0000	16.7197	16.7197	5.4100e-003	0.0000	16.8549	

## Rocklin Rezone - Parcel 3 (Mixed Use) - Placer County APCD Air District, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****3.2 Site Preparation - 2022****Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Worker	2.5000e-004	1.8000e-004	2.2000e-003	1.0000e-005	7.1000e-004	0.0000	7.1000e-004	1.9000e-004	0.0000	1.9000e-004	0.0000	0.5730	0.5730	2.0000e-005	2.0000e-005	0.5783	
<b>Total</b>	<b>2.5000e-004</b>	<b>1.8000e-004</b>	<b>2.2000e-003</b>	<b>1.0000e-005</b>	<b>7.1000e-004</b>	<b>0.0000</b>	<b>7.1000e-004</b>	<b>1.9000e-004</b>	<b>0.0000</b>	<b>1.9000e-004</b>	<b>0.0000</b>	<b>0.5730</b>	<b>0.5730</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.5783</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					0.0983	0.0000	0.0983	0.0505	0.0000	0.0505	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0159	0.1654	0.0985	1.9000e-004		8.0600e-003	8.0600e-003		7.4200e-003	7.4200e-003	0.0000	16.7197	16.7197	5.4100e-003	0.0000	16.8549
<b>Total</b>	<b>0.0159</b>	<b>0.1654</b>	<b>0.0985</b>	<b>1.9000e-004</b>	<b>0.0983</b>	<b>8.0600e-003</b>	<b>0.1064</b>	<b>0.0505</b>	<b>7.4200e-003</b>	<b>0.0579</b>	<b>0.0000</b>	<b>16.7197</b>	<b>16.7197</b>	<b>5.4100e-003</b>	<b>0.0000</b>	<b>16.8549</b>

## Rocklin Rezone - Parcel 3 (Mixed Use) - Placer County APCD Air District, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****3.2 Site Preparation - 2022****Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Worker	2.5000e-004	1.8000e-004	2.2000e-003	1.0000e-005	7.1000e-004	0.0000	7.1000e-004	1.9000e-004	0.0000	1.9000e-004	0.0000	0.5730	0.5730	2.0000e-005	2.0000e-005	0.5783	
<b>Total</b>	<b>2.5000e-004</b>	<b>1.8000e-004</b>	<b>2.2000e-003</b>	<b>1.0000e-005</b>	<b>7.1000e-004</b>	<b>0.0000</b>	<b>7.1000e-004</b>	<b>1.9000e-004</b>	<b>0.0000</b>	<b>1.9000e-004</b>	<b>0.0000</b>	<b>0.5730</b>	<b>0.5730</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.5783</b>	

**3.3 Grading - 2022****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0708	0.0000	0.0708	0.0343	0.0000	0.0343	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0195	0.2086	0.1527	3.0000e-004		9.4100e-003	9.4100e-003		8.6600e-003	8.6600e-003	0.0000	26.0548	26.0548	8.4300e-003	0.0000	26.2654
<b>Total</b>	<b>0.0195</b>	<b>0.2086</b>	<b>0.1527</b>	<b>3.0000e-004</b>	<b>0.0708</b>	<b>9.4100e-003</b>	<b>0.0802</b>	<b>0.0343</b>	<b>8.6600e-003</b>	<b>0.0429</b>	<b>0.0000</b>	<b>26.0548</b>	<b>26.0548</b>	<b>8.4300e-003</b>	<b>0.0000</b>	<b>26.2654</b>

## Rocklin Rezone - Parcel 3 (Mixed Use) - Placer County APCD Air District, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****3.3 Grading - 2022****Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Worker	4.2000e-004	2.9000e-004	3.6700e-003	1.0000e-005	1.1800e-003	1.0000e-005	1.1800e-003	3.1000e-004	1.0000e-005	3.2000e-004	0.0000	0.9549	0.9549	3.0000e-005	3.0000e-005	0.9639	
<b>Total</b>	<b>4.2000e-004</b>	<b>2.9000e-004</b>	<b>3.6700e-003</b>	<b>1.0000e-005</b>	<b>1.1800e-003</b>	<b>1.0000e-005</b>	<b>1.1800e-003</b>	<b>3.1000e-004</b>	<b>1.0000e-005</b>	<b>3.2000e-004</b>	<b>0.0000</b>	<b>0.9549</b>	<b>0.9549</b>	<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>0.9639</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					0.0708	0.0000	0.0708	0.0343	0.0000	0.0343	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0195	0.2086	0.1527	3.0000e-004		9.4100e-003	9.4100e-003		8.6600e-003	8.6600e-003	0.0000	26.0547	26.0547	8.4300e-003	0.0000	26.2654
<b>Total</b>	<b>0.0195</b>	<b>0.2086</b>	<b>0.1527</b>	<b>3.0000e-004</b>	<b>0.0708</b>	<b>9.4100e-003</b>	<b>0.0802</b>	<b>0.0343</b>	<b>8.6600e-003</b>	<b>0.0429</b>	<b>0.0000</b>	<b>26.0547</b>	<b>26.0547</b>	<b>8.4300e-003</b>	<b>0.0000</b>	<b>26.2654</b>

## Rocklin Rezone - Parcel 3 (Mixed Use) - Placer County APCD Air District, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****3.3 Grading - 2022****Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Worker	4.2000e-004	2.9000e-004	3.6700e-003	1.0000e-005	1.1800e-003	1.0000e-005	1.1800e-003	3.1000e-004	1.0000e-005	3.2000e-004	0.0000	0.9549	0.9549	3.0000e-005	3.0000e-005	0.9639	
<b>Total</b>	<b>4.2000e-004</b>	<b>2.9000e-004</b>	<b>3.6700e-003</b>	<b>1.0000e-005</b>	<b>1.1800e-003</b>	<b>1.0000e-005</b>	<b>1.1800e-003</b>	<b>3.1000e-004</b>	<b>1.0000e-005</b>	<b>3.2000e-004</b>	<b>0.0000</b>	<b>0.9549</b>	<b>0.9549</b>	<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>0.9639</b>	

**3.4 Paving - 2022****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Off-Road	0.0110	0.1113	0.1458	2.3000e-004			5.6800e-003	5.6800e-003		5.2200e-003	5.2200e-003	0.0000	20.0276	20.0276	6.4800e-003	0.0000	20.1895
Paving	4.7400e-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>0.0158</b>	<b>0.1113</b>	<b>0.1458</b>	<b>2.3000e-004</b>			<b>5.6800e-003</b>	<b>5.6800e-003</b>		<b>5.2200e-003</b>	<b>5.2200e-003</b>	<b>0.0000</b>	<b>20.0276</b>	<b>20.0276</b>	<b>6.4800e-003</b>	<b>0.0000</b>	<b>20.1895</b>

## Rocklin Rezone - Parcel 3 (Mixed Use) - Placer County APCD Air District, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****3.4 Paving - 2022****Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Worker	4.2000e-004	2.9000e-004	3.6700e-003	1.0000e-005	1.1800e-003	1.0000e-005	1.1800e-003	3.1000e-004	1.0000e-005	3.2000e-004	0.0000	0.9549	0.9549	3.0000e-005	3.0000e-005	0.9639	
<b>Total</b>	<b>4.2000e-004</b>	<b>2.9000e-004</b>	<b>3.6700e-003</b>	<b>1.0000e-005</b>	<b>1.1800e-003</b>	<b>1.0000e-005</b>	<b>1.1800e-003</b>	<b>3.1000e-004</b>	<b>1.0000e-005</b>	<b>3.2000e-004</b>	<b>0.0000</b>	<b>0.9549</b>	<b>0.9549</b>	<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>0.9639</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	0.0110	0.1113	0.1458	2.3000e-004			5.6800e-003	5.6800e-003		5.2200e-003	5.2200e-003	0.0000	20.0275	20.0275	6.4800e-003	0.0000	20.1895
Paving	4.7400e-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>0.0158</b>	<b>0.1113</b>	<b>0.1458</b>	<b>2.3000e-004</b>			<b>5.6800e-003</b>	<b>5.6800e-003</b>		<b>5.2200e-003</b>	<b>5.2200e-003</b>	<b>0.0000</b>	<b>20.0275</b>	<b>20.0275</b>	<b>6.4800e-003</b>	<b>0.0000</b>	<b>20.1895</b>

## Rocklin Rezone - Parcel 3 (Mixed Use) - Placer County APCD Air District, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****3.4 Paving - 2022****Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Worker	4.2000e-004	2.9000e-004	3.6700e-003	1.0000e-005	1.1800e-003	1.0000e-005	1.1800e-003	3.1000e-004	1.0000e-005	3.2000e-004	0.0000	0.9549	0.9549	3.0000e-005	3.0000e-005	0.9639	
<b>Total</b>	<b>4.2000e-004</b>	<b>2.9000e-004</b>	<b>3.6700e-003</b>	<b>1.0000e-005</b>	<b>1.1800e-003</b>	<b>1.0000e-005</b>	<b>1.1800e-003</b>	<b>3.1000e-004</b>	<b>1.0000e-005</b>	<b>3.2000e-004</b>	<b>0.0000</b>	<b>0.9549</b>	<b>0.9549</b>	<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>0.9639</b>	

**3.5 Building Construction - 2022****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0879	0.8042	0.8427	1.3900e-003		0.0417	0.0417		0.0392	0.0392	0.0000	119.3385	119.3385	0.0286	0.0000	120.0533
<b>Total</b>	<b>0.0879</b>	<b>0.8042</b>	<b>0.8427</b>	<b>1.3900e-003</b>		<b>0.0417</b>	<b>0.0417</b>		<b>0.0392</b>	<b>0.0392</b>	<b>0.0000</b>	<b>119.3385</b>	<b>119.3385</b>	<b>0.0286</b>	<b>0.0000</b>	<b>120.0533</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****3.5 Building Construction - 2022****Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Vendor	4.2200e-003	0.1219	0.0363	4.8000e-004	0.0148	1.1200e-003	0.0159	4.2900e-003	1.0700e-003	5.3500e-003	0.0000	45.5368	45.5368	2.0000e-004	6.8900e-003	47.5945	
Worker	0.0222	0.0156	0.1952	5.5000e-004	0.0627	3.3000e-004	0.0630	0.0167	3.1000e-004	0.0170	0.0000	50.8180	50.8180	1.5900e-003	1.4600e-003	51.2941	
<b>Total</b>	<b>0.0264</b>	<b>0.1374</b>	<b>0.2315</b>	<b>1.0300e-003</b>	<b>0.0775</b>	<b>1.4500e-003</b>	<b>0.0789</b>	<b>0.0210</b>	<b>1.3800e-003</b>	<b>0.0223</b>	<b>0.0000</b>	<b>96.3547</b>	<b>96.3547</b>	<b>1.7900e-003</b>	<b>8.3500e-003</b>	<b>98.8886</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	0.0879	0.8042	0.8427	1.3900e-003		0.0417	0.0417		0.0392	0.0392	0.0000	119.3384	119.3384	0.0286	0.0000	120.0531
<b>Total</b>	<b>0.0879</b>	<b>0.8042</b>	<b>0.8427</b>	<b>1.3900e-003</b>		<b>0.0417</b>	<b>0.0417</b>		<b>0.0392</b>	<b>0.0392</b>	<b>0.0000</b>	<b>119.3384</b>	<b>119.3384</b>	<b>0.0286</b>	<b>0.0000</b>	<b>120.0531</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****3.5 Building Construction - 2022****Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Vendor	4.2200e-003	0.1219	0.0363	4.8000e-004	0.0148	1.1200e-003	0.0159	4.2900e-003	1.0700e-003	5.3500e-003	0.0000	45.5368	45.5368	2.0000e-004	6.8900e-003	47.5945	
Worker	0.0222	0.0156	0.1952	5.5000e-004	0.0627	3.3000e-004	0.0630	0.0167	3.1000e-004	0.0170	0.0000	50.8180	50.8180	1.5900e-003	1.4600e-003	51.2941	
<b>Total</b>	<b>0.0264</b>	<b>0.1374</b>	<b>0.2315</b>	<b>1.0300e-003</b>	<b>0.0775</b>	<b>1.4500e-003</b>	<b>0.0789</b>	<b>0.0210</b>	<b>1.3800e-003</b>	<b>0.0223</b>	<b>0.0000</b>	<b>96.3547</b>	<b>96.3547</b>	<b>1.7900e-003</b>	<b>8.3500e-003</b>	<b>98.8886</b>	

**3.5 Building Construction - 2023****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	0.0999	0.9134	1.0315	1.7100e-003		0.0444	0.0444		0.0418	0.0418	0.0000	147.1960	147.1960	0.0350	0.0000	148.0714
<b>Total</b>	<b>0.0999</b>	<b>0.9134</b>	<b>1.0315</b>	<b>1.7100e-003</b>		<b>0.0444</b>	<b>0.0444</b>		<b>0.0418</b>	<b>0.0418</b>	<b>0.0000</b>	<b>147.1960</b>	<b>147.1960</b>	<b>0.0350</b>	<b>0.0000</b>	<b>148.0714</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****3.5 Building Construction - 2023****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	3.2100e-003	0.1291	0.0409	5.7000e-004	0.0183	7.8000e-004	0.0190	5.2800e-003	7.4000e-004	6.0300e-003	0.0000	54.2599	54.2599	1.5000e-004	8.2000e-003	56.7087	
Worker	0.0254	0.0170	0.2239	6.6000e-004	0.0773	3.9000e-004	0.0777	0.0206	3.6000e-004	0.0209	0.0000	61.0353	61.0353	1.7800e-003	1.6800e-003	61.5802	
<b>Total</b>	<b>0.0286</b>	<b>0.1461</b>	<b>0.2648</b>	<b>1.2300e-003</b>	<b>0.0955</b>	<b>1.1700e-003</b>	<b>0.0967</b>	<b>0.0259</b>	<b>1.1000e-003</b>	<b>0.0270</b>	<b>0.0000</b>	<b>115.2952</b>	<b>115.2952</b>	<b>1.9300e-003</b>	<b>9.8800e-003</b>	<b>118.2889</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	0.0999	0.9134	1.0315	1.7100e-003		0.0444	0.0444		0.0418	0.0418	0.0000	147.1958	147.1958	0.0350	0.0000	148.0712
<b>Total</b>	<b>0.0999</b>	<b>0.9134</b>	<b>1.0315</b>	<b>1.7100e-003</b>		<b>0.0444</b>	<b>0.0444</b>		<b>0.0418</b>	<b>0.0418</b>	<b>0.0000</b>	<b>147.1958</b>	<b>147.1958</b>	<b>0.0350</b>	<b>0.0000</b>	<b>148.0712</b>

## Rocklin Rezone - Parcel 3 (Mixed Use) - Placer County APCD Air District, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****3.5 Building Construction - 2023****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	3.2100e-003	0.1291	0.0409	5.7000e-004	0.0183	7.8000e-004	0.0190	5.2800e-003	7.4000e-004	6.0300e-003	0.0000	54.2599	54.2599	1.5000e-004	8.2000e-003	56.7087	
Worker	0.0254	0.0170	0.2239	6.6000e-004	0.0773	3.9000e-004	0.0777	0.0206	3.6000e-004	0.0209	0.0000	61.0353	61.0353	1.7800e-003	1.6800e-003	61.5802	
<b>Total</b>	<b>0.0286</b>	<b>0.1461</b>	<b>0.2648</b>	<b>1.2300e-003</b>	<b>0.0955</b>	<b>1.1700e-003</b>	<b>0.0967</b>	<b>0.0259</b>	<b>1.1000e-003</b>	<b>0.0270</b>	<b>0.0000</b>	<b>115.2952</b>	<b>115.2952</b>	<b>1.9300e-003</b>	<b>9.8800e-003</b>	<b>118.2889</b>	

**3.6 Architectural Coating - 2022****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.3484					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.5100e-003	0.0655	0.0843	1.4000e-004		3.8000e-003	3.8000e-003		3.8000e-003	3.8000e-003	0.0000	11.8726	11.8726	7.7000e-004	0.0000	11.8920
<b>Total</b>	<b>0.3579</b>	<b>0.0655</b>	<b>0.0843</b>	<b>1.4000e-004</b>		<b>3.8000e-003</b>	<b>3.8000e-003</b>		<b>3.8000e-003</b>	<b>3.8000e-003</b>	<b>0.0000</b>	<b>11.8726</b>	<b>11.8726</b>	<b>7.7000e-004</b>	<b>0.0000</b>	<b>11.8920</b>

## Rocklin Rezone - Parcel 3 (Mixed Use) - Placer County APCD Air District, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****3.6 Architectural Coating - 2022****Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Worker	4.0100e-003	2.8100e-003	0.0353	1.0000e-004	0.0113	6.0000e-005	0.0114	3.0100e-003	6.0000e-005	3.0700e-003	0.0000	9.1768	9.1768	2.9000e-004	2.6000e-004	9.2628	
<b>Total</b>	<b>4.0100e-003</b>	<b>2.8100e-003</b>	<b>0.0353</b>	<b>1.0000e-004</b>	<b>0.0113</b>	<b>6.0000e-005</b>	<b>0.0114</b>	<b>3.0100e-003</b>	<b>6.0000e-005</b>	<b>3.0700e-003</b>	<b>0.0000</b>	<b>9.1768</b>	<b>9.1768</b>	<b>2.9000e-004</b>	<b>2.6000e-004</b>	<b>9.2628</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	0.3484					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.5100e-003	0.0655	0.0843	1.4000e-004		3.8000e-003	3.8000e-003		3.8000e-003	3.8000e-003	0.0000	11.8726	11.8726	7.7000e-004	0.0000	11.8919
<b>Total</b>	<b>0.3579</b>	<b>0.0655</b>	<b>0.0843</b>	<b>1.4000e-004</b>		<b>3.8000e-003</b>	<b>3.8000e-003</b>		<b>3.8000e-003</b>	<b>3.8000e-003</b>	<b>0.0000</b>	<b>11.8726</b>	<b>11.8726</b>	<b>7.7000e-004</b>	<b>0.0000</b>	<b>11.8919</b>

## Rocklin Rezone - Parcel 3 (Mixed Use) - Placer County APCD Air District, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****3.6 Architectural Coating - 2022****Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Worker	4.0100e-003	2.8100e-003	0.0353	1.0000e-004	0.0113	6.0000e-005	0.0114	3.0100e-003	6.0000e-005	3.0700e-003	0.0000	9.1768	9.1768	2.9000e-004	2.6000e-004	9.2628	
<b>Total</b>	<b>4.0100e-003</b>	<b>2.8100e-003</b>	<b>0.0353</b>	<b>1.0000e-004</b>	<b>0.0113</b>	<b>6.0000e-005</b>	<b>0.0114</b>	<b>3.0100e-003</b>	<b>6.0000e-005</b>	<b>3.0700e-003</b>	<b>0.0000</b>	<b>9.1768</b>	<b>9.1768</b>	<b>2.9000e-004</b>	<b>2.6000e-004</b>	<b>9.2628</b>	

**3.6 Architectural Coating - 2023****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	0.5132					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0131	0.0893	0.1241	2.0000e-004		4.8500e-003	4.8500e-003		4.8500e-003	4.8500e-003	0.0000	17.4898	17.4898	1.0500e-003	0.0000	17.5160
<b>Total</b>	<b>0.5263</b>	<b>0.0893</b>	<b>0.1241</b>	<b>2.0000e-004</b>		<b>4.8500e-003</b>	<b>4.8500e-003</b>		<b>4.8500e-003</b>	<b>4.8500e-003</b>	<b>0.0000</b>	<b>17.4898</b>	<b>17.4898</b>	<b>1.0500e-003</b>	<b>0.0000</b>	<b>17.5160</b>

## Rocklin Rezone - Parcel 3 (Mixed Use) - Placer County APCD Air District, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****3.6 Architectural Coating - 2023****Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Worker	5.4900e-003	3.6800e-003	0.0483	1.4000e-004	0.0167	8.0000e-005	0.0168	4.4400e-003	8.0000e-005	4.5200e-003	0.0000	13.1683	13.1683	3.8000e-004	3.6000e-004	13.2858	
<b>Total</b>	<b>5.4900e-003</b>	<b>3.6800e-003</b>	<b>0.0483</b>	<b>1.4000e-004</b>	<b>0.0167</b>	<b>8.0000e-005</b>	<b>0.0168</b>	<b>4.4400e-003</b>	<b>8.0000e-005</b>	<b>4.5200e-003</b>	<b>0.0000</b>	<b>13.1683</b>	<b>13.1683</b>	<b>3.8000e-004</b>	<b>3.6000e-004</b>	<b>13.2858</b>	

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.5132					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0131	0.0893	0.1241	2.0000e-004		4.8500e-003	4.8500e-003		4.8500e-003	4.8500e-003	0.0000	17.4898	17.4898	1.0500e-003	0.0000	17.5159
<b>Total</b>	<b>0.5263</b>	<b>0.0893</b>	<b>0.1241</b>	<b>2.0000e-004</b>		<b>4.8500e-003</b>	<b>4.8500e-003</b>		<b>4.8500e-003</b>	<b>4.8500e-003</b>	<b>0.0000</b>	<b>17.4898</b>	<b>17.4898</b>	<b>1.0500e-003</b>	<b>0.0000</b>	<b>17.5159</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****3.6 Architectural Coating - 2023****Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Worker	5.4900e-003	3.6800e-003	0.0483	1.4000e-004	0.0167	8.0000e-005	0.0168	4.4400e-003	8.0000e-005	4.5200e-003	0.0000	13.1683	13.1683	3.8000e-004	3.6000e-004	13.2858	
<b>Total</b>	<b>5.4900e-003</b>	<b>3.6800e-003</b>	<b>0.0483</b>	<b>1.4000e-004</b>	<b>0.0167</b>	<b>8.0000e-005</b>	<b>0.0168</b>	<b>4.4400e-003</b>	<b>8.0000e-005</b>	<b>4.5200e-003</b>	<b>0.0000</b>	<b>13.1683</b>	<b>13.1683</b>	<b>3.8000e-004</b>	<b>3.6000e-004</b>	<b>13.2858</b>	

**4.0 Operational Detail - Mobile****4.1 Mitigation Measures Mobile**

## Rocklin Rezone - Parcel 3 (Mixed Use) - Placer County APCD Air District, Annual

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Mitigated	0.5767	0.8391	5.2743	0.0102	0.9838	9.3500e-003	0.9932	0.2636	8.7800e-003	0.2724	0.0000	953.1184	953.1184	0.0640	0.0523	970.3097	
Unmitigated	0.5767	0.8391	5.2743	0.0102	0.9838	9.3500e-003	0.9932	0.2636	8.7800e-003	0.2724	0.0000	953.1184	953.1184	0.0640	0.0523	970.3097	

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated		Mitigated	
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT	Annual VMT	Annual VMT
Apartments Mid Rise	549.44	495.91	413.09	1,496,192	1,496,192	1,496,192	1,496,192
Health Club	263.44	166.96	213.84	419,083	419,083	419,083	419,083
Office Park	406.27	60.19	27.89	758,829	758,829	758,829	758,829
Parking Lot	0.00	0.00	0.00				
Total	1,219.15	723.06	654.82	2,674,103	2,674,103	2,674,103	2,674,103

**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
Apartments Mid Rise	10.80	7.30	7.50	42.60	21.00	36.40	86	11	3
Health Club	9.50	7.30	7.30	16.90	64.10	19.00	52	39	9
Office Park	9.50	7.30	7.30	33.00	48.00	19.00	82	15	3
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

**4.4 Fleet Mix**

## Rocklin Rezone - Parcel 3 (Mixed Use) - Placer County APCD Air District, Annual

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

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.463296	0.061073	0.209857	0.155594	0.036099	0.008566	0.013676	0.011873	0.000564	0.000399	0.032288	0.000990	0.005727
Health Club	0.463296	0.061073	0.209857	0.155594	0.036099	0.008566	0.013676	0.011873	0.000564	0.000399	0.032288	0.000990	0.005727
Office Park	0.463296	0.061073	0.209857	0.155594	0.036099	0.008566	0.013676	0.011873	0.000564	0.000399	0.032288	0.000990	0.005727
Parking Lot	0.463296	0.061073	0.209857	0.155594	0.036099	0.008566	0.013676	0.011873	0.000564	0.000399	0.032288	0.000990	0.005727

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	82.4248	82.4248	0.0133	1.6200e-003		83.2398
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	82.4248	82.4248	0.0133	1.6200e-003		83.2398
NaturalGas Mitigated	8.0600e-003	0.0705	0.0411	4.4000e-004		5.5700e-003	5.5700e-003	5.5700e-003	5.5700e-003	0.0000	79.7783	79.7783	1.5300e-003	1.4600e-003		80.2524
NaturalGas Unmitigated	8.0600e-003	0.0705	0.0411	4.4000e-004		5.5700e-003	5.5700e-003	5.5700e-003	5.5700e-003	0.0000	79.7783	79.7783	1.5300e-003	1.4600e-003		80.2524

## Rocklin Rezone - Parcel 3 (Mixed Use) - Placer County APCD Air District, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****5.2 Energy by Land Use - NaturalGas****Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	951039	5.1300e-003	0.0438	0.0187	2.8000e-004		3.5400e-003	3.5400e-003		3.5400e-003	3.5400e-003	0.0000	50.7511	50.7511	9.7000e-004	9.3000e-004	51.0527
Health Club	147600	8.0000e-004	7.2400e-003	6.0800e-003	4.0000e-005		5.5000e-004	5.5000e-004		5.5000e-004	5.5000e-004	0.0000	7.8765	7.8765	1.5000e-004	1.4000e-004	7.9233
Office Park	396349	2.1400e-003	0.0194	0.0163	1.2000e-004		1.4800e-003	1.4800e-003		1.4800e-003	1.4800e-003	0.0000	21.1507	21.1507	4.1000e-004	3.9000e-004	21.2764
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>8.0700e-003</b>	<b>0.0705</b>	<b>0.0411</b>	<b>4.4000e-004</b>		<b>5.5700e-003</b>	<b>5.5700e-003</b>		<b>5.5700e-003</b>	<b>5.5700e-003</b>	<b>0.0000</b>	<b>79.7783</b>	<b>79.7783</b>	<b>1.5300e-003</b>	<b>1.4600e-003</b>	<b>80.2524</b>

## Rocklin Rezone - Parcel 3 (Mixed Use) - Placer County APCD Air District, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****5.2 Energy by Land Use - NaturalGas****Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	951039	5.1300e-003	0.0438	0.0187	2.8000e-004		3.5400e-003	3.5400e-003		3.5400e-003	3.5400e-003	0.0000	50.7511	50.7511	9.7000e-004	9.3000e-004	51.0527
Health Club	147600	8.0000e-004	7.2400e-003	6.0800e-003	4.0000e-005		5.5000e-004	5.5000e-004		5.5000e-004	5.5000e-004	0.0000	7.8765	7.8765	1.5000e-004	1.4000e-004	7.9233
Office Park	396349	2.1400e-003	0.0194	0.0163	1.2000e-004		1.4800e-003	1.4800e-003		1.4800e-003	1.4800e-003	0.0000	21.1507	21.1507	4.1000e-004	3.9000e-004	21.2764
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>8.0700e-003</b>	<b>0.0705</b>	<b>0.0411</b>	<b>4.4000e-004</b>		<b>5.5700e-003</b>	<b>5.5700e-003</b>		<b>5.5700e-003</b>	<b>5.5700e-003</b>	<b>0.0000</b>	<b>79.7783</b>	<b>79.7783</b>	<b>1.5300e-003</b>	<b>1.4600e-003</b>	<b>80.2524</b>

## Rocklin Rezone - Parcel 3 (Mixed Use) - Placer County APCD Air District, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****5.3 Energy by Land Use - Electricity****Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	393266	36.3864	5.8900e-003	7.1000e-004	36.7462
Health Club	66240	6.1288	9.9000e-004	1.2000e-004	6.1894
Office Park	375064	34.7023	5.6100e-003	6.8000e-004	35.0455
Parking Lot	56280	5.2072	8.4000e-004	1.0000e-004	5.2587
<b>Total</b>		<b>82.4248</b>	<b>0.0133</b>	<b>1.6100e-003</b>	<b>83.2398</b>

## Rocklin Rezone - Parcel 3 (Mixed Use) - Placer County APCD Air District, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****5.3 Energy by Land Use - Electricity****Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	393266	36.3864	5.8900e-003	7.1000e-004	36.7462
Health Club	66240	6.1288	9.9000e-004	1.2000e-004	6.1894
Office Park	375064	34.7023	5.6100e-003	6.8000e-004	35.0455
Parking Lot	56280	5.2072	8.4000e-004	1.0000e-004	5.2587
<b>Total</b>		<b>82.4248</b>	<b>0.0133</b>	<b>1.6100e-003</b>	<b>83.2398</b>

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

Use only Natural Gas Hearths

## Rocklin Rezone - Parcel 3 (Mixed Use) - Placer County APCD Air District, Annual

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.6958	0.0705	0.7805	4.3000e-004		9.1600e-003	9.1600e-003		9.1600e-003	9.1600e-003	0.0000	72.8304	72.8304	2.5700e-003	1.3100e-003	73.2858
Unmitigated	7.0259	0.1325	8.5770	0.0142		1.1010	1.1010		1.1010	1.1010	104.3287	44.9869	149.3157	0.0975	8.2100e-003	154.1981

**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	0.0862					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.5794					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	6.3374	0.1238	7.8228	0.0142		1.0968	1.0968		1.0968	1.0968	104.3287	43.7540	148.0827	0.0963	8.2100e-003	152.9351
Landscaping	0.0230	8.6800e-003	0.7542	4.0000e-005		4.1700e-003	4.1700e-003		4.1700e-003	4.1700e-003	0.0000	1.2330	1.2330	1.2000e-003	0.0000	1.2630
<b>Total</b>	<b>7.0259</b>	<b>0.1324</b>	<b>8.5770</b>	<b>0.0142</b>		<b>1.1010</b>	<b>1.1010</b>		<b>1.1010</b>	<b>1.1010</b>	<b>104.3287</b>	<b>44.9869</b>	<b>149.3157</b>	<b>0.0975</b>	<b>8.2100e-003</b>	<b>154.1981</b>

## Rocklin Rezone - Parcel 3 (Mixed Use) - Placer County APCD Air District, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****6.2 Area by SubCategory****Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0862					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.5794					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	7.2300e-003	0.0618	0.0263	3.9000e-004		5.0000e-003	5.0000e-003		5.0000e-003	5.0000e-003	0.0000	71.5974	71.5974	1.3700e-003	1.3100e-003	72.0228
Landscaping	0.0230	8.6800e-003	0.7542	4.0000e-005		4.1700e-003	4.1700e-003		4.1700e-003	4.1700e-003	0.0000	1.2330	1.2330	1.2000e-003	0.0000	1.2630
<b>Total</b>	<b>0.6958</b>	<b>0.0705</b>	<b>0.7805</b>	<b>4.3000e-004</b>		<b>9.1700e-003</b>	<b>9.1700e-003</b>		<b>9.1700e-003</b>	<b>9.1700e-003</b>	<b>0.0000</b>	<b>72.8304</b>	<b>72.8304</b>	<b>2.5700e-003</b>	<b>1.3100e-003</b>	<b>73.2858</b>

**7.0 Water Detail****7.1 Mitigation Measures Water**

Apply Water Conservation Strategy

## Rocklin Rezone - Parcel 3 (Mixed Use) - Placer County APCD Air District, Annual

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

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	13.2899	0.4438	0.0106	27.5513
Unmitigated	13.8363	0.4439	0.0106	28.1031

**7.2 Water by Land Use****Unmitigated**

	Indoor/Out door Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	6.58056 / 4.14861	6.7257	0.2152	5.1500e- 003	13.6411
Health Club	0.473145 / 0.289992	0.4809	0.0155	3.7000e- 004	0.9781
Office Park	6.52283 / 3.99786	6.6297	0.2133	5.1100e- 003	13.4840
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>13.8363</b>	<b>0.4439</b>	<b>0.0106</b>	<b>28.1031</b>

## Rocklin Rezone - Parcel 3 (Mixed Use) - Placer County APCD Air District, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****7.2 Water by Land Use****Mitigated**

	Indoor/Out door Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	6.58056 / 3.31889	6.4570	0.2151	5.1500e- 003	13.3697
Health Club	0.473145 / 0.231994	0.4621	0.0155	3.7000e- 004	0.9591
Office Park	6.52283 / 3.19829	6.3707	0.2132	5.1000e- 003	13.2225
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>13.2898</b>	<b>0.4438</b>	<b>0.0106</b>	<b>27.5513</b>

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

## Rocklin Rezone - Parcel 3 (Mixed Use) - Placer County APCD Air District, Annual

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

	Total CO2	CH4	N2O	CO2e
MT/yr				
Mitigated	25.6154	1.5138	0.0000	63.4611
Unmitigated	25.6154	1.5138	0.0000	63.4611

**8.2 Waste by Land Use****Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use tons MT/yr					
Apartments Mid Rise	46.46	9.4310	0.5574	0.0000	23.3648
Health Club	45.6	9.2564	0.5470	0.0000	22.9323
Office Park	34.13	6.9281	0.4094	0.0000	17.1640
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>25.6154</b>	<b>1.5138</b>	<b>0.0000</b>	<b>63.4611</b>

## Rocklin Rezone - Parcel 3 (Mixed Use) - Placer County APCD Air District, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****8.2 Waste by Land Use****Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	46.46	9.4310	0.5574	0.0000	23.3648
Health Club	45.6	9.2564	0.5470	0.0000	22.9323
Office Park	34.13	6.9281	0.4094	0.0000	17.1640
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>25.6154</b>	<b>1.5138</b>	<b>0.0000</b>	<b>63.4611</b>

**9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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**10.0 Stationary Equipment****Fire Pumps and Emergency Generators**

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

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

Rocklin Rezone - Parcel 3 (Mixed Use) - Placer County APCD Air District, Annual

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

Equipment Type	Number
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## 11.0 Vegetation

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## Rocklin Rezone - Parcel 3 (Mixed Use) - Placer County APCD Air District, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****Rocklin Rezone - Parcel 3 (Mixed Use)**

Placer County APCD Air District, Summer

**1.0 Project Characteristics****1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Office Park	36.70	1000sqft	0.84	36,699.00	0
Parking Lot	402.00	Space	3.62	160,800.00	0
Health Club	8.00	1000sqft	0.18	8,000.00	0
Apartments Mid Rise	101.00	Dwelling Unit	2.10	101,000.00	289

**1.2 Other Project Characteristics**

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	74
Climate Zone	2			Operational Year	2023
Utility Company	Pacific Gas and Electric Company				
CO2 Intensity (lb/MWhr)	203.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

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

Project Characteristics -

Land Use - Lot acreage adjusted to be consistent with City's development assumptions.

Construction Phase - Architectural coating assumed to start two weeks after building construction and last for the same duration.

Water Mitigation -

Area Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	230.00
tblLandUse	LandUseSquareFeet	36,700.00	36,699.00

Rocklin Rezone - Parcel 3 (Mixed Use) - Placer County APCD Air District, Summer

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

tblLandUse	:	LotAcreage	:	2.66	:	2.10
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## 2.0 Emissions Summary

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## Rocklin Rezone - Parcel 3 (Mixed Use) - Placer County APCD Air District, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****2.1 Overall Construction (Maximum Daily Emission)****Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	10.0732	33.1146	23.9728	0.0531	19.8049	1.6133	21.4182	10.1417	1.4843	11.6259	0.0000	5,227.333 1	5,227.333 1	1.1958	0.1821	5,298.391 1
2023	9.8541	17.9070	23.4282	0.0523	1.8261	0.7901	2.6162	0.4911	0.7477	1.2388	0.0000	5,158.028 9	5,158.028 9	0.6616	0.1746	5,226.587 5
Maximum	10.0732	33.1146	23.9728	0.0531	19.8049	1.6133	21.4182	10.1417	1.4843	11.6259	0.0000	5,227.333 1	5,227.333 1	1.1958	0.1821	5,298.391 1

**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					
2022	10.0732	33.1146	23.9728	0.0531	19.8049	1.6133	21.4182	10.1417	1.4843	11.6259	0.0000	5,227.333 1	5,227.333 1	1.1958	0.1821	5,298.391 1
2023	9.8541	17.9070	23.4282	0.0523	1.8261	0.7901	2.6162	0.4911	0.7477	1.2388	0.0000	5,158.028 9	5,158.028 9	0.6616	0.1746	5,226.587 5
Maximum	10.0732	33.1146	23.9728	0.0531	19.8049	1.6133	21.4182	10.1417	1.4843	11.6259	0.0000	5,227.333 1	5,227.333 1	1.1958	0.1821	5,298.391 1

Rocklin Rezone - Parcel 3 (Mixed Use) - Placer County APCD Air District, Summer

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

## Rocklin Rezone - Parcel 3 (Mixed Use) - Placer County APCD Air District, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****2.2 Overall Operational****Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Area	158.4722	3.1151	199.1798	0.3461		26.7982	26.7982		26.7982	26.7982	2,804.944 8	1,191.454 5	3,996.399 3	2.6032	0.2206	4,127.226 6	
Energy	0.0442	0.3862	0.2249	2.4100e-003		0.0305	0.0305		0.0305	0.0305	481.8657	481.8657	9.2400e-003	8.8300e-003	484.7292		
Mobile	4.2610	4.8146	33.6694	0.0680	6.4405	0.0586	6.4991	1.7192	0.0550	1.7742	6,983.816 2	6,983.816 2	0.4079	0.3443	7,096.627 9		
<b>Total</b>	<b>162.7774</b>	<b>8.3159</b>	<b>233.0741</b>	<b>0.4165</b>	<b>6.4405</b>	<b>26.8874</b>	<b>33.3279</b>	<b>1.7192</b>	<b>26.8838</b>	<b>28.6029</b>	<b>2,804.944 8</b>	<b>8,657.136 5</b>	<b>11,462.08 13</b>	<b>3.0204</b>	<b>0.5738</b>	<b>11,708.58 37</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	4.0788	1.6044	9.0217	0.0101		0.1682	0.1682		0.1682	0.1682	0.0000	1,940.042 7	1,940.042 7	0.0516	0.0353	1,951.848 8	
Energy	0.0442	0.3862	0.2249	2.4100e-003		0.0305	0.0305		0.0305	0.0305	481.8657	481.8657	9.2400e-003	8.8300e-003	484.7292		
Mobile	4.2610	4.8146	33.6694	0.0680	6.4405	0.0586	6.4991	1.7192	0.0550	1.7742	6,983.816 2	6,983.816 2	0.4079	0.3443	7,096.627 9		
<b>Total</b>	<b>8.3839</b>	<b>6.8052</b>	<b>42.9160</b>	<b>0.0805</b>	<b>6.4405</b>	<b>0.2573</b>	<b>6.6978</b>	<b>1.7192</b>	<b>0.2538</b>	<b>1.9729</b>	<b>0.0000</b>	<b>9,405.724 7</b>	<b>9,405.724 7</b>	<b>0.4688</b>	<b>0.3885</b>	<b>9,533.205 9</b>	

## Rocklin Rezone - Parcel 3 (Mixed Use) - Placer County APCD Air District, Summer

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	94.85	18.17	81.59	80.68	0.00	99.04	79.90	0.00	99.06	93.10	100.00	-8.65	17.94	84.48	32.30	18.58

### 3.0 Construction Detail

#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	6/1/2022	6/14/2022	5	10	
2	Grading	Grading	6/15/2022	7/12/2022	5	20	
3	Paving	Paving	7/13/2022	8/9/2022	5	20	
4	Building Construction	Building Construction	8/10/2022	6/27/2023	5	230	
5	Architectural Coating	Architectural Coating	8/24/2022	7/11/2023	5	230	

Acres of Grading (Site Preparation Phase): 15

Acres of Grading (Grading Phase): 20

Acres of Paving: 3.62

Residential Indoor: 204,525; Residential Outdoor: 68,175; Non-Residential Indoor: 67,049; Non-Residential Outdoor: 22,350; Striped Parking Area: 9,648 (Architectural Coating – sqft)

#### OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37

## Rocklin Rezone - Parcel 3 (Mixed Use) - Placer County APCD Air District, Summer

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

Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	155.00	44.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	31.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Rocklin Rezone - Parcel 3 (Mixed Use) - Placer County APCD Air District, Summer

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

## **3.2 Site Preparation - 2022**

## **Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000	
Off-Road	3.1701	33.0835	19.6978	0.0380		1.6126	1.6126		1.4836	1.4836		3,686.061	3,686.061	1.1922			3,715.865
Total	3.1701	33.0835	19.6978	0.0380	19.6570	1.6126	21.2696	10.1025	1.4836	11.5860		3,686.061	3,686.061	1.1922			3,715.865

## **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	0.0000	
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Worker	0.0568	0.0311	0.4938	1.3500e-003	0.1479	7.5000e-004	0.1486	0.0392	6.9000e-004	0.0399	137.1631	137.1631	3.6500e-003	3.3600e-003	138.2566		
Total	0.0568	0.0311	0.4938	1.3500e-003	0.1479	7.5000e-004	0.1486	0.0392	6.9000e-004	0.0399	137.1631	137.1631	3.6500e-003	3.3600e-003	138.2566		

## Rocklin Rezone - Parcel 3 (Mixed Use) - Placer County APCD Air District, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****3.2 Site Preparation - 2022****Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000	
Off-Road	3.1701	33.0835	19.6978	0.0380		1.6126	1.6126		1.4836	1.4836	0.0000	3,686.061 9	3,686.061 9	1.1922		3,715.865 5	
<b>Total</b>	<b>3.1701</b>	<b>33.0835</b>	<b>19.6978</b>	<b>0.0380</b>	<b>19.6570</b>	<b>1.6126</b>	<b>21.2696</b>	<b>10.1025</b>	<b>1.4836</b>	<b>11.5860</b>	<b>0.0000</b>	<b>3,686.061 9</b>	<b>3,686.061 9</b>	<b>1.1922</b>		<b>3,715.865 5</b>	

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	
Worker	0.0568	0.0311	0.4938	1.3500e-003	0.1479	7.5000e-004	0.1486	0.0392	6.9000e-004	0.0399			137.1631	137.1631	3.6500e-003	3.3600e-003	138.2566
<b>Total</b>	<b>0.0568</b>	<b>0.0311</b>	<b>0.4938</b>	<b>1.3500e-003</b>	<b>0.1479</b>	<b>7.5000e-004</b>	<b>0.1486</b>	<b>0.0392</b>	<b>6.9000e-004</b>	<b>0.0399</b>			<b>137.1631</b>	<b>137.1631</b>	<b>3.6500e-003</b>	<b>3.3600e-003</b>	<b>138.2566</b>

## Rocklin Rezone - Parcel 3 (Mixed Use) - Placer County APCD Air District, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****3.3 Grading - 2022****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Fugitive Dust					7.0826	0.0000	7.0826	3.4247	0.0000	3.4247			0.0000			0.0000	
Off-Road	1.9486	20.8551	15.2727	0.0297		0.9409	0.9409		0.8656	0.8656		2,872.046 4	2,872.046 4	0.9289			2,895.268 4
Total	1.9486	20.8551	15.2727	0.0297	7.0826	0.9409	8.0234	3.4247	0.8656	4.2903		2,872.046 4	2,872.046 4	0.9289			2,895.268 4

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	
Worker	0.0474	0.0259	0.4115	1.1200e-003	0.1232	6.2000e-004	0.1238	0.0327	5.7000e-004	0.0333			114.3026	114.3026	3.0400e-003	2.8000e-003	115.2138
Total	0.0474	0.0259	0.4115	1.1200e-003	0.1232	6.2000e-004	0.1238	0.0327	5.7000e-004	0.0333			114.3026	114.3026	3.0400e-003	2.8000e-003	115.2138

## Rocklin Rezone - Parcel 3 (Mixed Use) - Placer County APCD Air District, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****3.3 Grading - 2022****Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Fugitive Dust					7.0826	0.0000	7.0826	3.4247	0.0000	3.4247			0.0000			0.0000	
Off-Road	1.9486	20.8551	15.2727	0.0297		0.9409	0.9409		0.8656	0.8656	0.0000	2,872.046 4	2,872.046 4	0.9289		2,895.268 4	
Total	1.9486	20.8551	15.2727	0.0297	7.0826	0.9409	8.0234	3.4247	0.8656	4.2903	0.0000	2,872.046 4	2,872.046 4	0.9289		2,895.268 4	

**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	0.0000	
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Worker	0.0474	0.0259	0.4115	1.1200e-003	0.1232	6.2000e-004	0.1238	0.0327	5.7000e-004	0.0333		114.3026	114.3026	3.0400e-003	2.8000e-003	115.2138	
Total	0.0474	0.0259	0.4115	1.1200e-003	0.1232	6.2000e-004	0.1238	0.0327	5.7000e-004	0.0333		114.3026	114.3026	3.0400e-003	2.8000e-003	115.2138	

## Rocklin Rezone - Parcel 3 (Mixed Use) - Placer County APCD Air District, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****3.4 Paving - 2022****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225	2,207.660 3	2,207.660 3	0.7140			2,225.510 4	
Paving	0.4742					0.0000	0.0000		0.0000	0.0000		0.0000				0.0000	
<b>Total</b>	<b>1.5770</b>	<b>11.1249</b>	<b>14.5805</b>	<b>0.0228</b>		<b>0.5679</b>	<b>0.5679</b>		<b>0.5225</b>	<b>0.5225</b>	<b>2,207.660 3</b>	<b>2,207.660 3</b>	<b>0.7140</b>			<b>2,225.510 4</b>	

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Worker	0.0474	0.0259	0.4115	1.1200e-003	0.1232	6.2000e-004	0.1238	0.0327	5.7000e-004	0.0333		114.3026	114.3026	3.0400e-003	2.8000e-003	115.2138	
<b>Total</b>	<b>0.0474</b>	<b>0.0259</b>	<b>0.4115</b>	<b>1.1200e-003</b>	<b>0.1232</b>	<b>6.2000e-004</b>	<b>0.1238</b>	<b>0.0327</b>	<b>5.7000e-004</b>	<b>0.0333</b>		<b>114.3026</b>	<b>114.3026</b>	<b>3.0400e-003</b>	<b>2.8000e-003</b>	<b>115.2138</b>	

## Rocklin Rezone - Parcel 3 (Mixed Use) - Placer County APCD Air District, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****3.4 Paving - 2022****Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225	0.0000	2,207.660	2,207.660	0.7140		2,225.510	
Paving	0.4742					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000	
<b>Total</b>	<b>1.5770</b>	<b>11.1249</b>	<b>14.5805</b>	<b>0.0228</b>		<b>0.5679</b>	<b>0.5679</b>		<b>0.5225</b>	<b>0.5225</b>	<b>0.0000</b>	<b>2,207.660</b>	<b>2,207.660</b>	<b>0.7140</b>		<b>2,225.510</b>	
																<b>4</b>	

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Worker	0.0474	0.0259	0.4115	1.1200e-003	0.1232	6.2000e-004	0.1238	0.0327	5.7000e-004	0.0333		114.3026	114.3026	3.0400e-003	2.8000e-003	115.2138	
<b>Total</b>	<b>0.0474</b>	<b>0.0259</b>	<b>0.4115</b>	<b>1.1200e-003</b>	<b>0.1232</b>	<b>6.2000e-004</b>	<b>0.1238</b>	<b>0.0327</b>	<b>5.7000e-004</b>	<b>0.0333</b>		<b>114.3026</b>	<b>114.3026</b>	<b>3.0400e-003</b>	<b>2.8000e-003</b>	<b>115.2138</b>	

## Rocklin Rezone - Parcel 3 (Mixed Use) - Placer County APCD Air District, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****3.5 Building Construction - 2022****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	2,554.333 6	2,554.333 6	0.6120			2,569.632 2	
Total	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	2,554.333 6	2,554.333 6	0.6120			2,569.632 2	

**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	0.0000	
Vendor	0.0836	2.2526	0.6929	9.2200e-003	0.2982	0.0216	0.3198	0.0859	0.0207	0.1066	974.1998	974.1998	4.2500e-003	0.1473	1,018.201 4		
Worker	0.4894	0.2675	4.2525	0.0116	1.2733	6.4400e-003	1.2797	0.3377	5.9300e-003	0.3437	1,181.126 4	1,181.126 4	0.0315	0.0290	1,190.542 8		
Total	0.5730	2.5201	4.9453	0.0208	1.5715	0.0281	1.5995	0.4236	0.0266	0.4502	2,155.326 2	2,155.326 2	0.0357	0.1763	2,208.744 2		

## Rocklin Rezone - Parcel 3 (Mixed Use) - Placer County APCD Air District, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****3.5 Building Construction - 2022****Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322	
Total	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322	

**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	0.0000	
Vendor	0.0836	2.2526	0.6929	9.2200e-003	0.2982	0.0216	0.3198	0.0859	0.0207	0.1066	974.1998	974.1998	4.2500e-003	0.1473	1,018.2014		
Worker	0.4894	0.2675	4.2525	0.0116	1.2733	6.4400e-003	1.2797	0.3377	5.9300e-003	0.3437	1,181.1264	1,181.1264	0.0315	0.0290	1,190.5428		
Total	0.5730	2.5201	4.9453	0.0208	1.5715	0.0281	1.5995	0.4236	0.0266	0.4502	2,155.3262	2,155.3262	0.0357	0.1763	2,208.7442		

## Rocklin Rezone - Parcel 3 (Mixed Use) - Placer County APCD Air District, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****3.5 Building Construction - 2023****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	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.209	2,555.209	0.6079		2,570.406	
Total	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.209	2,555.209	0.6079		2,570.406	
												9	9			1	

**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	0.0524	1.9340	0.6339	8.9100e-003	0.2982	0.0122	0.3103	0.0858	0.0117	0.0975		941.0402	941.0402	2.7600e-003	0.1422	983.4914	
Worker	0.4549	0.2377	3.9493	0.0112	1.2733	6.1100e-003	1.2794	0.3377	5.6200e-003	0.3434		1,150.275	1,150.275	0.0285	0.0270	1,159.017	
Total	0.5072	2.1716	4.5832	0.0202	1.5714	0.0183	1.5897	0.4236	0.0173	0.4409		2,091.315	2,091.315	0.0312	0.1692	2,142.509	
												9	9			0	

## Rocklin Rezone - Parcel 3 (Mixed Use) - Placer County APCD Air District, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****3.5 Building Construction - 2023****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	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061	
Total	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061	

**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	0.0000	
Vendor	0.0524	1.9340	0.6339	8.9100e-003	0.2982	0.0122	0.3103	0.0858	0.0117	0.0975		941.0402	941.0402	2.7600e-003	0.1422	983.4914	
Worker	0.4549	0.2377	3.9493	0.0112	1.2733	6.1100e-003	1.2794	0.3377	5.6200e-003	0.3434		1,150.2756	1,150.2756	0.0285	0.0270	1,159.0175	
Total	0.5072	2.1716	4.5832	0.0202	1.5714	0.0183	1.5897	0.4236	0.0173	0.4409		2,091.3159	2,091.3159	0.0312	0.1692	2,142.5090	

## Rocklin Rezone - Parcel 3 (Mixed Use) - Placer County APCD Air District, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****3.6 Architectural Coating - 2022****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Archit. Coating	7.4915						0.0000	0.0000		0.0000			0.0000			0.0000	
Off-Road	0.2045	1.4085	1.8136	2.9700e-003			0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062
Total	7.6961	1.4085	1.8136	2.9700e-003			0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	
Worker	0.0979	0.0535	0.8505	2.3200e-003	0.2547	1.2900e-003	0.2559	0.0676	1.1900e-003	0.0687			236.2253	236.2253	6.2900e-003	5.7900e-003	238.1086
Total	0.0979	0.0535	0.8505	2.3200e-003	0.2547	1.2900e-003	0.2559	0.0676	1.1900e-003	0.0687			236.2253	236.2253	6.2900e-003	5.7900e-003	238.1086

## Rocklin Rezone - Parcel 3 (Mixed Use) - Placer County APCD Air District, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****3.6 Architectural Coating - 2022****Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Archit. Coating	7.4915						0.0000	0.0000		0.0000			0.0000			0.0000	
Off-Road	0.2045	1.4085	1.8136	2.9700e-003			0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062
Total	7.6961	1.4085	1.8136	2.9700e-003			0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	
Worker	0.0979	0.0535	0.8505	2.3200e-003	0.2547	1.2900e-003	0.2559	0.0676	1.1900e-003	0.0687			236.2253	236.2253	6.2900e-003	5.7900e-003	238.1086
Total	0.0979	0.0535	0.8505	2.3200e-003	0.2547	1.2900e-003	0.2559	0.0676	1.1900e-003	0.0687			236.2253	236.2253	6.2900e-003	5.7900e-003	238.1086

## Rocklin Rezone - Parcel 3 (Mixed Use) - Placer County APCD Air District, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****3.6 Architectural Coating - 2023****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Archit. Coating	7.4915						0.0000	0.0000		0.0000			0.0000			0.0000	
Off-Road	0.1917	1.3030	1.8111	2.9700e-003			0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690
Total	7.6832	1.3030	1.8111	2.9700e-003			0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	
Worker	0.0910	0.0475	0.7899	2.2500e-003	0.2547	1.2200e-003	0.2559	0.0676	1.1200e-003	0.0687			230.0551	230.0551	5.6900e-003	5.3900e-003	231.8035
Total	0.0910	0.0475	0.7899	2.2500e-003	0.2547	1.2200e-003	0.2559	0.0676	1.1200e-003	0.0687			230.0551	230.0551	5.6900e-003	5.3900e-003	231.8035

## Rocklin Rezone - Parcel 3 (Mixed Use) - Placer County APCD Air District, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****3.6 Architectural Coating - 2023****Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Archit. Coating	7.4915						0.0000	0.0000		0.0000			0.0000			0.0000	
Off-Road	0.1917	1.3030	1.8111	2.9700e-003			0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690
Total	7.6832	1.3030	1.8111	2.9700e-003			0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	
Worker	0.0910	0.0475	0.7899	2.2500e-003	0.2547	1.2200e-003	0.2559	0.0676	1.1200e-003	0.0687			230.0551	230.0551	5.6900e-003	5.3900e-003	231.8035
Total	0.0910	0.0475	0.7899	2.2500e-003	0.2547	1.2200e-003	0.2559	0.0676	1.1200e-003	0.0687			230.0551	230.0551	5.6900e-003	5.3900e-003	231.8035

## Rocklin Rezone - Parcel 3 (Mixed Use) - Placer County APCD Air District, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****4.0 Operational Detail - Mobile****4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	4.2610	4.8146	33.6694	0.0680	6.4405	0.0586	6.4991	1.7192	0.0550	1.7742	6,983.816 2	6,983.816 2	0.4079	0.3443	7,096.627 9	
Unmitigated	4.2610	4.8146	33.6694	0.0680	6.4405	0.0586	6.4991	1.7192	0.0550	1.7742	6,983.816 2	6,983.816 2	0.4079	0.3443	7,096.627 9	

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated		Mitigated	
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT	Annual VMT	Annual VMT
Apartments Mid Rise	549.44	495.91	413.09	1,496,192	1,496,192	1,496,192	1,496,192
Health Club	263.44	166.96	213.84	419,083	419,083	419,083	419,083
Office Park	406.27	60.19	27.89	758,829	758,829	758,829	758,829
Parking Lot	0.00	0.00	0.00				
Total	1,219.15	723.06	654.82	2,674,103	2,674,103	2,674,103	2,674,103

**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
Apartments Mid Rise	10.80	7.30	7.50	42.60	21.00	36.40	86	11	3
Health Club	9.50	7.30	7.30	16.90	64.10	19.00	52	39	9
Office Park	9.50	7.30	7.30	33.00	48.00	19.00	82	15	3

## Rocklin Rezone - Parcel 3 (Mixed Use) - Placer County APCD Air District, Summer

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

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.463296	0.061073	0.209857	0.155594	0.036099	0.008566	0.013676	0.011873	0.000564	0.000399	0.032288	0.000990	0.005727
Health Club	0.463296	0.061073	0.209857	0.155594	0.036099	0.008566	0.013676	0.011873	0.000564	0.000399	0.032288	0.000990	0.005727
Office Park	0.463296	0.061073	0.209857	0.155594	0.036099	0.008566	0.013676	0.011873	0.000564	0.000399	0.032288	0.000990	0.005727
Parking Lot	0.463296	0.061073	0.209857	0.155594	0.036099	0.008566	0.013676	0.011873	0.000564	0.000399	0.032288	0.000990	0.005727

**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	0.0442	0.3862	0.2249	2.4100e-003			0.0305	0.0305		0.0305	481.8657	481.8657	9.2400e-003	8.8300e-003	484.7292		
NaturalGas Unmitigated	0.0442	0.3862	0.2249	2.4100e-003			0.0305	0.0305		0.0305	481.8657	481.8657	9.2400e-003	8.8300e-003	484.7292		

## Rocklin Rezone - Parcel 3 (Mixed Use) - Placer County APCD Air District, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****5.2 Energy by Land Use - NaturalGas****Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	2605.59	0.0281	0.2401	0.1022	1.5300e-003		0.0194	0.0194		0.0194	0.0194		306.5396	306.5396	5.8800e-003	5.6200e-003	308.3613
Health Club	404.384	4.3600e-003	0.0397	0.0333	2.4000e-004		3.0100e-003	3.0100e-003		3.0100e-003	3.0100e-003		47.5745	47.5745	9.1000e-004	8.7000e-004	47.8573
Office Park	1085.89	0.0117	0.1065	0.0894	6.4000e-004		8.0900e-003	8.0900e-003		8.0900e-003	8.0900e-003		127.7516	127.7516	2.4500e-003	2.3400e-003	128.5107
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0442</b>	<b>0.3862</b>	<b>0.2249</b>	<b>2.4100e-003</b>		<b>0.0305</b>	<b>0.0305</b>		<b>0.0305</b>	<b>0.0305</b>		<b>481.8657</b>	<b>481.8657</b>	<b>9.2400e-003</b>	<b>8.8300e-003</b>	<b>484.7292</b>

## Rocklin Rezone - Parcel 3 (Mixed Use) - Placer County APCD Air District, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****5.2 Energy by Land Use - NaturalGas****Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	2.60559	0.0281	0.2401	0.1022	1.5300e-003		0.0194	0.0194		0.0194	0.0194	306.5396	306.5396	5.8800e-003	5.6200e-003	308.3613	
Health Club	0.404384	4.3600e-003	0.0397	0.0333	2.4000e-004		3.0100e-003	3.0100e-003		3.0100e-003	3.0100e-003	47.5745	47.5745	9.1000e-004	8.7000e-004	47.8573	
Office Park	1.08589	0.0117	0.1065	0.0894	6.4000e-004		8.0900e-003	8.0900e-003		8.0900e-003	8.0900e-003	127.7516	127.7516	2.4500e-003	2.3400e-003	128.5107	
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
<b>Total</b>		<b>0.0442</b>	<b>0.3862</b>	<b>0.2249</b>	<b>2.4100e-003</b>		<b>0.0305</b>	<b>0.0305</b>		<b>0.0305</b>	<b>0.0305</b>	<b>481.8657</b>	<b>481.8657</b>	<b>9.2400e-003</b>	<b>8.8300e-003</b>	<b>484.7292</b>	

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

Use only Natural Gas Hearths

## Rocklin Rezone - Parcel 3 (Mixed Use) - Placer County APCD Air District, Summer

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day												lb/day				
Mitigated	4.0788	1.6044	9.0217	0.0101		0.1682	0.1682		0.1682	0.1682	0.0000	1,940.042	1,940.042	0.0516	0.0353	1,951.848	
Unmitigated	158.4722	3.1151	199.1798	0.3461		26.7982	26.7982		26.7982	26.7982	2,804.944	1,191.454	3,996.399	2.6032	0.2206	4,127.226	

**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	0.4721					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000	
Consumer Products	3.1749					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000	
Hearth	154.5699	3.0186	190.7997	0.3457		26.7519	26.7519		26.7519	26.7519	2,804.944	1,176.352	3,981.297	2.5885	0.2206	4,111.758	
Landscaping	0.2553	0.0965	8.3801	4.4000e-004		0.0463	0.0463		0.0463	0.0463			15.1015	15.1015	0.0147		15.4687
<b>Total</b>	<b>158.4722</b>	<b>3.1151</b>	<b>199.1798</b>	<b>0.3461</b>		<b>26.7982</b>	<b>26.7982</b>		<b>26.7982</b>	<b>26.7982</b>	<b>2,804.944</b>	<b>1,191.454</b>	<b>3,996.399</b>	<b>2.6032</b>	<b>0.2206</b>	<b>4,127.226</b>	
											<b>8</b>	<b>5</b>	<b>3</b>			<b>6</b>	

## Rocklin Rezone - Parcel 3 (Mixed Use) - Placer County APCD Air District, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****6.2 Area by SubCategory****Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
SubCategory	lb/day										lb/day						
Architectural Coating	0.4721						0.0000	0.0000		0.0000			0.0000			0.0000	
Consumer Products	3.1749						0.0000	0.0000		0.0000			0.0000			0.0000	
Hearth	0.1765	1.5079	0.6417	9.6200e-003			0.1219	0.1219		0.1219	0.1219	0.0000	1,924.9412	1,924.9412	0.0369	0.0353	1,936.3801
Landscaping	0.2553	0.0965	8.3801	4.4000e-004			0.0463	0.0463		0.0463	0.0463		15.1015	15.1015	0.0147		15.4687
<b>Total</b>	<b>4.0787</b>	<b>1.6044</b>	<b>9.0217</b>	<b>0.0101</b>			<b>0.1682</b>	<b>0.1682</b>		<b>0.1682</b>	<b>0.1682</b>	<b>0.0000</b>	<b>1,940.0427</b>	<b>1,940.0427</b>	<b>0.0516</b>	<b>0.0353</b>	<b>1,951.8488</b>

**7.0 Water Detail****7.1 Mitigation Measures Water**

Apply Water Conservation Strategy

## Rocklin Rezone - Parcel 3 (Mixed Use) - Placer County APCD Air District, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****8.0 Waste Detail**

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**8.1 Mitigation Measures Waste****9.0 Operational Offroad**

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

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**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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**11.0 Vegetation**

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## Rocklin Rezone - Parcel 3 (Mixed Use) - Placer County APCD Air District, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****Rocklin Rezone - Parcel 3 (Mixed Use)**

Placer County APCD Air District, Winter

**1.0 Project Characteristics****1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Office Park	36.70	1000sqft	0.84	36,699.00	0
Parking Lot	402.00	Space	3.62	160,800.00	0
Health Club	8.00	1000sqft	0.18	8,000.00	0
Apartments Mid Rise	101.00	Dwelling Unit	2.10	101,000.00	289

**1.2 Other Project Characteristics**

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	74
Climate Zone	2			Operational Year	2023
Utility Company	Pacific Gas and Electric Company				
CO2 Intensity (lb/MWhr)	203.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

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

Project Characteristics -

Land Use - Lot acreage adjusted to be consistent with City's development assumptions.

Construction Phase - Architectural coating assumed to start two weeks after building construction and last for the same duration.

Water Mitigation -

Area Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	230.00
tblLandUse	LandUseSquareFeet	36,700.00	36,699.00

Rocklin Rezone - Parcel 3 (Mixed Use) - Placer County APCD Air District, Winter

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

tblLandUse	:	LotAcreage	:	2.66	:	2.10
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**2.0 Emissions Summary**

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## Rocklin Rezone - Parcel 3 (Mixed Use) - Placer County APCD Air District, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****2.1 Overall Construction (Maximum Daily Emission)****Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Year	lb/day										lb/day						
2022	10.0284	33.1223	23.5361	0.0517	19.8049	1.6133	21.4182	10.1417	1.4843	11.6259	0.0000	5,088.1768	5,088.1768	1.1964	0.1879	5,161.1217	
2023	9.8124	18.1228	23.0338	0.0510	1.8261	0.7901	2.6162	0.4911	0.7477	1.2388	0.0000	5,023.8053	5,023.8053	0.6675	0.1801	5,094.1565	
Maximum	10.0284	33.1223	23.5361	0.0517	19.8049	1.6133	21.4182	10.1417	1.4843	11.6259	0.0000	5,088.1768	5,088.1768	1.1964	0.1879	5,161.1217	

**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						
2022	10.0284	33.1223	23.5361	0.0517	19.8049	1.6133	21.4182	10.1417	1.4843	11.6259	0.0000	5,088.1768	5,088.1768	1.1964	0.1879	5,161.1217	
2023	9.8124	18.1228	23.0338	0.0510	1.8261	0.7901	2.6162	0.4911	0.7477	1.2388	0.0000	5,023.8053	5,023.8053	0.6675	0.1801	5,094.1565	
Maximum	10.0284	33.1223	23.5361	0.0517	19.8049	1.6133	21.4182	10.1417	1.4843	11.6259	0.0000	5,088.1768	5,088.1768	1.1964	0.1879	5,161.1217	

Rocklin Rezone - Parcel 3 (Mixed Use) - Placer County APCD Air District, Winter

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

## Rocklin Rezone - Parcel 3 (Mixed Use) - Placer County APCD Air District, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****2.2 Overall Operational****Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Area	158.4722	3.1151	199.1798	0.3461		26.7982	26.7982		26.7982	26.7982	2,804.944 8	1,191.454 5	3,996.399 3	2.6032	0.2206	4,127.226 6	
Energy	0.0442	0.3862	0.2249	2.4100e-003		0.0305	0.0305		0.0305	0.0305	481.8657	481.8657	9.2400e-003	8.8300e-003	484.7292		
Mobile	3.5547	5.5434	35.2865	0.0632	6.4405	0.0587	6.4992	1.7192	0.0551	1.7742	6,490.004 2	6,490.004 2	0.4762	0.3760	6,613.954 2		
<b>Total</b>	<b>162.0711</b>	<b>9.0447</b>	<b>234.6913</b>	<b>0.4117</b>	<b>6.4405</b>	<b>26.8874</b>	<b>33.3279</b>	<b>1.7192</b>	<b>26.8838</b>	<b>28.6030</b>	<b>2,804.944 8</b>	<b>8,163.324 4</b>	<b>10,968.26 93</b>	<b>3.0886</b>	<b>0.6055</b>	<b>11,225.91 00</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	4.0788	1.6044	9.0217	0.0101		0.1682	0.1682		0.1682	0.1682	0.0000	1,940.042 7	1,940.042 7	0.0516	0.0353	1,951.848 8	
Energy	0.0442	0.3862	0.2249	2.4100e-003		0.0305	0.0305		0.0305	0.0305	481.8657	481.8657	9.2400e-003	8.8300e-003	484.7292		
Mobile	3.5547	5.5434	35.2865	0.0632	6.4405	0.0587	6.4992	1.7192	0.0551	1.7742	6,490.004 2	6,490.004 2	0.4762	0.3760	6,613.954 2		
<b>Total</b>	<b>7.6777</b>	<b>7.5340</b>	<b>44.5332</b>	<b>0.0756</b>	<b>6.4405</b>	<b>0.2574</b>	<b>6.6979</b>	<b>1.7192</b>	<b>0.2538</b>	<b>1.9729</b>	<b>0.0000</b>	<b>8,911.912 7</b>	<b>8,911.912 7</b>	<b>0.5370</b>	<b>0.4201</b>	<b>9,050.532 2</b>	

## Rocklin Rezone - Parcel 3 (Mixed Use) - Placer County APCD Air District, Winter

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	95.26	16.70	81.02	81.63	0.00	99.04	79.90	0.00	99.06	93.10	100.00	-9.17	18.75	82.61	30.61	19.38

**3.0 Construction Detail****Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	6/1/2022	6/14/2022	5	10	
2	Grading	Grading	6/15/2022	7/12/2022	5	20	
3	Paving	Paving	7/13/2022	8/9/2022	5	20	
4	Building Construction	Building Construction	8/10/2022	6/27/2023	5	230	
5	Architectural Coating	Architectural Coating	8/24/2022	7/11/2023	5	230	

Acres of Grading (Site Preparation Phase): 15

Acres of Grading (Grading Phase): 20

Acres of Paving: 3.62

Residential Indoor: 204,525; Residential Outdoor: 68,175; Non-Residential Indoor: 67,049; Non-Residential Outdoor: 22,350; Striped Parking Area: 9,648 (Architectural Coating – sqft)

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37

## Rocklin Rezone - Parcel 3 (Mixed Use) - Placer County APCD Air District, Winter

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

Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	155.00	44.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	31.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

## Rocklin Rezone - Parcel 3 (Mixed Use) - Placer County APCD Air District, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****3.2 Site Preparation - 2022****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000	
Off-Road	3.1701	33.0835	19.6978	0.0380		1.6126	1.6126		1.4836	1.4836		3,686.061 9	3,686.061 9	1.1922		3,715.865 5	
<b>Total</b>	<b>3.1701</b>	<b>33.0835</b>	<b>19.6978</b>	<b>0.0380</b>	<b>19.6570</b>	<b>1.6126</b>	<b>21.2696</b>	<b>10.1025</b>	<b>1.4836</b>	<b>11.5860</b>		<b>3,686.061 9</b>	<b>3,686.061 9</b>	<b>1.1922</b>		<b>3,715.865 5</b>	

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	
Worker	0.0528	0.0388	0.4489	1.2100e-003	0.1479	7.5000e-004	0.1486	0.0392	6.9000e-004	0.0399			123.5870	123.5870	4.2800e-003	3.9000e-003	124.8549
<b>Total</b>	<b>0.0528</b>	<b>0.0388</b>	<b>0.4489</b>	<b>1.2100e-003</b>	<b>0.1479</b>	<b>7.5000e-004</b>	<b>0.1486</b>	<b>0.0392</b>	<b>6.9000e-004</b>	<b>0.0399</b>			<b>123.5870</b>	<b>123.5870</b>	<b>4.2800e-003</b>	<b>3.9000e-003</b>	<b>124.8549</b>

## Rocklin Rezone - Parcel 3 (Mixed Use) - Placer County APCD Air District, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****3.2 Site Preparation - 2022****Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000	
Off-Road	3.1701	33.0835	19.6978	0.0380		1.6126	1.6126		1.4836	1.4836	0.0000	3,686.061 9	3,686.061 9	1.1922		3,715.865 5	
<b>Total</b>	<b>3.1701</b>	<b>33.0835</b>	<b>19.6978</b>	<b>0.0380</b>	<b>19.6570</b>	<b>1.6126</b>	<b>21.2696</b>	<b>10.1025</b>	<b>1.4836</b>	<b>11.5860</b>	<b>0.0000</b>	<b>3,686.061 9</b>	<b>3,686.061 9</b>	<b>1.1922</b>		<b>3,715.865 5</b>	

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	
Worker	0.0528	0.0388	0.4489	1.2100e-003	0.1479	7.5000e-004	0.1486	0.0392	6.9000e-004	0.0399			123.5870	123.5870	4.2800e-003	3.9000e-003	124.8549
<b>Total</b>	<b>0.0528</b>	<b>0.0388</b>	<b>0.4489</b>	<b>1.2100e-003</b>	<b>0.1479</b>	<b>7.5000e-004</b>	<b>0.1486</b>	<b>0.0392</b>	<b>6.9000e-004</b>	<b>0.0399</b>			<b>123.5870</b>	<b>123.5870</b>	<b>4.2800e-003</b>	<b>3.9000e-003</b>	<b>124.8549</b>

Rocklin Rezone - Parcel 3 (Mixed Use) - Placer County APCD Air District, Winter

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

### **3.3 Grading - 2022**

## **Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Fugitive Dust					7.0826	0.0000	7.0826	3.4247	0.0000	3.4247			0.0000			0.0000	
Off-Road	1.9486	20.8551	15.2727	0.0297		0.9409	0.9409		0.8656	0.8656		2,872.046	2,872.046	0.9289		2,895.268	
Total	1.9486	20.8551	15.2727	0.0297	7.0826	0.9409	8.0234	3.4247	0.8656	4.2903		2,872.046	2,872.046	0.9289		2,895.268	

## **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	0.0000	
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Worker	0.0440	0.0323	0.3741	1.0100e-003	0.1232	6.2000e-004	0.1238	0.0327	5.7000e-004	0.0333	102.9891	102.9891	3.5700e-003	3.2500e-003	104.0458		
Total	0.0440	0.0323	0.3741	1.0100e-003	0.1232	6.2000e-004	0.1238	0.0327	5.7000e-004	0.0333	102.9891	102.9891	3.5700e-003	3.2500e-003	104.0458		

## Rocklin Rezone - Parcel 3 (Mixed Use) - Placer County APCD Air District, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****3.3 Grading - 2022****Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Fugitive Dust					7.0826	0.0000	7.0826	3.4247	0.0000	3.4247			0.0000			0.0000	
Off-Road	1.9486	20.8551	15.2727	0.0297		0.9409	0.9409		0.8656	0.8656	0.0000	2,872.046 4	2,872.046 4	0.9289		2,895.268 4	
Total	1.9486	20.8551	15.2727	0.0297	7.0826	0.9409	8.0234	3.4247	0.8656	4.2903	0.0000	2,872.046 4	2,872.046 4	0.9289		2,895.268 4	

**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	0.0000	
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Worker	0.0440	0.0323	0.3741	1.0100e-003	0.1232	6.2000e-004	0.1238	0.0327	5.7000e-004	0.0333		102.9891	102.9891	3.5700e-003	3.2500e-003	104.0458	
Total	0.0440	0.0323	0.3741	1.0100e-003	0.1232	6.2000e-004	0.1238	0.0327	5.7000e-004	0.0333		102.9891	102.9891	3.5700e-003	3.2500e-003	104.0458	

## Rocklin Rezone - Parcel 3 (Mixed Use) - Placer County APCD Air District, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****3.4 Paving - 2022****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225	2,207.660 3	2,207.660 3	0.7140			2,225.510 4
Paving	0.4742					0.0000	0.0000		0.0000	0.0000		0.0000				0.0000
<b>Total</b>	<b>1.5770</b>	<b>11.1249</b>	<b>14.5805</b>	<b>0.0228</b>		<b>0.5679</b>	<b>0.5679</b>		<b>0.5225</b>	<b>0.5225</b>	<b>2,207.660 3</b>	<b>2,207.660 3</b>	<b>0.7140</b>			<b>2,225.510 4</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0440	0.0323	0.3741	1.0100e-003	0.1232	6.2000e-004	0.1238	0.0327	5.7000e-004	0.0333	102.9891	102.9891	3.5700e-003	3.2500e-003	104.0458	
<b>Total</b>	<b>0.0440</b>	<b>0.0323</b>	<b>0.3741</b>	<b>1.0100e-003</b>	<b>0.1232</b>	<b>6.2000e-004</b>	<b>0.1238</b>	<b>0.0327</b>	<b>5.7000e-004</b>	<b>0.0333</b>	<b>102.9891</b>	<b>102.9891</b>	<b>3.5700e-003</b>	<b>3.2500e-003</b>	<b>104.0458</b>	

## Rocklin Rezone - Parcel 3 (Mixed Use) - Placer County APCD Air District, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****3.4 Paving - 2022****Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225	0.0000	2,207.660	2,207.660	0.7140		2,225.510	
Paving	0.4742					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000	
<b>Total</b>	<b>1.5770</b>	<b>11.1249</b>	<b>14.5805</b>	<b>0.0228</b>		<b>0.5679</b>	<b>0.5679</b>		<b>0.5225</b>	<b>0.5225</b>	<b>0.0000</b>	<b>2,207.660</b>	<b>2,207.660</b>	<b>0.7140</b>		<b>2,225.510</b>	
																<b>4</b>	

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Worker	0.0440	0.0323	0.3741	1.0100e-003	0.1232	6.2000e-004	0.1238	0.0327	5.7000e-004	0.0333		102.9891	102.9891	3.5700e-003	3.2500e-003	104.0458	
<b>Total</b>	<b>0.0440</b>	<b>0.0323</b>	<b>0.3741</b>	<b>1.0100e-003</b>	<b>0.1232</b>	<b>6.2000e-004</b>	<b>0.1238</b>	<b>0.0327</b>	<b>5.7000e-004</b>	<b>0.0333</b>		<b>102.9891</b>	<b>102.9891</b>	<b>3.5700e-003</b>	<b>3.2500e-003</b>	<b>104.0458</b>	

## Rocklin Rezone - Parcel 3 (Mixed Use) - Placer County APCD Air District, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****3.5 Building Construction - 2022****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	2,554.333 6	2,554.333 6	0.6120			2,569.632 2	
<b>Total</b>	<b>1.7062</b>	<b>15.6156</b>	<b>16.3634</b>	<b>0.0269</b>		<b>0.8090</b>	<b>0.8090</b>		<b>0.7612</b>	<b>0.7612</b>	<b>2,554.333 6</b>	<b>2,554.333 6</b>	<b>0.6120</b>			<b>2,569.632 2</b>	

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Vendor	0.0805	2.4146	0.7205	9.2300e-003	0.2982	0.0217	0.3199	0.0859	0.0208	0.1066	975.3298	975.3298	4.1000e-003	0.1476	1,019.415 7		
Worker	0.4548	0.3339	3.8655	0.0105	1.2733	6.4400e-003	1.2797	0.3377	5.9300e-003	0.3437	1,064.221 1	1,064.221 1	0.0368	0.0336	1,075.139 7		
<b>Total</b>	<b>0.5352</b>	<b>2.7485</b>	<b>4.5860</b>	<b>0.0197</b>	<b>1.5715</b>	<b>0.0282</b>	<b>1.5996</b>	<b>0.4236</b>	<b>0.0267</b>	<b>0.4503</b>	<b>2,039.550 9</b>	<b>2,039.550 9</b>	<b>0.0409</b>	<b>0.1812</b>	<b>2,094.555 4</b>		

## Rocklin Rezone - Parcel 3 (Mixed Use) - Placer County APCD Air District, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****3.5 Building Construction - 2022****Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322	
<b>Total</b>	<b>1.7062</b>	<b>15.6156</b>	<b>16.3634</b>	<b>0.0269</b>		<b>0.8090</b>	<b>0.8090</b>		<b>0.7612</b>	<b>0.7612</b>	<b>0.0000</b>	<b>2,554.3336</b>	<b>2,554.3336</b>	<b>0.6120</b>		<b>2,569.6322</b>	

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Vendor	0.0805	2.4146	0.7205	9.2300e-003	0.2982	0.0217	0.3199	0.0859	0.0208	0.1066	975.3298	975.3298	4.1000e-003	0.1476	1,019.4157		
Worker	0.4548	0.3339	3.8655	0.0105	1.2733	6.4400e-003	1.2797	0.3377	5.9300e-003	0.3437	1,064.2211	1,064.2211	0.0368	0.0336	1,075.1397		
<b>Total</b>	<b>0.5352</b>	<b>2.7485</b>	<b>4.5860</b>	<b>0.0197</b>	<b>1.5715</b>	<b>0.0282</b>	<b>1.5996</b>	<b>0.4236</b>	<b>0.0267</b>	<b>0.4503</b>	<b>2,039.5509</b>	<b>2,039.5509</b>	<b>0.0409</b>	<b>0.1812</b>	<b>2,094.5554</b>		

## Rocklin Rezone - Parcel 3 (Mixed Use) - Placer County APCD Air District, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****3.5 Building Construction - 2023****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	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.209	2,555.209	0.6079		2,570.406	
Total	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.209	2,555.209	0.6079		2,570.406	
												9	9			1	

**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	0.0000	
Vendor	0.0486	2.0792	0.6571	8.9300e-003	0.2982	0.0123	0.3104	0.0858	0.0117	0.0976		943.1149	943.1149	2.5900e-003	0.1427	985.6900	
Worker	0.4232	0.2964	3.6014	0.0101	1.2733	6.1100e-003	1.2794	0.3377	5.6200e-003	0.3434		1,036.693	1,036.693	0.0335	0.0312	1,046.826	
Total	0.4718	2.3757	4.2584	0.0191	1.5714	0.0184	1.5898	0.4236	0.0173	0.4409		1,979.808	1,979.808	0.0361	0.1738	2,032.516	
												6	6			2	

## Rocklin Rezone - Parcel 3 (Mixed Use) - Placer County APCD Air District, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****3.5 Building Construction - 2023****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	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	2,555.209 9	2,555.209 9	0.6079		2,570.406 1	
<b>Total</b>	<b>1.5728</b>	<b>14.3849</b>	<b>16.2440</b>	<b>0.0269</b>		<b>0.6997</b>	<b>0.6997</b>		<b>0.6584</b>	<b>0.6584</b>	<b>0.0000</b>	<b>2,555.209 9</b>	<b>2,555.209 9</b>	<b>0.6079</b>		<b>2,570.406 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	0.0000	
Vendor	0.0486	2.0792	0.6571	8.9300e-003	0.2982	0.0123	0.3104	0.0858	0.0117	0.0976		943.1149	943.1149	2.5900e-003	0.1427	985.6900	
Worker	0.4232	0.2964	3.6014	0.0101	1.2733	6.1100e-003	1.2794	0.3377	5.6200e-003	0.3434		1,036.693 7	1,036.693 7	0.0335	0.0312	1,046.826 2	
<b>Total</b>	<b>0.4718</b>	<b>2.3757</b>	<b>4.2584</b>	<b>0.0191</b>	<b>1.5714</b>	<b>0.0184</b>	<b>1.5898</b>	<b>0.4236</b>	<b>0.0173</b>	<b>0.4409</b>		<b>1,979.808 6</b>	<b>1,979.808 6</b>	<b>0.0361</b>	<b>0.1738</b>	<b>2,032.516 2</b>	

## Rocklin Rezone - Parcel 3 (Mixed Use) - Placer County APCD Air District, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****3.6 Architectural Coating - 2022****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Archit. Coating	7.4915						0.0000	0.0000		0.0000			0.0000			0.0000	
Off-Road	0.2045	1.4085	1.8136	2.9700e-003			0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062
Total	7.6961	1.4085	1.8136	2.9700e-003			0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	
Worker	0.0910	0.0668	0.7731	2.0900e-003	0.2547	1.2900e-003	0.2559	0.0676	1.1900e-003	0.0687			212.8442	212.8442	7.3700e-003	6.7100e-003	215.0279
Total	0.0910	0.0668	0.7731	2.0900e-003	0.2547	1.2900e-003	0.2559	0.0676	1.1900e-003	0.0687			212.8442	212.8442	7.3700e-003	6.7100e-003	215.0279

## Rocklin Rezone - Parcel 3 (Mixed Use) - Placer County APCD Air District, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****3.6 Architectural Coating - 2022****Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Archit. Coating	7.4915						0.0000	0.0000		0.0000			0.0000			0.0000	
Off-Road	0.2045	1.4085	1.8136	2.9700e-003			0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062
Total	7.6961	1.4085	1.8136	2.9700e-003			0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	
Worker	0.0910	0.0668	0.7731	2.0900e-003	0.2547	1.2900e-003	0.2559	0.0676	1.1900e-003	0.0687			212.8442	212.8442	7.3700e-003	6.7100e-003	215.0279
Total	0.0910	0.0668	0.7731	2.0900e-003	0.2547	1.2900e-003	0.2559	0.0676	1.1900e-003	0.0687			212.8442	212.8442	7.3700e-003	6.7100e-003	215.0279

## Rocklin Rezone - Parcel 3 (Mixed Use) - Placer County APCD Air District, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****3.6 Architectural Coating - 2023****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Archit. Coating	7.4915						0.0000	0.0000		0.0000			0.0000			0.0000	
Off-Road	0.1917	1.3030	1.8111	2.9700e-003			0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690
Total	7.6832	1.3030	1.8111	2.9700e-003			0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	
Worker	0.0846	0.0593	0.7203	2.0300e-003	0.2547	1.2200e-003	0.2559	0.0676	1.1200e-003	0.0687			207.3387	207.3387	6.7000e-003	6.2400e-003	209.3652
Total	0.0846	0.0593	0.7203	2.0300e-003	0.2547	1.2200e-003	0.2559	0.0676	1.1200e-003	0.0687			207.3387	207.3387	6.7000e-003	6.2400e-003	209.3652

## Rocklin Rezone - Parcel 3 (Mixed Use) - Placer County APCD Air District, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****3.6 Architectural Coating - 2023****Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Archit. Coating	7.4915						0.0000	0.0000		0.0000			0.0000			0.0000	
Off-Road	0.1917	1.3030	1.8111	2.9700e-003			0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690
Total	7.6832	1.3030	1.8111	2.9700e-003			0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	
Worker	0.0846	0.0593	0.7203	2.0300e-003	0.2547	1.2200e-003	0.2559	0.0676	1.1200e-003	0.0687			207.3387	207.3387	6.7000e-003	6.2400e-003	209.3652
Total	0.0846	0.0593	0.7203	2.0300e-003	0.2547	1.2200e-003	0.2559	0.0676	1.1200e-003	0.0687			207.3387	207.3387	6.7000e-003	6.2400e-003	209.3652

## Rocklin Rezone - Parcel 3 (Mixed Use) - Placer County APCD Air District, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****4.0 Operational Detail - Mobile****4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	3.5547	5.5434	35.2865	0.0632	6.4405	0.0587	6.4992	1.7192	0.0551	1.7742	6,490.004 2	6,490.004 2	0.4762	0.3760	6,613.954 2	
Unmitigated	3.5547	5.5434	35.2865	0.0632	6.4405	0.0587	6.4992	1.7192	0.0551	1.7742	6,490.004 2	6,490.004 2	0.4762	0.3760	6,613.954 2	

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated		Mitigated	
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT	Annual VMT	Annual VMT
Apartments Mid Rise	549.44	495.91	413.09	1,496,192	1,496,192	1,496,192	1,496,192
Health Club	263.44	166.96	213.84	419,083	419,083	419,083	419,083
Office Park	406.27	60.19	27.89	758,829	758,829	758,829	758,829
Parking Lot	0.00	0.00	0.00				
Total	1,219.15	723.06	654.82	2,674,103	2,674,103	2,674,103	2,674,103

**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
Apartments Mid Rise	10.80	7.30	7.50	42.60	21.00	36.40	86	11	3
Health Club	9.50	7.30	7.30	16.90	64.10	19.00	52	39	9
Office Park	9.50	7.30	7.30	33.00	48.00	19.00	82	15	3

## Rocklin Rezone - Parcel 3 (Mixed Use) - Placer County APCD Air District, Winter

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

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.463296	0.061073	0.209857	0.155594	0.036099	0.008566	0.013676	0.011873	0.000564	0.000399	0.032288	0.000990	0.005727
Health Club	0.463296	0.061073	0.209857	0.155594	0.036099	0.008566	0.013676	0.011873	0.000564	0.000399	0.032288	0.000990	0.005727
Office Park	0.463296	0.061073	0.209857	0.155594	0.036099	0.008566	0.013676	0.011873	0.000564	0.000399	0.032288	0.000990	0.005727
Parking Lot	0.463296	0.061073	0.209857	0.155594	0.036099	0.008566	0.013676	0.011873	0.000564	0.000399	0.032288	0.000990	0.005727

**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	0.0442	0.3862	0.2249	2.4100e-003			0.0305	0.0305		0.0305	481.8657	481.8657	9.2400e-003	8.8300e-003	484.7292		
NaturalGas Unmitigated	0.0442	0.3862	0.2249	2.4100e-003			0.0305	0.0305		0.0305	481.8657	481.8657	9.2400e-003	8.8300e-003	484.7292		

## Rocklin Rezone - Parcel 3 (Mixed Use) - Placer County APCD Air District, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****5.2 Energy by Land Use - NaturalGas****Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	2605.59	0.0281	0.2401	0.1022	1.5300e-003		0.0194	0.0194		0.0194	0.0194		306.5396	306.5396	5.8800e-003	5.6200e-003	308.3613
Health Club	404.384	4.3600e-003	0.0397	0.0333	2.4000e-004		3.0100e-003	3.0100e-003		3.0100e-003	3.0100e-003		47.5745	47.5745	9.1000e-004	8.7000e-004	47.8573
Office Park	1085.89	0.0117	0.1065	0.0894	6.4000e-004		8.0900e-003	8.0900e-003		8.0900e-003	8.0900e-003		127.7516	127.7516	2.4500e-003	2.3400e-003	128.5107
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0442</b>	<b>0.3862</b>	<b>0.2249</b>	<b>2.4100e-003</b>		<b>0.0305</b>	<b>0.0305</b>		<b>0.0305</b>	<b>0.0305</b>		<b>481.8657</b>	<b>481.8657</b>	<b>9.2400e-003</b>	<b>8.8300e-003</b>	<b>484.7292</b>

## Rocklin Rezone - Parcel 3 (Mixed Use) - Placer County APCD Air District, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****5.2 Energy by Land Use - NaturalGas****Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	2.60559	0.0281	0.2401	0.1022	1.5300e-003		0.0194	0.0194		0.0194	0.0194	306.5396	306.5396	5.8800e-003	5.6200e-003	308.3613	
Health Club	0.404384	4.3600e-003	0.0397	0.0333	2.4000e-004		3.0100e-003	3.0100e-003		3.0100e-003	3.0100e-003	47.5745	47.5745	9.1000e-004	8.7000e-004	47.8573	
Office Park	1.08589	0.0117	0.1065	0.0894	6.4000e-004		8.0900e-003	8.0900e-003		8.0900e-003	8.0900e-003	127.7516	127.7516	2.4500e-003	2.3400e-003	128.5107	
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
<b>Total</b>		<b>0.0442</b>	<b>0.3862</b>	<b>0.2249</b>	<b>2.4100e-003</b>		<b>0.0305</b>	<b>0.0305</b>		<b>0.0305</b>	<b>0.0305</b>	<b>481.8657</b>	<b>481.8657</b>	<b>9.2400e-003</b>	<b>8.8300e-003</b>	<b>484.7292</b>	

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

Use only Natural Gas Hearths

## Rocklin Rezone - Parcel 3 (Mixed Use) - Placer County APCD Air District, Winter

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e				
Category	lb/day										lb/day									
Mitigated	4.0788	1.6044	9.0217	0.0101		0.1682	0.1682		0.1682	0.1682	0.0000	1,940.042	7	1,940.042	7	0.0516	0.0353	1,951.848	8	
Unmitigated	158.4722	3.1151	199.1798	0.3461		26.7982	26.7982		26.7982	26.7982	2,804.944	8	1,191.454	5	3,996.399	3	2.6032	0.2206	4,127.226	6

## 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	0.4721					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000	
Consumer Products	3.1749					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000	
Hearth	154.5699	3.0186	190.7997	0.3457		26.7519	26.7519		26.7519	2,804.9448	1,176.3529	3,981.2978	2.5885	0.2206	4,111.7580		
Landscaping	0.2553	0.0965	8.3801	4.4000e-004		0.0463	0.0463		0.0463	0.0463		15.1015	15.1015	0.0147		15.4687	
<b>Total</b>	<b>158.4722</b>	<b>3.1151</b>	<b>199.1798</b>	<b>0.3461</b>		<b>26.7982</b>	<b>26.7982</b>		<b>26.7982</b>	<b>2,804.9448</b>	<b>1,191.4545</b>	<b>3,996.3993</b>	<b>2.6032</b>	<b>0.2206</b>	<b>4,127.2266</b>		

## Rocklin Rezone - Parcel 3 (Mixed Use) - Placer County APCD Air District, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****6.2 Area by SubCategory****Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
SubCategory	lb/day										lb/day						
Architectural Coating	0.4721						0.0000	0.0000		0.0000			0.0000			0.0000	
Consumer Products	3.1749						0.0000	0.0000		0.0000			0.0000			0.0000	
Hearth	0.1765	1.5079	0.6417	9.6200e-003			0.1219	0.1219		0.1219	0.1219	0.0000	1,924.9412	1,924.9412	0.0369	0.0353	1,936.3801
Landscaping	0.2553	0.0965	8.3801	4.4000e-004			0.0463	0.0463		0.0463	0.0463		15.1015	15.1015	0.0147		15.4687
<b>Total</b>	<b>4.0787</b>	<b>1.6044</b>	<b>9.0217</b>	<b>0.0101</b>			<b>0.1682</b>	<b>0.1682</b>		<b>0.1682</b>	<b>0.1682</b>	<b>0.0000</b>	<b>1,940.0427</b>	<b>1,940.0427</b>	<b>0.0516</b>	<b>0.0353</b>	<b>1,951.8488</b>

**7.0 Water Detail****7.1 Mitigation Measures Water**

Apply Water Conservation Strategy

Rocklin Rezone - Parcel 3 (Mixed Use) - Placer County APCD Air District, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****8.0 Waste Detail**

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**8.1 Mitigation Measures Waste****9.0 Operational Offroad**

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

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**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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**11.0 Vegetation**

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## **Appendix B**

### **Construction HRA Results**

## BREEZE AERMOD Model Results

### Max. Annual ( 4 YEARS) Results of Pollutant: PM25 (ug/m\*\*3)

Group ID	High	Avg. Conc.	UTM		Elev.	Hill Ht.	Flag Ht.	Rec. Type	Grid ID
			East (m)	North (m)	(m)	(m)	(m)		
ALL	1ST	0.02890	648318.40	4297023.60	0.00	0.00	1.80	DC	
	2ND	0.02831	648323.40	4297018.60	0.00	0.00	1.80	DC	
	3RD	0.02797	648313.40	4297023.60	0.00	0.00	1.80	DC	
	4TH	0.02783	648338.40	4297008.60	0.00	0.00	1.80	DC	
	5TH	0.02770	648328.40	4297013.60	0.00	0.00	1.80	DC	
	6TH	0.02744	648318.40	4297018.60	0.00	0.00	1.80	DC	
	7TH	0.02715	648343.40	4297003.60	0.00	0.00	1.80	DC	
	8TH	0.02708	648333.40	4297008.60	0.00	0.00	1.80	DC	
	9TH	0.02706	648308.40	4297023.60	0.00	0.00	1.80	DC	
	10TH	0.02689	648323.40	4297013.60	0.00	0.00	1.80	DC	

### Highest Results of Pollutant: PM25

Avg. Per.	Grp ID	High	Type	Val	Units	Date	UTM		Elev.	Hill Ht.	Flag Ht.	Rec. Type	Grid ID
						YYMMDDHH	East (m)	North (m)	(m)	(m)	(m)		
1-HR	ALL	1ST	Avg. Conc.	3.31747	ug/m**3	15010109	648208.20	4297073.00	0.00	0.00	1.80	DC	

### Summary of Total Messages

#	Message Type
0	Fatal Error Message(s)
7	Warning Message(s)
996	Informational Message(s)
43680	Hours Were Processed
452	Calm Hours Identified
544	Missing Hours Identified ( 1.25 Percent)

### Error & Warning Messages

Msg. Type	Pathway	Ref. #	Description
WARNING	CO	<a href="#">W276</a>	Special proc for 1h-NO2/SO2 24hPM25 NAAQS disabled PM25 H1H
WARNING	CO	<a href="#">W363</a>	Multiyr 24h/Ann PM25 processing not applicable for PM25 H1H

WARNING	ME	<a href="#">W186</a>	THRESH_1MIN 1-min ASOS wind speed threshold used 0.50
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[www.breeze-software.com](http://www.breeze-software.com)

# AERMOD Model Options

## Model Options

Pathway	Keyword	Description	Value
CO	TITLEONE	Project title 1	Rocklin Rezone Parcel 3
CO	TITLETWO	Project title 2	
CO	MODELOPT	Model options	DFAULT,CONC,NODRYDPLT,NOWETDPLT
CO	AVERTIME	Averaging times	1,24,ANNUAL
CO	URBANOPT	Urban options	
CO	POLLUTID	Pollutant ID	PM25 H1H
CO	HALFLIFE	Half life	
CO	DCAYCOEF	Decay coefficient	
CO	FLAGPOLE	Flagpole receptor heights	1.8
CO	RUNORNOT	Run or Not	RUN
CO	EVENTFIL	Event file	F
CO	SAVEFILE	Save file	F
CO	INITFILE	Initialization file	
CO	MULTYEAR	Multiple year option	N/A
CO	DEBUGOPT	Debug options	N/A
CO	ERRORFIL	Error file	F
SO	ELEVUNIT	Elevation units	METERS
SO	EMISUNIT	Emission units	N/A
RE	ELEVUNIT	Elevation units	METERS
ME	SURFFILE	Surface met file	C:\Users\bshea\Desktop\METEOR~1\SACINT~1.SFC
ME	PROFFILE	Profile met file	C:\Users\bshea\Desktop\METEOR~1\SACINT~1.PFL
ME	SURFDATA	Surf met data info.	93225 2014
ME	UAIRDATA	U-Air met data info.	23230 2014
ME	SITEDATA	On-site met data info.	
ME	PROFBASE	Elev. above MSL	8.23
ME	STARTEND	Start-end met dates	
ME	WDROTATE	Wind dir. rot. adjust.	
ME	WINDCATS	Wind speed cat. max.	
ME	SCIMBYHR	SCIM sample params	
EV	DAYTABLE	Print summary opt.	N/A
OU	EVENTOUT	Output info. level	N/A

[OU](#) | [DAYTABLE](#) | [Print summary opt.](#)

## Source Parameter Tables

### All Sources

Source ID / Pollutant ID	Source Type	Description	UTM		Elev.	Emiss. Rate	Emiss. Units	Release Height (m)
			East (m)	North (m)	(m)			
FQUJ3001	VOLUME		648321.7	4297165.3	0	0.000836771	(g/s)	5
FQUJ3002	VOLUME		648385.3	4297165.3	0	0.000836771	(g/s)	5
FQUJ3003	VOLUME		648321.7	4297228.9	0	0.000836771	(g/s)	5
FQUJ3004	VOLUME		648385.3	4297228.9	0	0.000836771	(g/s)	5

### Volume Sources

Source ID / Pollutant ID	Description	UTM		Elev.	Emiss. Rate	Release Height	Init. Lat. Dim.	Init. Vert. Dim.
		East (m)	North (m)	(m)	(g/s)	(m)	(m)	(m)
FQUJ3001		648321.7	4297165.3	0	0.000836771	5	29.59	1
FQUJ3002		648385.3	4297165.3	0	0.000836771	5	29.59	1
FQUJ3003		648321.7	4297228.9	0	0.000836771	5	29.59	1
FQUJ3004		648385.3	4297228.9	0	0.000836771	5	29.59	1

\*HARP - HRACalc v19044 1/31/2022 4:31:45 PM - Cancer Risk - Input File: C:\Users\bshea\Desktop\HARP\Parcel 3\_HRAInput.hra

INDEX	GRP1	GRP2	POLID	POLABBREV	CONC	RISK_SUM	SCENARIO	DETAILS	INH_RISK	SOIL_RISK
1			9901	DieselExhPM	0.0289	5.52E-06	1.08YrCancerHighEnd_Inh_FAH16to70	*	5.52E-06	0.00E+00



2ND_DRIVER	PASTURE_CONC	FISH_CONC	WATER_CONC
NA	0.00E+00	0.00E+00	0.00E+00

\*HARP - HRACalc v19044 1/31/2022 4:31:45 PM - Chronic Risk - Input File: C:\Users\bshea\Desktop\HARP\Parcel 3\_HRAInput.hra

INDEX	GRP1	GRP2	POLID	POLABBREV	CONC	SCENARIO	CV	CNS	IMMUN	KIDNEY	GILV
1			9901	DieselExhPM	0.0289	NonCancerChronicHighEnd_Inh	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

REPRO/DEVEL	RESP	SKIN	EYE	BONE/TEETH	ENDO	BLOOD	ODOR	GENERAL DETAILS	INH_CONC	SOIL_DOSE
0.00E+00	5.78E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00 *	2.89E-02	0.00E+00

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DERMAL_DOSE MMILK_DOSE WATER_DOSE FISH_DOSE CROP_DOSE BEEF_DOSE DAIRY_DOSE PIG_DOSE CHICKEN_DOSE EGG_DOSE
 0.00E+00   0.00E+00    0.00E+00  0.00E+00   0.00E+00   0.00E+00    0.00E+00  0.00E+00    0.00E+00  0.00E+00

```

1ST_DRIVER	2ND_DRIVER	3RD_DRIVER	PASTURE_CONC	FISH_CONC	WATER_CONC
INHALATION	NA	NA	0.00E+00	0.00E+00	0.00E+00

\*HARP - HRACalc v19044 1/31/2022 4:31:45 PM - Acute Risk - Input File: C:\Users\bshea\Desktop\HARP\Parcel 3\_HRAInput.hra

INDEX	GRP1	GRP2	POLID	POLABBREV	CONC	SCENARIO	CV	CNS	IMMUN	KIDNEY	GILV	REPRO/DEVEL
1			9901	DieselExhPM	3.31747	NonCancerAcute	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

RESP	SKIN	EYE	BONE/TEETH	ENDO	BLOOD	ODOR	GENERAL
0.00E+00	0.00E+00	0.00E+00		0.00E+00	0.00E+00	0.00E+00	0.00E+00