Appendix C

Air Quality and Green House Gas Emissions Study

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September 7, 2021 10593

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Subject: North Central Valley Energy Center Project Air Quality and Greenhouse Gas Emissions Study

Dear Ms. Murphy and Mr. Liu,

Dudek is pleased to present North Central Valley Energy Storage, LLC, with the following air quality and greenhouse gas (GHG) analysis for the proposed North Central Valley Energy Center Project (project) located in San Joaquin County (County). This memorandum estimates criteria air pollutant and GHG emissions and impacts from construction and operation of the project in accordance with the California Environmental Quality Act (CEQA) Guidelines. The contents and organization of this memorandum are as follows: Project Description, General Analysis and Methodology, Thresholds of Significance and Impact Analyses for the Air Quality Assessment and GHG Emissions Assessment, Conclusions, and References Cited.

1 Project Description

North Central Valley Energy Storage, LLC proposes to construct and operate the project on approximately 6 acres within the 84.14-acre project Site to store 528 megawatt-hours of energy. The project would consist of a 132-megawatt by 4-hour battery energy storage system with associated on-site switchyard, inverters, fencing, roads, and supervisory control and data acquisition system. The project also includes a 115-kilovolt overhead generation transmission line, which would extend to the adjacent Pacific Gas and Electric (PG&E) Bellota substation, and an expansion of the existing substation footprint to accommodate the battery energy storage system.

The approximately 84-acre project Site is located in unincorporated San Joaquin County, approximately 15 miles east of the City of Stockton, California, and approximately 1.5 miles south of State Route 26. The project Site is located adjacent to the western boundary of the PG&E Bellota substation along Flood Road. The Site is located in Sections 19 and 20 of Township 2 North and Range 9 East of the "Linden, CA" U.S. Geological Survey ("USGS") 7.5-minute quadrangle. The approximate center of the project Site corresponds to 38°01′52.91″ north latitude and 121°01′78.36″ west longitude.

The project Site is surrounded to the west and south with similarly zoned agricultural lands with active row crop farming operations. To the north of the project Site, there are additional livestock operations, and to the east and adjacent to the property is PG&E's Bellota substation. There are also several residences located in close proximity to the project Site. Elevations on the project Site range from 135 to 175 feet above mean sea level, with low-lying hills and drainages that bisect the property from northeast to southwest. The region surrounding the project Site receives approximately 14 inches of precipitation annually. Average temperatures range from approximate 49°F to 75°F (WRCC 2020).

2 General Analysis and Methodology

The project Site is located within the San Joaquin Valley Air Basin (SJVAB) and is within the jurisdictional boundaries of the San Joaquin Valley Air Pollution Control District (SJVAPCD), which has jurisdiction over San Joaquin County (County) where the project is located. Criteria air pollutants are defined as pollutants for which the federal and state governments have established ambient air quality standards, or criteria, for outdoor concentrations to protect public health. Criteria air pollutants that are evaluated include volatile organic compounds (VOCs; sometimes referred to as reactive organic gases (ROGs)), oxides of nitrogen (NO_x), carbon monoxide (CO), sulfur oxides (SO_x), particulate matter with an aerodynamic diameter less than or equal to 10 microns in size (coarse particulate matter, or PM_{10}), and particulate matter with an aerodynamic diameter less than or equal to 2.5 microns in size (fine particulate matter, or $PM_{2.5}$). VOCs and NO_x are important because they are precursors to ozone (O_3).

GHGs are gases that absorb infrared radiation in the atmosphere. The greenhouse effect is a natural process that contributes to regulating the Earth's temperature. Global climate change concerns are focused on whether human activities are leading to an enhancement of the greenhouse effect. Principal GHGs include carbon dioxide (CO_2), methane (CH_4), nitrous oxide (N_2O), O_3, and water vapor. If the atmospheric concentrations of GHGs rise, the average temperature of the lower atmosphere will gradually increase. Globally, climate change has the potential to impact numerous environmental resources though uncertain impacts related to future air temperatures and precipitation patterns. Although climate change is driven by global atmospheric conditions, climate change impacts are felt locally. Climate change is already affecting California: average temperatures have increased, leading to more extreme hot days and fewer cold nights; shifts in the water cycle have been observed, with less winter precipitation falling as snow, and both snowmelt and rainwater running off earlier in the year; sea levels have risen; and wildland fires are becoming more frequent and intense due to dry seasons that start earlier and end later (CAT 2010).

The effect each GHG has on climate change is measured as a combination of the mass of its emissions and the potential of a gas or aerosol to trap heat in the atmosphere, known as its global warming potential (GWP), which varies among GHGs. Total GHG emissions are expressed as a function of how much warming would be caused by the same mass of CO_2. Thus, GHG emissions are typically measured in terms of pounds or tons of CO_2 equivalent (CO_2e). The CO_2e for a gas is derived by multiplying the mass of the gas by the associated GWP, such that metric tons (MT) of CO_2e = (MT of a GHG) × (GWP of the GHG). CalEEMod assumes that the GWP for CH_4 is 25, which means that emissions of 1 MT of CH_4 are equivalent to emissions of 25 MT of CO_2, and the GWP for N_2O is 298, based on the Intergovernmental Panel on Climate Change's Fourth Assessment Report (IPCC 2007).

2.1 Construction

2.1.1 Project

Emissions from the construction phase of the project were estimated using the California Emissions Estimator Model (CalEEMod) Version 2020.0.4 (CAPCOA 2021). For the purposes of modeling, it was assumed that construction of the project would commence in January 2022[1] and would last approximately 17 months, ending in

[1] The analysis assumes a construction start date of January 2022, which represents the earliest date construction would initiate. Assuming the earliest start date for construction represents the worst-case scenario for criteria air pollutant emissions because equipment and vehicle emission factors for later years would be slightly less due to

May 2023. The project was assumed to be operational for 30 years and then be decommissioned and removed at the end of its lifetime. The analysis contained herein is based on the following subset area schedule assumptions (duration of phases is approximate):

- Site preparation – 2 weeks
- Collector substation site preparation – 1 month
- PG&E substation site preparation – 1 month
- Grading – 1 month
- PG&E substation grading – 1 month
- Collector substation grading – 1 month
- PG&E substation construction – 5 months
- Collector substation installation – 4 months
- Battery/Container installation – 7 months
- Gen-tie foundation and tower erection – 1 week
- Gen-tie stringing and pulling – 1 week
- Decommissioning – 7 months

The majority of the phases listed above would occur concurrently and would not occur sequentially in isolation. The estimated construction duration was provided by the project applicant. Detailed construction equipment modeling assumptions are provided in Attachment A, CalEEMod Outputs.

The construction equipment mix used for estimating the construction emissions of the project is based on information provided by the project applicant and is shown in Table 1.

Table 1. Construction Scenario Assumptions

	One-Way Vehicle Trips			Equipment		
Construction Phase	Average Daily Worker Trips	Average Daily Vendor Truck Trips	Total Haul Truck Trips	Equipment Type	Quantity	Usage Hours
Site preparation	40	2	0	Graders	2	8
				Rubber Tired Loaders	2	8
				Skid Steer Loaders	2	8
				Tractors/Loaders/ Backhoes	2	8
Collector substation site preparation	40	2	0	Rubber Tired Dozers	2	8
				Tractors/Loaders/ Backhoes	2	8
PG&E substation site preparation	40	2	0	Graders	2	8
				Rubber Tired Loaders	2	8

more stringent standards for in-use off-road equipment and heavy-duty trucks, as well as fleet turnover replacing older equipment and vehicles in later years.

Table 1. Construction Scenario Assumptions

Construction Phase	One-Way Vehicle Trips			Equipment		
	Average Daily Worker Trips	Average Daily Vendor Truck Trips	Total Haul Truck Trips	Equipment Type	Quantity	Usage Hours
				Skid Steer Loaders	2	8
				Tractors/Loaders/ Backhoes	2	8
Grading	40	2	60	Graders	2	8
				Plate Compactors	2	8
				Rollers	2	8
				Rubber Tired Loaders	2	8
				Skid Steer Loaders	2	8
				Tractors/Loaders/ Backhoes	2	8
PG&E substation grading	40	2	0	Graders	2	8
				Rollers	2	8
				Rubber Tired Dozers	2	1
				Tractors/Loaders/ Backhoes	2	8
Collector substation grading	40	2	4	Rollers	2	8
				Rubber Tired Dozers	2	8
				Tractors/Loaders/ Backhoes	2	8
PG&E substation construction	40	20	0	Cement and Mortar Mixers	2	8
				Cranes	2	8
				Forklifts	2	8
				Pumps	2	8
				Tractors/Loaders/ Backhoes	2	8
Collector substation installation	40	20	0	Aerial Lifts	6	8
				Air Compressors	2	8
				Bore/Drill Rigs	2	8
				Cranes	2	8
				Excavators	2	8
				Generator Sets	2	8
				Rollers	2	8
				Rough Terrain Forklifts	2	8
				Rubber Tired Dozers	2	8
				Skid Steer Loaders	2	8
				Tractors/Loaders/ Backhoes	4	8
				Trenchers	4	8
Battery/container installation	40	20	4	Air Compressors	4	8
				Cranes	2	8

Table 1. Construction Scenario Assumptions

Construction Phase	One-Way Vehicle Trips			Equipment		
	Average Daily Worker Trips	Average Daily Vendor Truck Trips	Total Haul Truck Trips	Equipment Type	Quantity	Usage Hours
				Excavators	2	8
				Generator Sets	4	8
				Plate Compactors	2	8
				Rollers	2	8
				Rough Terrain Forklifts	2	8
				Skid Steer Loaders	2	8
				Tractors/Loaders/ Backhoes	2	8
Gen-tie foundation and tower erection	10	2	0	Air Compressors	2	8
				Cranes	2	8
				Forklifts	2	8
				Generator Sets	2	8
				Pumps	2	8
				Welders	2	8
Gen-tie stringing and pulling	8	2	0	Forklifts	2	8
				Generator Sets	2	8
				Tractors/Loaders/ Backhoes	2	8
Decommissioning	40	2	2,640	Concrete/Industrial Saws	2	8
				Cranes	2	8
				Rubber Tired Dozers	2	8
				Tractors/Loaders/ Backhoes	2	8

Note: See Attachment A for details.

For the analysis, it was assumed that heavy construction equipment would be operating 5 days per week (22 days per month) during project construction. Construction worker and vendor trips were based on applicant provided data. The project, as a condition of approval, has committed to using US EPA Tier 4 Interim construction equipment for all air compressors, cranes, excavators, generator sets, graders, pumps, rollers, rough terrain forklifts, rubber tired dozers, rubber tired loaders, skid steer loaders, tractors/loaders/backhoes, and trenchers. All other equipment emissions were estimated using the CalEEMod default emission factors for the construction duration.

Project construction would include 1,550 cubic yards of cut and 2,600 cubic yards of fill, as represented in the grading phase. The project would have 650 cubic yards of export and 1,700 cubic yards of import. It is anticipated that earth movement would be primarily, if not completely, accomplished using off-road equipment. It was assumed that ¼ mile of non-road travel would occur per trip for vendor trucks. All other vehicles and haul trucks would travel to and from the onsite staging area. All water trucks were assumed to travel on unpaved road.

Implementation of the project would generate air pollutant emissions from entrained dust, off-road equipment, vehicle emissions, and architectural coatings. Entrained dust results from the exposure of earth surfaces to wind from the direct disturbance and movement of soil, resulting in PM_{10} and $PM_{2.5}$ emissions. The project would comply with SJVAPCD Rule 8021 to control dust emissions generated during the grading activities, which would be required as a condition of approval. Standard construction practices that would be employed to reduce fugitive dust emissions include watering of the active sites to maintain acceptable levels of dust generation.

A detailed depiction of the construction schedule—including information regarding phases and equipment used during each phase—is included in Attachment A to this letter report. The information contained in Attachment A was used as CalEEMod model inputs.

2.1.2 PG&E Substation

Emissions from the construction phase of the PG&E substation were estimated using the CalEEMod Version 2020.0.4 (CAPCOA 2021). For the purposes of modeling, it was assumed that construction of the PG&E substation would commence in June 2022[2] and would last approximately 8 months, ending in January 2023. The analysis contained herein is based on the following subset area schedule assumptions (duration of phases is approximate):

- PG&E substation site preparation – 1 month
- PG&E substation grading – 1 month
- PG&E substation construction – 5 months

The majority of the phases listed above would occur sequentially in isolation. The estimated construction duration was provided by the project applicant. Detailed construction equipment modeling assumptions are provided in Attachment A, CalEEMod Outputs.

The construction equipment mix used for estimating the construction emissions of the PG&E substation is based on information provided by the project applicant and is shown in Table 2.

Table 2. Construction Scenario Assumptions

Construction Phase	One-Way Vehicle Trips			Equipment		
	Average Daily Worker Trips	Average Daily Vendor Truck Trips	Total Haul Truck Trips	Equipment Type	Quantity	Usage Hours
PG&E substation site preparation	40	2	0	Graders	1	8
				Rubber Tired Loaders	1	8
				Skid Steer Loaders	1	8

[2] The analysis assumes a construction start date of June 2022, which represents the earliest date construction would initiate. Assuming the earliest start date for construction represents the worst-case scenario for criteria air pollutant emissions because equipment and vehicle emission factors for later years would be slightly less due to more stringent standards for in-use off-road equipment and heavy-duty trucks, as well as fleet turnover replacing older equipment and vehicles in later years.

Table 2. Construction Scenario Assumptions

Construction Phase	One-Way Vehicle Trips			Equipment		
	Average Daily Worker Trips	Average Daily Vendor Truck Trips	Total Haul Truck Trips	Equipment Type	Quantity	Usage Hours
				Tractors/Loaders/ Backhoes	1	8
PG&E substation grading	40	2	0	Graders	1	8
				Rollers	1	8
				Rubber Tired Dozers	1	1
				Tractors/Loaders/ Backhoes	1	8
PG&E substation construction	40	30	0	Cement and Mortar Mixers	2	8
				Cranes	1	8
				Forklifts	2	8
				Pumps	2	8
				Tractors/Loaders/ Backhoes	2	8

Note: See Attachment B for details.

For the analysis, it was assumed that heavy construction equipment would be operating 5 days per week (22 days per month) during PG&E substation construction. Construction worker and vendor trips were based on applicant provided data. It was assumed that ¼ mile of non-road travel would occur per trip for vendor trucks. All other vehicles and haul trucks would travel to and from the onsite staging area. All water trucks were assumed to travel on unpaved road. The project, as a condition of approval, has committed to using US EPA Tier 4 Interim construction equipment for all cranes, graders, pumps, rollers, rubber tired dozers, rubber tired loaders, skid steer loaders, and tractors/loaders/backhoes.

Implementation of the PG&E substation would generate air pollutant emissions from entrained dust, off-road equipment, vehicle emissions, and architectural coatings. Entrained dust results from the exposure of earth surfaces to wind from the direct disturbance and movement of soil, resulting in PM_{10} and $PM_{2.5}$ emissions. The PG&E substation would comply with SJVAPCD Rule 8021 to control dust emissions generated during the grading activities, which would be required as a condition of approval. Standard construction practices that would be employed to reduce fugitive dust emissions include watering of the active sites to maintain acceptable levels of dust generation.

A detailed depiction of the construction schedule—including information regarding phases and equipment used during each phase—is included in Attachment A to this letter report. The information contained in Attachment A was used as CalEEMod model inputs.

2.2 Operation

2.2.1 Project

Emissions from the operational phase of the project were estimated using CalEEMod. Operational year 2023 was assumed, as it would be the first year following completion of construction.

Area Sources

During operations and maintenance, one of the main sources of GHG emissions would be fugitive emissions from equipment containing SF_6 gas installed at the proposed collector substation. SF_6 has a GWP of 23,900 using CO_2 at a reference value of 1 (IPCC 2007). The collector substation would include six 138 kilovolt (kV) breakers that would contain SF_6 gas. It is estimated that the project would maintain a total of 124 lbs of SF_6 gas at the substation. Although leakage is unlikely, for the purposes of the project's emissions inventory, it was assumed that the breakers would have a maximum annual leak rate of 0.5% in accordance with the Institute of Electrical and Electronics Engineers (IEEE) PC37.122 - Standard for High Voltage Gas-Insulated Substations Rated Above 52 kV (IEEE 2018). Emissions from SF_6 gas are included as part of area source emissions.

Energy Sources

As represented in CalEEMod, energy sources include emissions associated with building electricity and natural gas usage. Electricity use would contribute indirectly to criteria air pollutant emissions; however, the emissions from electricity use are only quantified for GHGs in CalEEMod, since criteria pollutant emissions occur at the site of the power plant, which is typically off site. The battery storage containers would have heating, ventilation, and air conditioning systems to keep the batteries in the optimal operating temperatures. As such, the default CalEEMod rates for a refrigerated warehouse were assumed for electricity and natural gas use for the project. The default CalEEMod rates were assumed for the operations and maintenance building.

Emissions were calculated by multiplying the energy use by the utility's carbon intensity (pounds of GHGs per megawatt-hour for electricity) for CO_2 and other GHGs. Annual electricity emissions were estimated in CalEEMod using the emissions factors for PG&E, which would be the energy source provider for the project.

Mobile Sources

Following the completion of construction activities, the project would generate criteria pollutant emissions from mobile sources (vehicular traffic) as a result of the maintenance activity of the project. It is anticipated that a maximum of three permanent staff employees would use the operations and maintenance building for ongoing facility monitoring, equipment storage, and repairs. CalEEMod default data, including trip characteristics and emissions factors, were used for the model inputs. Project-related traffic was assumed to include a mixture of vehicles in accordance with the associated use, as modeled within CalEEMod. Emission factors representing the vehicle mix and emissions for 2022 were used to estimate emissions associated with vehicular sources. It was also assumed that there would be one water delivery truck per week to deliver water to the operations and maintenance building.

Off-Road Sources

The project would involve using a crane once every 5 years during routine maintenance to be able to lift and move the modular containers. CalEEMod default equipment size and load factors were assumed. It was assumed that the crane would operate for 8 hours, 1 day every 5 years.

Solid Waste

The operations and maintenance building generates solid waste, and therefore, result in CO_2e emissions associated with landfill off-gassing. CalEEMod default values for solid waste generation were used to estimate GHG emissions associated with solid waste.

Water and Wastewater

Supply, conveyance, treatment, and distribution of water for the project require the use of electricity, which would result in associated indirect GHG emissions. Similarly, wastewater generated by the project requires the use of electricity for conveyance and treatment, along with GHG emissions generated during wastewater treatment. Water consumption estimates for both indoor and outdoor water use and associated electricity consumption from water use and wastewater generation were estimated using CalEEMod default values. It was assumed that the operations and maintenance building would be serviced by an onsite septic system.

2.2.2 PG&E Substation

The improvements to the PG&E Substation will not result in an increase in operational activity beyond current maintenance activities. Therefore, impacts to operation are not assessed herein.

3 Air Quality Assessment

3.1 Thresholds of Significance

The significance criteria used to evaluate the project impacts to air quality are based on the recommendations provided in Appendix G of the CEQA Guidelines (14 CCR 15000 et seq.). For the purposes of this air quality analysis, a significant impact would occur if the project would:

1. Conflict with or obstruct implementation of the applicable air quality plan.
2. 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.
3. Expose sensitive receptors to substantial pollutant concentrations.
4. Result in other emissions (such as those leading to odors) adversely affecting a substantial number of people.

Appendix G of the CEQA Guidelines (14 CCR 15000 et seq.) indicates that, where available, the significance criteria established by the applicable air quality management district or air pollution control district may be relied on to determine whether a project would have a significant impact on air quality.

The project is an energy storage facility, which includes an upgrade to the PG&E Bellota Substation. For the purposes of this analysis, the PG&E Substation is a component of the project and has been analyzed as part of the whole of the action. However, the assessment highlights the specific analysis of the PG&E Substation under each threshold of significance in the event that responsible agencies have CEQA obligations related to the PG&E Substation.

San Joaquin Valley Air Pollution Control District

The SJVAPCD *Guidance for Assessing and Mitigating Air Quality Impacts* has established emissions-based thresholds of significance for criteria pollutants (SJVAPCD 2015), which are depicted in Table 3. As shown in Table 3, the SJVAPCD has established significance thresholds for construction emissions and operational permitted and non-permitted equipment and activities, and it recommends evaluating impact significance for these categories separately. These thresholds of significance are based on a calendar-year basis, although construction emissions are assessed on a rolling 12-month period.

Table 3. San Joaquin Valley Air Pollution Control District California Environmental Quality Act Significance Thresholds for Criteria Pollutants

Pollutant	Construction Emissions (tons per year)	Operational Emissions (tons per year)	
		Permitted Equipment and Activities	Non-Permitted Equipment and Activities
ROG	10	10	10
NO_x	10	10	10
CO	100	100	100
SO_x	27	27	27
PM_{10}	15	15	15
$PM_{2.5}$	15	15	15

Source: SJVAPCD 2015.

In addition to the annual emissions mass thresholds described in Table 3, the SJVAPCD has also established screening criteria to determine whether a project would result in a CO hotspot at affected roadway intersections (SJVAPCD 2015). If neither of the following criteria are met at any of the intersections affected by the project, the project would result in no potential to create a violation of the CO standard:

- A traffic study for the project indicates that the level of service (LOS) on one or more streets or at one or more intersections in the project vicinity will be reduced to LOS E or F.
- A traffic study indicates that the project will substantially worsen an already existing LOS F on one or more streets or at more or more intersections in the project vicinity.

The SJVAPCD has also established screening criteria to determine whether a project needs to prepare an ambient air quality analysis. If a project exceeds 100 pounds per day on site for any mitigated criteria air pollutant, an ambient air quality assessment must be performed for all criteria air pollutants (SJVAPCD 2015).

Toxic Air Contaminants

The SJVAPCD has established thresholds of significance for combined TAC emissions from the operations of both permitted and non-permitted sources (SJVAPCD 2015). Projects that have the potential to expose the public to TACs in excess of the following thresholds would be considered to have a significant air quality impact:

- Probability of contracting cancer for the maximally exposed individual equals or exceeds 20 in 1 million people.[3]
- Hazard Index[4] for acute and chronic noncarcinogenic TACs equals or exceeds 1 for the maximally exposed individual.

Odors

As described in the *Guidance for Assessing and Mitigating Air Quality Impacts*, due to the subjective nature of odor impacts, there are no quantitative thresholds to determine if potential odors would have a significant impact (SJVAPCD 2015). Projects must be assessed for odor impacts on a case-by-case basis for the following two situations:

- **Generators:** Projects that would potentially generate odorous emissions proposed to locate near existing sensitive receptors or other land uses where people may congregate.
- **Receivers:** Residential or other sensitive receptor projects or other projects built for the intent of attracting people locating near existing odor sources.

The SJVAPCD has identified some common types of facilities that have been known to produce substantial odors, as well as screening distances between these odor sources and receptors. These are depicted in Table 4.

Table 4. Screening Levels for Potential Odor Sources

Type of Facility	Screening Distance (miles)
Wastewater treatment facility	2
Sanitary landfill	1
Transfer station	1
Composting facility	1
Petroleum facility	2
Asphalt batch plant	1
Chemical manufacturing	1
Fiberglass manufacturing	1

[3] The cancer risk threshold was increased from 10 to 20 in 1 million with approval of APR 1906 (Framework for Performing Health Risk Assessments) on June 30, 2015.

[4] Non-cancer adverse health impact, both for acute (short-term) and chronic (long-term) health effects, is measured against a hazard index, which is defined as the ratio of the predicted incremental exposure concentration from the project to a published reference exposure level that could cause adverse health effects as established by the Office of Environmental Health Hazard Assessment. The ratio (referred to as the hazard quotient) of each noncarcinogenic substance that affects a certain organ system is added together to produce an overall hazard index for that organ system.

Table 4. Screening Levels for Potential Odor Sources

Type of Facility	Screening Distance (miles)
Painting/coating (i.e., auto body shop)	1
Food processing facility	1
Feed lot / dairy	1
Rendering plant	1

Source: SJVAPCD 2015.

1. If the project would result in an odor source and sensitive receptors being located within these screening distances, additional analysis would be required. For projects involving new receptors locating near an existing odor source where there is currently no nearby development and for new odor sources locating near existing receptors, the SJVAPCD recommends the analysis be based on a review of odor complaints for similar facilities, with consideration also given to local meteorological conditions, particularly the intensity and direction of prevailing winds. Regarding the complaint record of the odor source facility (or similar facility), the facility would be considered to result in significant odors if there has been:

   - More than one confirmed complaint per year averaged over a 3-year period, or
   - Three unconfirmed complaints[5] per year averaged over a 3-year period.

3.2 Impact Analysis

3.2.1 Would the project conflict with or obstruct implementation of the applicable air quality plan?

Project

A project is non-conforming with an air quality plan if it conflicts with or delays implementation of any applicable attainment or maintenance plan. A project is conforming if it complies with all applicable SJVAPCD rules and regulations, complies with all proposed control measures that are not yet adopted from the applicable plan(s), and is consistent with the growth forecasts in the applicable plan(s) (or is directly included in the applicable plan). Zoning changes, specific plans, general plan amendments and similar land use plan changes which do not increase dwelling unit density, do not increase vehicle trips, and do not increase VMT are also deemed to comply with the applicable air quality plan (SJVAPCD 2015).

The project would comply with applicable SJVAPCD rules and regulations, such as Regulation VIII (Fugitive PM_{10} Prohibitions) and IX (Mobile and Indirect Sources). The project would not conflict with existing land uses or result in population growth. In addition, the project would not result in a long-term increase in the number of trips or increase the overall VMT in the area. Haul truck, vendor truck, and worker vehicle trips would be generated during the proposed construction activities but would cease after construction is completed until decommissioning at the end of the project life span. Emissions during construction would not exceed the SJVAPCD significance threshold. During the longer-term

[5] An unconfirmed complaint means that either the odor/air contaminant release could not be detected or the source/facility cannot be determined (SJVAPCD 2015a).

operational phase, the project would have routine inspection and maintenance activities that would result in a net increase in emissions although, as discussed in Section 3.2.2, the increase in emissions would not exceed any significance threshold or violate any SJVAPCD rule or regulation. The project site is currently zoned as AG-40 and permits utility services as set forth in Table 9-605.2 of the County's Municipal Code. Therefore, the project would be consistent with the zoned use for the site. The project would result in a less-than-significant impact during construction and operation.

PG&E Substation

The PG&E Substation would comply with applicable SJVAPCD rules and regulations, such as Regulation VIII (Fugitive PM_{10} Prohibitions) and IX (Mobile and Indirect Sources). The PG&E Substation would not conflict with existing land uses or result in population growth. In addition, the PG&E Substation would not result in a long-term increase in the number of trips or increase the overall VMT in the area. Haul truck, vendor truck, and worker vehicle trips would be generated during the proposed construction activities but would cease after construction is completed. Emissions during construction would not exceed the SJVAPCD significance threshold. During the longer-term operational phase, the PG&E Substation would not result in an increase in operational activity. The PG&E Substation would result in a less-than-significant impact during construction and operation.

3.2.2 Would the project 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?

Air pollution is largely a cumulative impact. The nonattainment status of regional pollutants is a result of past and present development, and SJVAPCD develops and implements plans for future attainment of ambient air quality standards. Based on these considerations, project-level thresholds of significance for criteria pollutants are relevant in the determination of whether a project's individual emissions would have a cumulatively significant impact on air quality.

Construction Emissions

Project

Proposed construction activities would result in the temporary addition of pollutants to the local airshed caused by on-site sources (i.e., off-road construction equipment, soil disturbance, and VOC off-gassing) and off-site sources (i.e., on-road vendor trucks, haul trucks, and worker vehicle trips). Construction emissions can vary substantially from day to day, depending on the level of activity, the specific type of operation, and, for particulate matter, the prevailing weather conditions. Therefore, such emission levels can only be approximately estimated.

CalEEMod Version 2020.0.4 was used to estimate emissions from construction of the project. Internal combustion engines used by construction equipment, trucks, and worker vehicles would result in emissions of VOCs, NO_x, CO, PM_{10}, and $PM_{2.5}$. PM_{10} and $PM_{2.5}$ emissions would also be generated by entrained dust, which results from the exposure of earth surfaces to wind from the direct disturbance and movement of soil. The project would be required to comply with SJVAPCD Rule 8021 to control dust emissions generated during any dust-generating activities. Standard construction practices that would be employed to reduce fugitive dust emissions include watering of the active dust areas two times per day, with additional watering depending on weather conditions. The CalEEMod

default assumptions were used for estimating fugitive dust emissions from grading on site. Table 5 presents the annual emissions reported as the highest rolling 12 months estimated during construction. Details of the emission calculations are provided in Attachment A. Table 5 presents the estimated maximum annual construction emissions generated during construction of the project. Details of the emission calculations are provided in Attachment A. The project would also comply with SJVAPCD Rule 9510, Indirect Source Review, which requires development projects to reduce exhaust emissions from construction equipment by 20% for NO_x and 45% for PM_{10} compared to the statewide average. This is reflected as well in Table 5. The reductions taken in Table 5 are compared to the statewide average fleet, which is calculated using the Sacramento Metropolitan Air Quality Management District's Construction Mitigation Tool. A copy of the completed tool for the project is included in Attachment A.

Table 5. Estimated Maximum Construction Criteria Air Pollutant Emissions – Project

	ROG	NO_x	CO	SO_x	PM_{10}	$PM_{2.5}$
Month/Year	Tons per month					
January 2022	0.02	0.36	0.63	<0.00	0.05	0.02
February 2022	0.02	0.36	0.63	<0.00	0.05	0.02
March 2022	0.02	0.36	0.63	<0.00	0.05	0.02
April 2022	0.02	0.36	0.63	<0.00	0.05	0.02
May 2022	0.02	0.36	0.63	<0.00	0.05	0.02
June 2022	0.02	0.36	0.63	<0.00	0.05	0.02
July 2022	0.02	0.36	0.63	<0.00	0.05	0.02
August 2022	0.02	0.36	0.63	<0.00	0.05	0.02
September 2022	0.02	0.36	0.63	<0.00	0.05	0.02
October 2022	0.02	0.36	0.63	<0.00	0.05	0.02
November 2022	0.02	0.36	0.63	<0.00	0.05	0.02
December 2022	0.02	0.36	0.63	<0.00	0.05	0.02
January 2023	0.02	0.40	0.68	<0.00	0.02	0.01
February 2023	0.02	0.40	0.68	<0.00	0.02	0.01
March 2023	0.02	0.40	0.68	<0.00	0.02	0.01
April 2023	0.02	0.40	0.68	<0.00	0.02	0.01
May 2023	0.02	0.40	0.68	<0.00	0.02	0.01
January 2052	0.01	0.12	0.26	<0.00	0.01	<0.00
February 2052	0.01	0.12	0.26	<0.00	0.01	<0.00
March 2052	0.01	0.12	0.26	<0.00	0.01	<0.00
April 2052	0.01	0.12	0.26	<0.00	0.01	<0.00
May 2052	0.01	0.12	0.26	<0.00	0.01	<0.00
June 2052	0.01	0.12	0.26	<0.00	0.01	<0.00
July 2052	0.01	0.12	0.26	<0.00	0.01	<0.00
Maximum Rolling 12-Month Total Emissions	0.27	4.53	7.78	0.01	0.45	0.16
SJVAPCD Threshold	*10*	*10*	*100*	*27*	*15*	*15*
Threshold Exceeded?	**No**	**No**	**No**	**No**	**No**	**No**

Table 5. Estimated Maximum Construction Criteria Air Pollutant Emissions – Project

Month/Year	ROG	NO_x	CO	SO_x	PM_{10}	$PM_{2.5}$
	Tons per month					
Total Annual Emissions with ISR Compliance[1]	NA	4.53	NA	NA	0.45	NA
Threshold Exceeded?	No	No	No	No	No	No

Notes: ROG = reactive organic gases; NO_x = oxides of nitrogen; CO = carbon monoxide; SO_x = sulfur oxides; PM_{10} = coarse particulate matter; $PM_{2.5}$ = fine particulate matter; SJVAPCD = San Joaquin Valley Air Pollution Control District; ISR = Indirect Source Review; <0.00 = less than 0.004.

[1] This row reflects minimum required emissions reductions in NO_x and PM_{10} to comply with Rule 9510.

See Attachment A for complete results.

As shown in Table 5, the project construction would not exceed SJVAPCD's rolling 12-month thresholds. Therefore, construction impacts associated with criteria air pollutant emissions would be **less than significant**.

PG&E Substation

Proposed construction activities would result in the temporary addition of pollutants to the local airshed caused by on-site sources (i.e., off-road construction equipment, soil disturbance, and VOC off-gassing) and off-site sources (i.e., on-road vendor trucks, haul trucks, and worker vehicle trips). Construction emissions can vary substantially from day to day, depending on the level of activity, the specific type of operation, and, for particulate matter, the prevailing weather conditions. Therefore, such emission levels can only be approximately estimated.

CalEEMod Version 2020.0.4 was used to estimate emissions from construction of the PG&E Substation. Internal combustion engines used by construction equipment, trucks, and worker vehicles would result in emissions of VOCs, NO_x, CO, PM_{10}, and $PM_{2.5}$. PM_{10} and $PM_{2.5}$ emissions would also be generated by entrained dust, which results from the exposure of earth surfaces to wind from the direct disturbance and movement of soil. The PG&E Substation would be required to comply with SJVAPCD Rule 8021 to control dust emissions generated during any dust-generating activities. Standard construction practices that would be employed to reduce fugitive dust emissions include watering of the active dust areas two times per day, with additional watering depending on weather conditions. The CalEEMod default assumptions were used for estimating fugitive dust emissions from grading on site. Table 6 presents the annual emissions reported as the highest rolling 12 months estimated during construction. Details of the emission calculations are provided in Attachment B. Table 6 presents the estimated maximum annual construction emissions generated during construction of the PG&E Substation. Details of the emission calculations are provided in Attachment A. The PG&E Substation would also comply with SJVAPCD Rule 9510, Indirect Source Review, which requires development projects to reduce exhaust emissions from construction equipment by 20% for NO_x and 45% for PM_{10} compared to the statewide average. This is reflected as well in Table 6. The reductions taken in Table 6 are compared to the statewide average fleet, which is calculated using the Sacramento Metropolitan Air Quality Management District's Construction Mitigation Tool. A copy of the completed tool for the PG&E Substation is included in Attachment B.

Table 6. Estimated Maximum Construction Criteria Air Pollutant Emissions – PG&E Substation

Month/Year	ROG	NO_x	CO	SO_x	PM_{10}	$PM_{2.5}$
	Tons per month					
June 2022	0.01	0.14	0.24	<0.00	0.03	0.01
July 2022	0.01	0.14	0.24	<0.00	0.03	0.01
August 2022	0.01	0.14	0.24	<0.00	0.03	0.01
September 2022	0.01	0.14	0.24	<0.00	0.03	0.01
October 2022	0.01	0.14	0.24	<0.00	0.03	0.01
November 2022	0.01	0.14	0.24	<0.00	0.03	0.01
December 2022	0.01	0.14	0.24	<0.00	0.03	0.01
January 2023	<0.00	0.05	0.08	<0.00	0.01	<0.00
Maximum Rolling 12-Month Total Emissions	0.08	1.00	1.73	<0.00	0.19	0.06
SJVAPCD Threshold	*10*	*10*	*100*	*27*	*15*	*15*
Threshold Exceeded?	**No**	**No**	**No**	**No**	**No**	**No**
Total Annual Emissions with ISR Compliance[1]	**NA**	1.00	**NA**	**NA**	0.19	**NA**
Threshold Exceeded?	**No**	**No**	**No**	**No**	**No**	**No**

Notes: ROG = reactive organic gases; NO_x = oxides of nitrogen; CO = carbon monoxide; SO_x = sulfur oxides; PM_{10} = coarse particulate matter; $PM_{2.5}$ = fine particulate matter; SJVAPCD = San Joaquin Valley Air Pollution Control District; ISR = Indirect Source Review; <0.00 = less than 0.004.

[1] This row reflects minimum required emissions reductions in NO_x and PM_{10} to comply with Rule 9510.

See Attachment B for complete results.

As shown in Table 6, the PG&E Substation construction would not exceed SJVAPCD's rolling 12-month thresholds. Therefore, construction impacts associated with criteria air pollutant emissions would be **less than significant**.

Operational Emissions

Project

Emissions from the operational phase of the project were estimated using CalEEMod. Operational year 2022 was assumed, as it would be the first year following completion of construction. Table 7 presents the estimated emissions during operation.

Table 7. Estimated Maximum Annual Operational Criteria Air Pollutant Emissions

Emissions Source	ROG	NO_x	CO	SO_x	PM_{10}	$PM_{2.5}$
	Tons per year					
Area	0.15	<0.00	<0.00	<0.00	<0.00	<0.00
Energy	<0.00	<0.00	<0.00	<0.00	<0.00	<0.00
Mobile	<0.00	0.01	0.02	<0.00	<0.00	<0.00
Off-road	<0.00	<0.00	<0.00	<0.00	<0.00	<0.00

Table 7. Estimated Maximum Annual Operational Criteria Air Pollutant Emissions

Emissions Source	ROG	NO_x	CO	SO_x	PM_{10}	$PM_{2.5}$
	Tons per year					
Total	**0.15**	**0.01**	**0.03**	**<0.00**	**0.01**	**<0.00**
SJVAPCD Threshold	*10*	*10*	*100*	*27*	*15*	*15*
Threshold Exceeded?	No	No	No	No	No	No

Notes: ROG = reactive organic gases; NO_x = oxides of nitrogen; CO = carbon monoxide; SO_x = sulfur oxides; PM_{10} = coarse particulate matter; $PM_{2.5}$ = fine particulate matter; SJVAPCD = San Joaquin Valley Air Pollution Control District. <0.00 = less than 0.004
See Attachment A for complete results. Totals may not sum precisely due to rounding.

As shown in Table 7, the project would not exceed SJVAPCD's significance thresholds during operations. Therefore, operational impacts associated with criteria air pollutant emissions would be less than significant.

For purposes of this air quality analysis and consistent with SJVAPCD guidance documents, actions that exceed criteria pollutant NAAQS (i.e., primary standards designed to safeguard the health of people considered to be sensitive receptors while outdoors and secondary standards designed to safeguard human welfare) or the Environmental Protection Agency's Prevention of Significant Deterioration Significant Impact Levels would result in significant impacts. Additionally, actions that violate CAAQS developed by CARB are considered significant.

Determination of whether project emissions would violate any ambient air quality standard is largely a function of air quality dispersion modeling. The SJVAPCD recommends that an ambient air quality analysis be performed when emissions of any criteria pollutant would equal or exceed any applicable threshold of significance for criteria pollutants or 100 pounds per day of any criteria pollutant. If the impacts resulting from a project's emissions would not exceed the CAAQS and NAAQS at the project's property boundaries, the project would not violate any air quality standard or contribute substantially to an existing or projected air quality violation (SJVAPCD 2015). As shown in Attachment A, the project did not exceed 100 pounds per day on site during construction when assuming compliance with SJVAPCD Rule 9501, Indirect Source Rule; therefore, the project does not require an air quality dispersion modeling assessment.

Air pollution is largely a cumulative impact. The nonattainment status of regional pollutants is a result of past and present development, and the SJVAPCD develops and implements plans for future attainment of ambient air quality standards. Based on these considerations, project-level thresholds of significance for criteria pollutants are relevant in the determination of whether a project's individual emissions would have a cumulatively significant impact on air quality. As previously described, the project would have a less-than-significant impact for construction and operation.

The SJVAB is a nonattainment area for O_3, PM_{10}, and $PM_{2.5}$ under the NAAQS and/or CAAQS. The poor air quality in the SJVAB is the result of cumulative emissions from motor vehicles, off-road equipment, commercial and industrial facilities, and other emission sources. Projects that emit these pollutants or their precursors (i.e., ROG and NO_x for O_3) potentially contribute to poor air quality. Annual construction emissions associated with the project would not exceed the SJVAPCD significance thresholds for criteria pollutants. Accordingly, the project would result in a less-than-significant increase in emissions of nonattainment pollutants. The project would not generate a significant long-term increase in operational emissions, as shown in Table 7. Furthermore, the project would not conflict with

the SJVAPCD Ozone Attainment Plans, or the PM_{10} or $PM_{2.5}$ Attainment Plan, which address the cumulative emissions in the SJVAB and account for emissions associated with construction activity in the SJVAB.

As shown in Tables 5 and 7, the project would not exceed the SJVAPCD significance thresholds. Based on these considerations, the project would not result in a cumulatively considerable increase in emissions of nonattainment pollutants. Impacts would be **less than significant**.

PG&E Substation

As discussed in Section 2.2.2, the PG&E Substation would not increase activity for maintenance during operations due to the upgrades to the project. Therefore, impacts would be **less than significant**.

3.3.3 Would the project expose sensitive receptors to substantial pollutant concentrations?

Project

Air quality varies as a direct function of the amount of pollutants emitted into the atmosphere, the size and topography of the air basin, and the prevailing meteorological conditions. Air quality problems arise when the rate of pollutant emissions exceeds the rate of dispersion. Reduced visibility, eye irritation, and adverse health impacts upon those persons termed "sensitive receptors" are the most serious hazards of existing air quality conditions in the area. Some land uses are considered more sensitive to changes in air quality than others, depending on the population groups and the activities involved. People most likely to be affected by air pollution, as identified by CARB, include children, the elderly, athletes, and people with cardiovascular and chronic respiratory diseases; however, for the purposes of this analysis, residents are also considered sensitive receptors. As such, sensitive receptors include residences, schools, playgrounds, child-care centers, athletic facilities, long-term health-care facilities, rehabilitation centers, convalescent centers, and retirement homes. The closest off-site sensitive receptors to the project are existing residential land uses located adjacent to the project Site boundary. As discussed, the project would comply with SJVAPCD Rule 8021, which requires applicants to develop, prepare, submit, obtain approval of, and implement a dust control plan.

Valley Fever Exposure

The project Site is located in San Joaquin County, which is a county where Valley Fever, caused by the fungus Coccidioides immitis, is considered endemic. Rates of Valley Fever are relatively high in San Joaquin County. The San Joaquin County Public Health Services Department, reported 259 cases of Valley Fever in 2018, the highest ever recorded (San Joaquin County Public Health Services 2019). This fungus lives in the top 2–12 inches of soil; therefore, during soil disturbance, the fungal spores can be released into the air. The spores are too small to be seen by the naked eye, and there is no reliable way to test the soils for spores (CDPH 2019). The project Site is located in an area where there is a high risk of Valley Fever, a fungal-borne disease. The disease is caused by inhalation of dust containing the Coccidioides immitis, a fungal spore. Most people who are exposed have no or very mild systems; however, in a small percentage of the population, it can generate more serious systems of meningitis, pneumonia, or chronic fatigue. Construction workers have increased risk of exposure, since this job results in the disturbance of soils where fungal spores are found. Valley Fever infection rates are highest in California from June to November, and the illness is endemic in San Joaquin County. Therefore, a risk of Valley Fever infection exists for construction personnel working on the project in the peak summer and fall months. Valley Fever risk from construction-related dust from the project will be partially mitigated by implementation of an SJVAPCD–approved dust control plan. However, implementation of Mitigation Measure (MM-) AQ-

1 and MM-AQ-2 would further reduce the risk of Valley Fever infection. Therefore, with implementation of MM-AQ-1 and MM-AQ-2, impacts to construction workers and nearby sensitive receptors, would **less than significant** with mitigation.

Health Impacts of Toxic Air Contaminants

A substance is considered toxic if it has the potential to cause adverse health effects in humans, including increasing the risk of cancer upon exposure, or acute (immediate) and/or chronic (cumulative) non-cancer health effects. A toxic substance released into the air is considered a toxic air contaminant (TAC). Adverse health effects associated with exposure to TACs may include carcinogenic (i.e., cancer-causing) and non-carcinogenic effects. Examples include certain aromatic and chlorinated hydrocarbons, certain metals, and asbestos. TACs are generated by a number of sources, including stationary sources such as dry cleaners, gas stations, combustion sources, and laboratories; mobile sources such as automobiles; and area sources such as landfills. Non-carcinogenic effects typically affect one or more target organ systems and may be experienced on either short-term (acute) or long-term (chronic) exposure to a given TAC.

TACs are identified by federal and state agencies based on a review of available scientific evidence. In the State of California, TACs are identified through a two-step process that was established in 1983 under the Toxic Air Contaminant Identification and Control Act. This two-step process of risk identification and risk management and reduction was designed to protect residents from the health effects of toxic substances in the air. In addition, the California Air Toxics "Hot Spots" Information and Assessment Act, Assembly Bill 2588, was enacted by the legislature in 1987 to address public concern over the release of TACs into the atmosphere.

Project construction would result in emissions of diesel particulate from heavy construction equipment and trucks accessing the Site. Diesel particulate is characterized as a TAC by the State of California. The Office of Environmental Health Hazard Assessment has identified carcinogenic and chronic non-carcinogenic effects from long-term exposure but has not identified health effects due to short-term exposure to diesel exhaust. According to the Office of Environmental Health Hazard Assessment, health risk assessments, which determine the exposure of sensitive receptors to toxic emissions, should be based on a 30-year exposure period for the maximally exposed individual resident; however, such assessments should be limited to the period/duration of activities associated with the project. Thus, the duration of the proposed construction activities would only constitute a small percentage of the total 30-year exposure period. Due to this relatively short period of exposure (17 months), distance to the closest sensitive receptors, and minimal particulate emissions on site, TACs generated by the project would not result in concentrations causing significant health risks. Overall, the project would not result in substantial TAC exposure to sensitive receptors in the vicinity of the project, and impacts would be less than significant.

Additionally, the health risk public-notification thresholds adopted by the SJVAPCD Board is 20 excess cancer cases in a million for cancer risk and a hazard index of more than one (1.0) for non-cancer risk. The hazard index of more than 1.0 means that predicted levels of a toxic pollutant are greater than the reference exposure level, which is considered the level below which adverse health effects are not expected. Examples of projects that emit toxic pollutants include oil and gas processing, gasoline dispensing, dry cleaning, electronic and parts manufacturing, medical equipment sterilization, freeways, and rail yards (SJVAPCD 2015). The project would not emit TACs, and toxic contaminants are not anticipated to be present at the project Site; as such, a formal health risk assessment will not be required for the project. Accordingly, the project is not anticipated to result in emissions that would exceed the SJVAPCD Board-adopted health risk notification thresholds.

Health Impacts of Carbon Monoxide

As described previously, exposure to high concentrations of CO can result in dizziness, fatigue, chest pain, headaches, and impairment of central nervous system functions. Mobile-source impacts, including those related to CO, occur essentially on two scales of motion. Regionally, project-related construction travel would add to regional trip generation and increase the vehicle miles traveled within the local airshed and the SJVAB. Locally, construction traffic would be added to the roadway system in the vicinity of the project Site. Although the SJVAB is currently an attainment area for CO, there is a potential for the formation of microscale CO "hotspots" to occur immediately around points of congested traffic. Hotspots can form if such traffic occurs during periods of poor atmospheric ventilation, is composed of a large number of vehicles cold-started and operating at pollution-inefficient speeds, and/or is operating on roadways crowded with non-project traffic. Because of continued improvement in vehicular emissions at a rate faster than the rate of vehicle growth and/or congestion, the potential for CO hotspots in the SJVAB is steadily decreasing.

The SJVAPCD Guidance for Assessing and Mitigating Air Quality Impacts states that a quantitative CO hotspots analysis be performed if either of the following two conditions exist: (1) a traffic study for the project indicates that the level of service (LOS) on one or more streets or at one or more intersections in the project vicinity will be reduced to LOS E or F, or (2) a traffic study indicates that the project will substantially worsen an already existing LOS F on one or more streets or at more or more intersections in the project vicinity (SJVAPCD 2015). The project would cause a temporary increase in traffic during the 15-month construction period. However, the project would only result in 6 additional daily trips (3 personnel) during operation plus one water delivery per week. Therefore, the project would not materially contribute to the local traffic or impact local intersections level of service. As such, impacts to sensitive receptors with regard to potential CO hotspots resulting from the project's contribution to cumulative traffic-related air quality impacts would be less than significant.

Health Impacts of Other Criteria Air Pollutants

Construction of the project would not exceed the SJVAPCD threshold for ROGs. Specific ROGs may be TACs; however, ROGs are not expected to present risk of health impacts even if the specific ROGs associated with project construction aren't entirely known. Some ROGs would be associated with motor vehicles and construction equipment, whereas others are associated with architectural coatings, the emissions of which would not result in the exceedances of the SJVAPCD's threshold as shown in Table 3. Generally, the ROGs in architectural coatings are of relatively low toxicity. Additionally, SJVAPCD Rule 4601 restricts the ROG content of coatings for both construction and operational applications.

Operation of the project would not result in emissions that exceed the SJVAPCD's emission thresholds for any criteria air pollutants, including ROGs, NO_x, CO, SO_x, PM_{10}, or $PM_{2.5}$. Regarding ROGs, some ROGs would be associated with motor vehicles and construction equipment, while others are associated with architectural coatings, the emissions of which would not result in the exceedances of the SJVAPCD's thresholds as shown in Table 3. Generally, the ROGs in architectural coatings are of relatively low toxicity.

In addition, ROGs and NO_x are precursors to O_3, for which the SJVAB is designated as nonattainment with respect to the NAAQS and CAAQS (the Environmental Protection Agency has designated the SJVAB as a nonattainment area for the federal 8-hour O_3 standard, and CARB has designated the SJVAB as a nonattainment area for the state 1-hour and 8 hour O_3 standards). The health effects associated with O_3 are generally associated with reduced lung function. The contribution of ROGs and NO_x to regional ambient O_3 concentrations is the result of complex photochemistry. The increases in O_3 concentrations in the SJVAB due to O_3 precursor emissions tend to be found downwind from the source location to allow time for the photochemical reactions to occur. However, the potential for exacerbating excessive O_3

concentrations would also depend on the time of year that the ROG emissions would occur because exceedances of the O_3 ambient air quality standards tend to occur between April and October, when solar radiation is highest.

The holistic effect of a single project's emissions of O_3 precursors is speculative due to the lack of quantitative methods to assess this impact. Nonetheless, the ROG and NO_x emissions associated with project construction could minimally contribute to regional O_3 concentrations and the associated health impacts. O_3 health impacts are associated with respiratory irritation, which may be experienced by nearby receptors during the periods of heaviest use of off-road construction equipment. The project would not exceed the SJVAPCD threshold for O_3 precursor NO_x during construction thus there would be a less than significant impact during construction. In addition, the long-term operational emissions would not exceed any significance thresholds for O_3 precursors.

Construction and operation of the project would not exceed thresholds for PM_{10} or $PM_{2.5}$ and would not contribute to exceedances of the NAAQS and CAAQS for particulate matter. The project would also not result in substantial DPM emissions during construction and operation and therefore, would not result in significant health effects related to DPM exposure. Because the project would not exceed thresholds for PM_{10} or $PM_{2.5}$ during construction and operation, health impacts would be less than significant.

Regarding NO_2, according to the construction emissions analysis, construction of the project would not contribute to exceedances of the NAAQS and CAAQS for NO_2 during construction. Emissions from construction of the project would be short-term in duration, and the long-term operational emissions would not exceed any significance thresholds. NO_2 and NO_x health impacts are associated with respiratory irritation, which may be experienced by nearby receptors during the periods of heaviest use of off-road construction equipment. Therefore, the construction- and operation-related health impacts for NO_2 would be considered less than significant.

Mitigation Measures: The following mitigation is provided to reduce the impacts to construction workers and nearby sensitive receptors.

MM-AQ-1 Between June 1 and November 30, when Valley Fever rates of infection are the highest, additional dust suppression measures (such as additional water or the application of additional soil stabilizer) will be implemented prior to and immediately following ground disturbing activities if wind speeds exceed 15 mph or temperatures exceed 95°F for 3 consecutive days. The additional dust suppression will continue until winds are 10 mph or lower and outdoor air temperatures are below 90°F for at least 2 consecutive days. The additional dust suppression measures will be incorporated into the Dust Control Plan.

MM-AQ-2 Prior to any project grading activity, the primary project construction contractor will prepare and implement a worker training program that describes potential health hazards associated with Valley Fever, common symptoms, proper safety procedures to minimize health hazards, and notification procedures if suspected work-related symptoms are identified during construction. The worker training program will identify safety measures to be implemented by construction contractors during construction. Safety measures will include the following:

- Provide HEPA-filtered air-conditioned enclosed cabs on heavy equipment. Train workers on proper use of cabs, such as turning on air conditioning prior to using the equipment.
- Provide communication methods, such as two-way radios, for use by workers in enclosed cabs.

- Provide personal protective equipment (PPE), such as half-mask and/or full-mask respirators equipped with particulate filtration, to workers active in dusty work areas.
- Provide separate, clean eating areas with hand-washing facilities for construction workers.
- Clean equipment, vehicles, and other items before they are moved off site to other work locations.
- Provide training for construction workers so they can recognize the symptoms of Valley Fever and promptly report suspected symptoms of work-related Valley Fever to a supervisor.
- Direct workers that exhibit Valley Fever symptoms to immediately seek a medical evaluation.
- Prior to initiating any grading, the construction contractor will provide the County program manager with copies of all educational training material.

PG&E Substation

Valley Fever Exposure

The PG&E Substation site is located in San Joaquin County, which is a county where Valley Fever, caused by the fungus Coccidioides immitis, is considered endemic. Rates of Valley Fever are relatively high in San Joaquin County. The San Joaquin County Public Health Services Department, reported 259 cases of Valley Fever in 2018, the highest ever recorded (San Joaquin County Public Health Services 2019). This fungus lives in the top 2–12 inches of soil; therefore, during soil disturbance, the fungal spores can be released into the air. The spores are too small to be seen by the naked eye, and there is no reliable way to test the soils for spores (CDPH 2019). The PG&E Substation site is located in an area where there is a high risk of Valley Fever, a fungal-borne disease. The disease is caused by inhalation of dust containing the Coccidioides immitis, a fungal spore. Most people who are exposed have no or very mild systems; however, in a small percentage of the population, it can generate more serious systems of meningitis, pneumonia, or chronic fatigue. Construction workers have increased risk of exposure, since this job results in the disturbance of soils where fungal spores are found. Valley Fever infection rates are highest in California from June to November, and the illness is endemic in San Joaquin County. Therefore, a risk of Valley Fever infection exists for construction personnel working on the PG&E Substation in the peak summer and fall months. Valley Fever risk from construction-related dust from the PG&E Substation will be partially mitigated by implementation of an SJVAPCD–approved dust control plan. However, implementation of MM-AQ-1 and MM-AQ-2 would further reduce the risk of Valley Fever infection. Therefore, with implementation of MM-AQ-1 and MM-AQ-2, impacts to construction workers and nearby sensitive receptors, would **less than significant** with mitigation.

Health Impacts of Toxic Air Contaminants

A substance is considered toxic if it has the potential to cause adverse health effects in humans, including increasing the risk of cancer upon exposure, or acute (immediate) and/or chronic (cumulative) non-cancer health effects. A toxic substance released into the air is considered a toxic air contaminant (TAC). Adverse health effects associated with exposure to TACs may include carcinogenic (i.e., cancer-causing) and non-carcinogenic effects. Examples include certain aromatic and chlorinated hydrocarbons, certain metals, and asbestos. TACs are generated by a number of sources, including stationary sources such as dry cleaners, gas stations, combustion sources, and laboratories; mobile sources

such as automobiles; and area sources such as landfills. Non-carcinogenic effects typically affect one or more target organ systems and may be experienced on either short-term (acute) or long-term (chronic) exposure to a given TAC.

TACs are identified by federal and state agencies based on a review of available scientific evidence. In the State of California, TACs are identified through a two-step process that was established in 1983 under the Toxic Air Contaminant Identification and Control Act. This two-step process of risk identification and risk management and reduction was designed to protect residents from the health effects of toxic substances in the air. In addition, the California Air Toxics "Hot Spots" Information and Assessment Act, Assembly Bill 2588, was enacted by the legislature in 1987 to address public concern over the release of TACs into the atmosphere.

PG&E Substation construction would result in emissions of diesel particulate from heavy construction equipment and trucks accessing the site. Diesel particulate is characterized as a TAC by the State of California. The Office of Environmental Health Hazard Assessment has identified carcinogenic and chronic non-carcinogenic effects from long-term exposure but has not identified health effects due to short-term exposure to diesel exhaust. According to the Office of Environmental Health Hazard Assessment, health risk assessments, which determine the exposure of sensitive receptors to toxic emissions, should be based on a 30-year exposure period for the maximally exposed individual resident; however, such assessments should be limited to the period/duration of activities associated with the PG&E Substation. Thus, the duration of the proposed construction activities would only constitute a small percentage of the total 30-year exposure period. Due to this relatively short period of exposure (8 months), distance to the closest sensitive receptors, and minimal particulate emissions on site, TACs generated by the PG&E Substation would not result in concentrations causing significant health risks. Overall, the PG&E Substation would not result in substantial TAC exposure to sensitive receptors in the vicinity of the proposed PG&E Substation, and impacts would be less than significant.

Additionally, the health risk public-notification thresholds adopted by the SJVAPCD Board is 20 excess cancer cases in a million for cancer risk and a hazard index of more than one (1.0) for non-cancer risk. The hazard index of more than 1.0 means that predicted levels of a toxic pollutant are greater than the reference exposure level, which is considered the level below which adverse health effects are not expected. Examples of projects that emit toxic pollutants include oil and gas processing, gasoline dispensing, dry cleaning, electronic and parts manufacturing, medical equipment sterilization, freeways, and rail yards (SJVAPCD 2015). The PG&E Substation would not emit TACs, and toxic contaminants are not anticipated to be present at the PG&E Substation site; as such, a formal health risk assessment will not be required for the PG&E Substation. Accordingly, the PG&E Substation is not anticipated to result in emissions that would exceed the SJVAPCD Board-adopted health risk notification thresholds.

Health Impacts of Carbon Monoxide

As described previously, exposure to high concentrations of CO can result in dizziness, fatigue, chest pain, headaches, and impairment of central nervous system functions. Mobile-source impacts, including those related to CO, occur essentially on two scales of motion. Regionally, PG&E Substation-related construction travel would add to regional trip generation and increase the vehicle miles traveled within the local airshed and the SJVAB. Locally, construction traffic would be added to the roadway system in the vicinity of the PG&E Substation site. Although the SJVAB is currently an attainment area for CO, there is a potential for the formation of microscale CO "hotspots" to occur immediately around points of congested traffic. Hotspots can form if such traffic occurs during periods of poor atmospheric ventilation, is composed of a large number of vehicles cold-started and operating at pollution-inefficient speeds, and/or is operating on roadways crowded with non- PG&E Substation traffic. Because of continued improvement in vehicular emissions at a

rate faster than the rate of vehicle growth and/or congestion, the potential for CO hotspots in the SJVAB is steadily decreasing.

The SJVAPCD Guidance for Assessing and Mitigating Air Quality Impacts states that a quantitative CO hotspots analysis be performed if either of the following two conditions exist: (1) a traffic study for the project indicates that the level of service (LOS) on one or more streets or at one or more intersections in the project vicinity will be reduced to LOS E or F, or (2) a traffic study indicates that the project will substantially worsen an already existing LOS F on one or more streets or at more or more intersections in the project vicinity (SJVAPCD 2015). The PG&E Substation would cause a temporary increase in traffic during the 7-month construction period. However, the PG&E Substation would not increase activity during operation due to the upgrades. Therefore, the PG&E Substation would not materially contribute to the local traffic or impact local intersections level of service. As such, impacts to sensitive receptors with regard to potential CO hotspots resulting from the PG&E Substation's contribution to cumulative traffic-related air quality impacts would be less than significant.

Health Impacts of Other Criteria Air Pollutants

Construction of the PG&E Substation would not exceed the SJVAPCD threshold for ROGs. Specific ROGs may be TACs; however, ROGs are not expected to present risk of health impacts even if the specific ROGs associated with PG&E Substation construction aren't entirely known. Some ROGs would be associated with motor vehicles and construction equipment, whereas others are associated with architectural coatings, the emissions of which would not result in the exceedances of the SJVAPCD's threshold as shown in Table 3. Generally, the ROGs in architectural coatings are of relatively low toxicity. Additionally, SJVAPCD Rule 4601 restricts the ROG content of coatings for both construction and operational applications.

Operation of the PG&E Substation would not result in emissions that exceed the SJVAPCD's emission thresholds for any criteria air pollutants, including ROGs, NO_x, CO, SO_x, PM_{10}, or $PM_{2.5}$. Regarding ROGs, some ROGs would be associated with motor vehicles and construction equipment, while others are associated with architectural coatings, the emissions of which would not result in the exceedances of the SJVAPCD's thresholds as shown in Table 3. Generally, the ROGs in architectural coatings are of relatively low toxicity.

In addition, ROGs and NO_x are precursors to O_3, for which the SJVAB is designated as nonattainment with respect to the NAAQS and CAAQS (the Environmental Protection Agency has designated the SJVAB as a nonattainment area for the federal 8-hour O_3 standard, and CARB has designated the SJVAB as a nonattainment area for the state 1-hour and 8 hour O_3 standards). The health effects associated with O_3 are generally associated with reduced lung function. The contribution of ROGs and NO_x to regional ambient O_3 concentrations is the result of complex photochemistry. The increases in O_3 concentrations in the SJVAB due to O_3 precursor emissions tend to be found downwind from the source location to allow time for the photochemical reactions to occur. However, the potential for exacerbating excessive O_3 concentrations would also depend on the time of year that the ROG emissions would occur because exceedances of the O_3 ambient air quality standards tend to occur between April and October, when solar radiation is highest.

The holistic effect of a single PG&E Substation's emissions of O_3 precursors is speculative due to the lack of quantitative methods to assess this impact. Nonetheless, the ROG and NO_x emissions associated with PG&E Substation construction could minimally contribute to regional O_3 concentrations and the associated health impacts. O_3 health impacts are associated with respiratory irritation, which may be experienced by nearby receptors during the periods of heaviest use of off-road construction equipment. The PG&E Substation would not exceed the SJVAPCD threshold for O_3 precursor NO_x

during construction thus there would be a less than significant impact during construction. In addition, the long-term operational emissions would not exceed any significance thresholds for O_3 precursors.

Construction and operation of the PG&E Substation would not exceed thresholds for PM_{10} or $PM_{2.5}$ and would not contribute to exceedances of the NAAQS and CAAQS for particulate matter. The PG&E Substation would also not result in substantial DPM emissions during construction and operation and therefore, would not result in significant health effects related to DPM exposure. Because the PG&E Substation would not exceed thresholds for PM_{10} or $PM_{2.5}$ during construction and operation, health impacts would be less than significant.

Regarding NO_2, according to the construction emissions analysis, construction of the PG&E Substation would not contribute to exceedances of the NAAQS and CAAQS for NO_2 during construction. Emissions from construction of the PG&E Substation would be short-term in duration, and the long-term operational emissions would not exceed any significance thresholds. NO_2 and NO_x health impacts are associated with respiratory irritation, which may be experienced by nearby receptors during the periods of heaviest use of off-road construction equipment. Therefore, the construction- and operation-related health impacts for NO_2 would be considered less than significant.

3.3.4 Would the project result in other emissions (such as those leading to odors) adversely affecting a substantial number of people?

The occurrence and severity of potential odor impacts depends on numerous factors. The nature, frequency, and intensity of the source; the wind speed and direction; and the sensitivity of receiving location all contribute to the intensity of the impact. Although offensive odors seldom cause physical harm, they can be annoying and cause distress among the public and generate citizen complaints.

Project

Odors would be potentially generated from vehicles and equipment exhaust emissions during construction of the project. Potential odors produced during construction would be attributable to concentrations of unburned hydrocarbons from tailpipes of construction equipment and asphalt pavement application. Such odors would disperse rapidly from the project site and generally occur at magnitudes that would not affect substantial numbers of people. Therefore, impacts associated with odors during construction would be less than significant.

Land uses and industrial operations associated with odor complaints include agricultural uses, wastewater treatment plants, food-processing plants, chemical plants, composting operations, refineries, landfills, dairies, and fiberglass molding facilities (SCAQMD 1993). The project would not create any new sources of odor during operation as identified within Table 4. Therefore, project operations would result in an odor impact that would be less than significant.

PG&E Substation

Odors would be potentially generated from vehicles and equipment exhaust emissions during construction of the PG&E Substation. Potential odors produced during construction would be attributable to concentrations of unburned hydrocarbons from tailpipes of construction equipment and asphalt pavement application. Such odors would disperse rapidly from the PG&E Substation site and generally occur at magnitudes that would not affect substantial numbers of people. Therefore, impacts associated with odors during construction would be less than significant.

Land uses and industrial operations associated with odor complaints include agricultural uses, wastewater treatment plants, food-processing plants, chemical plants, composting operations, refineries, landfills, dairies, and fiberglass molding facilities (SCAQMD 1993). The proposed PG&E Substation would not create any new sources of odor during operation as identified within Table 4. Therefore, PG&E Substation operations would result in an odor impact that would be less than significant.

4 Greenhouse Gas Emissions Assessment

4.1 Thresholds of Significance

The significance criteria used to evaluate the Project's GHG emissions impacts is based on the recommendations provided in Appendix G of the CEQA Guidelines. For the purposes of this GHG emissions analysis, the Project would have a significant environmental impact if it would (14 CCR 15000 et seq.):

1. Generate GHG emissions, either directly or indirectly, that may have a significant impact on the environment?

2. Conflict with an applicable plan, policy, or regulation adopted for the purpose of reducing the emissions of GHGs?

Global climate change is a cumulative impact; a project participates in this potential impact through its incremental contribution combined with the cumulative increase of all other sources of GHGs. In addition, while GHG impacts are recognized exclusively as cumulative impacts (CAPCOA 2008), GHG emissions impacts must also be evaluated on a project-level under CEQA.

SJVAPCD

In August 2008, the SJVAPCD adopted a Climate Change Action Plan (CCAP). The CCAP directed the Air Pollution Control Officer to develop guidance documents to assist land–use and other permitting agencies in addressing GHG emissions as part of the CEQA process. The SJVAPCD has adopted the guidance in *Guidance for Valley Land-Use Agencies in Addressing GHG Emission Impacts for New Projects Under CEQA* and the policy, *Addressing GHG Emission Impacts for Stationary Source Projects Under CEQA When Serving as the Lead Agency*. The guidance and policy rely on the use of performance based standards, otherwise known as Best Performance Standards (BPS) to assess significance of project specific GHG emissions on global climate change during the environmental review process. However, SJVAPCD's adopted BPS are specifically directed at reducing GHG emissions from stationary sources; therefore, the adopted BPS would not generally be applicable to the project as the project would not be a stationary source of emissions. The SJVAPCD guidance does not limit a lead agency's authority in establishing its own process and guidance for determining significance of project related impacts on global climate change. SJVAPCD supports the use of the interim thresholds as established by the California Air Pollution Control Officers Association (CAPCOA) when adopted thresholds are not applicable. As such, for the purposes of establishing a quantitative threshold for GHG emissions, the interim threshold for operational emissions of industrial projects established by CAPCOA is used herein. This threshold is consistent with California's climate-stabilization target (identified in AB 32). As a conservative estimate, GHG emissions include construction emissions annualized over the 30-year life of the project, as well as operational emissions.

Amendments to Section 15064.4 of the CEQA Guidelines were adopted to assist lead agencies in determining the significance of the impacts of GHG emissions. Section 15064.4 specifies that a lead agency "shall make a good-faith effort, based to the extent possible on scientific and factual data, to describe, calculate or estimate the amount of greenhouse gas emissions resulting from a project." Section 15064.4 also provides lead agencies with the discretion to determine whether to assess those emissions quantitatively or to rely on a qualitative analysis or performance-based standards. In addition, the CEQA Guidelines specify that "[w]hen adopting or using thresholds of significance, a lead agency may consider thresholds of significance previously adopted or recommended by other public agencies, or recommended by experts, provided the decision of the lead agency to adopt such thresholds is supported by substantial evidence" (14 CCR 15064.7[c]).

In the absence of a locally adopted numeric threshold by the County of San Joaquin, projects are to be evaluated according to CEQA Guidelines Section 15064.7(c) by considering whether a project's GHG emissions meet the CAPCOA 900 MT CO_2e per year screening level threshold (SLT). The SLT was developed based on various land use densities and future discretionary project types to determine the size of projects that would likely have a less than cumulatively considerable contribution to climate change.

The CAPCOA threshold was developed to ensure capture of 90 percent or more of likely future discretionary developments. The objective was to set the emissions threshold low enough to capture a substantial fraction of future development while setting the emission threshold high enough to exclude small development projects that would contribute a relatively small fraction of cumulative statewide GHG emissions. A development capacity threshold was determined to capture approximately 90 percent of residential units. GHG emissions associated with 50 single-family residential units were estimated and found to be 900 MT CO_2e, establishing the basis for demonstrating that cumulative reductions are being achieved across the state for residential development.

CAPCOA's 900 MT CO_2e per year threshold was developed in order to meet Assembly Bill (AB) 32 State target of reducing emissions to 1990 levels by year 2020. Since adoption evaluation of this threshold, Senate Bill (SB) 32 was passed to set a revised statewide reduction target to reduce emissions to 40 percent below 1990 levels by year 2030. Though the CAPCOA threshold does not consider the reduction targets set by SB 32, the CAPCOA threshold was developed with an aggressive project-level GHG emission capture rate of 90 percent.

As a comparison to the CAPCOA threshold, other regional air districts such as the Sacramento Metropolitan Air Quality Management District (SMAQMD) have update their GHG emission significance thresholds to ensure future projects help meet the State's 2030 emission reduction target and do not result in a cumulative impact to climate change. In April 2020 the SMAQMD published updated project screening levels and determined that project's estimated to generate less than 1,100 MT CO_2e per year would not result in a significant cumulative impact[6]. This threshold was developed to demonstrate compliance with the statewide reduction targets in 2030 and the SLT was determined by SMAQMD to capture 98 percent of total GHG emissions.

The CAPCOA threshold of 900 MT CO_2e represents a more stringent screening level than has been approved by other air districts in compliance with 2030 statewide reduction targets. Due to the aggressive GHG emission capture rate, the CAPCOA threshold would still act as a viable threshold to reduce project GHG emissions proposed after 2020 and meet SB 32 targets. Furthermore, as State legislative requirements such as Building Energy

[6] Sacramento Metropolitan Air Quality Management District (SMAQMD). 2020. *Greenhouse Gas Thresholds for Sacramento County*. Available: http://www.airquality.org/LandUseTransportation/Documents/SMAQMDGHGThresholds2020-03-04v2.pdf. Accessed. August 11, 2020.

Efficiency Standards and transportation-related efficiency measures become increasingly more stringent overtime, future project GHG emissions would be reduced helping to meet State emission reduction targets. Projects that would generate emissions beyond the 900 MT CO_2e per year SLT would be required to implement feasible onsite mitigation measures to reduce their impacts on climate change. Projects that meet or fall below CAPCOA's SLT threshold are expected to result in 900 MT CO_2e per year of GHG emissions or less and would not require additional analysis.

4.2 Impact Analysis

4.2.1 Would the project generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?

Project

Construction and Decommissioning Emissions

Construction and decommissioning of the project would result in GHG emissions, which are primarily associated with use of off-road construction equipment, on-road vendor trucks, and worker vehicles. As stated above, the SJVAPCD recommends that construction emissions be amortized over a 30-year project lifetime; therefore, the total construction and decommissioning GHG emissions were calculated, amortized over 30 years, and then compared to the CAPCOA operational GHG significance threshold of 900 MT CO_2e per year.

CalEEMod was used to estimate GHG emissions during construction and decommissioning. Construction of the project is anticipated to last up to 17 months and decommissioning 6 months. On-site sources of GHG emissions include off-road equipment and off-site sources include on-road vehicles (vendor trucks and worker vehicles). Table 8 presents construction and decommissioning GHG emissions for the project from on-site and off-site emission sources.

Table 8. Estimated Annual Construction and Decommissioning GHG Emissions – Project

Year	CO_2	CH_4	N_2O	CO_2e
	Metric Tons			
2022	1,152.73	0.27	0.01	1,162.59
2023	480.13	0.08	0.00	483.31
2052	313.04	0.01	0.00	313.31
			Total	1,959.21
			Annualized emissions over 30 years (metric tons per year)	*65.31*

Notes: GHG = greenhouse gas; CO_2 = carbon dioxide; CH_4 = methane; N_2O = nitrous oxide; CO_2e = carbon dioxide equivalent.
See Attachment A for complete results.

As shown in Table 8, the estimated total GHG emissions during construction and decommissioning of the project would be approximately 1,959 MT CO_2e. Estimated project-generated construction and decommissioning emissions amortized over 30 years would be approximately 65 MT CO_2e per year. As with project-generated construction air

quality pollutant emissions, GHG emissions generated during construction of the project would be short-term in nature, lasting only for the duration of the construction period, and would not represent a long-term source of GHG emissions. Because there is no separate GHG threshold for construction, the evaluation of significance is determined by adding the amortized construction emissions to the operational emissions and comparing them to the operational threshold.

Operational Emissions

CalEEMod was used to estimate potential project-generated operational GHG emissions from area sources, energy sources (electricity), mobile sources, off-road equipment, solid waste, and water and wastewater. Emissions from each category are discussed in the following text with respect to the project. For additional details, see Section 2.2 for a discussion of operational emission calculation methodology and assumptions. Operational year 2023 was assumed as the first year of operation. Table 9 shows the estimated operational emissions from the project.

Table 9. Estimated Annual Operation GHG Emissions – Project

Emissions Source	CO_2	CH_4	N_2O	CO_2e
	Metric Tons per Year			
Area	0.00	0.00	0.00	6.73
Energy	56.59	0.01	0.00	57.14
Mobile	6.53	0.00	0.00	6.66
Off-road	0.25	0.00	0.00	0.26
Waste	0.47	0.03	0.00	1.17
Water	0.36	0.01	0.00	0.83
Amortized construction and decommissioning emissions				*65.31*
Total				**131.36**
CAPCOA Threshold				*900*
Threshold Exceeded?				No

Notes: GHG = greenhouse gas; CO_2 = carbon dioxide; CH_4 = methane; N_2O = nitrous oxide; CO_2e = carbon dioxide equivalent; CAPCOA = California Air Pollution Control Officers Association.
See Attachment A for complete results.

As shown in Table 9, the estimated total GHG emissions during operation of the project would be approximately 131 MT CO_2e per year, including amortized construction and decommissioning emissions. The project would not exceed the CAPCOA threshold of 900 MT CO_2e per year. Projects below this significance criterion have a minimal contribution to global emissions and are considered to have less than significant impacts. Therefore, operational impacts associated with directly or indirectly generating a significant quantity of GHG emissions would be less than significant.

PG&E Substation

Construction Emissions

Construction of the proposed PG&E Substation would result in GHG emissions, which are primarily associated with use of off-road construction equipment, on-road vendor trucks, and worker vehicles. As stated above, the SJVAPCD

recommends that construction emissions be amortized over a 30-year project lifetime; therefore, the total construction GHG emissions were calculated, amortized over 30 years, and then compared to the CAPCOA operational GHG significance threshold of 900 MT CO_2e per year.

CalEEMod was used to estimate GHG emissions during construction. Construction of the PG&E Substation is anticipated to last up to 8 months. On-site sources of GHG emissions include off-road equipment and off-site sources include on-road vehicles (vendor trucks and worker vehicles). Table 10 presents construction GHG emissions for the PG&E Substation from on-site and off-site emission sources.

Table 10. Estimated Annual Construction GHG Emissions - PG&E Substation

Year	CO_2	CH_4	N_2O	CO_2e
	Metric Tons			
2022	262.88	0.06	0.00	265.30
2023	13.29	0.00	0.00	13.42
			Total	**278.72**
			Annualized emissions over 30 years (metric tons per year)	***9.29***

Notes: GHG = greenhouse gas; CO_2 = carbon dioxide; CH_4 = methane; N_2O = nitrous oxide; CO_2e = carbon dioxide equivalent.
See Attachment B for complete results.

As shown in Table 10, the estimated total GHG emissions during construction and decommissioning of the proposed PG&E Substation would be approximately 279 MT CO_2e. Estimated PG&E Substation-generated construction and decommissioning emissions amortized over 30 years would be approximately 9 MT CO_2e per year. As with project-generated construction air quality pollutant emissions, GHG emissions generated during construction of the PG&E Substation would be short-term in nature, lasting only for the duration of the construction period, and would not represent a long-term source of GHG emissions. Because there is no separate GHG threshold for construction, the evaluation of significance is determined by adding the amortized construction emissions to the operational emissions and comparing them to the operational threshold.

Operational Emissions

As discussed in Section 2.2.2, the PG&E Substation would not increase operational activity beyond what currently takes place. Therefore, the amortized construction emissions of 9 MT CO_2e per year would not exceed the CAPCOA threshold of 900 MT CO_2e per year. Projects below this significance criterion have a minimal contribution to global emissions and are considered to have less than significant impacts. Therefore, operational impacts associated with directly or indirectly generating a significant quantity of GHG emissions would be less than significant.

4.2.2 Would the project conflict with an applicable plan, policy, or regulation adopted for the purpose of reducing the emissions of greenhouse gases?

Project

Consistency with the County of San Joaquin General Plan

The County's General Plan 2035 outlines estimated GHG emissions and sustainability measures to reach the County's GHG reduction goals for 2035 and 2050. Table 11 provides an overview of the measures and goals within the General Plan that are applicable to the project and the project's consistency with them. As shown in Table 11, the project does not conflict with any of the GHG reducing measures or goals within the General Plan and thus is consistent with the plan. It should also be noted that the project would not inhibit the County from implementing any of the measures not listed in Table 11 as they do not apply to the project.

Table 11. Project Consistency with the County's General Plan 2035 Greenhouse Gas Emission Reduction Strategies

Goal	General Plan Measure	Project Consistency
LU-1.13	**Regional Growth Considerations.** The County shall consider the San Joaquin Council of Governments Regional Transportation Plan, including the Sustainable Communities Strategy or Alternative Planning Strategy, and adopted city general plans and those of surrounding counties each time it considers an update to the General Plan or any master plan, strategy, or zone.	Consistent. As discussed in Section 3.2.1, the project would be consistent with the underlying zoning for the site. Furthermore, the project would not be growth inducing outside of what is currently included within the San Joaquin Council of Governments Regional Transportation Plan as shown in the following section.
C-4.3	**Consistent Planning.** For land that is within a City Fringe Area, the County shall generally maintain General Plan land use designations that are consistent with the city's adopted General Plan, provided a city's planned growth patterns and development are consistent with the San Joaquin Council of Government's Regional Transportation Plan and Sustainable Communities Strategy, provide for compact growth patterns and higher-density, mixed-use development, and include provisions to permanently preserve agricultural land within the County. The County shall maintain jurisdiction over development decisions in all unincorporated areas until annexations occur.	Consistent. As discussed in Section 3.2.1, the project would be consistent with the underlying zoning for the site. Furthermore, the project would not be growth inducing outside of what is currently included within the San Joaquin Council of Governments Regional Transportation Plan as shown in the following section.
PHS-6.2	**Community GHG Reduction Targets.** The County shall reduce community greenhouse gas emissions by 15 percent below 2005 levels by 2020, and shall strive to reduce GHG emissions by 40 percent and 80 percent below reduced 2020 levels by 2035 and 2050, respectively.	Consistent. The project would support the generation, storage, and use of renewable energy within the County as PG&E strives to meet the goals within SB 100.
PHS-6.6	**Business-related GHG Reduction Strategies.** The County shall encourage all businesses to help reduce GHG emissions by: replacing high mileage fleet vehicles with more efficient and/or alternative fuel vehicles; increasing the energy efficiency of facilities; transitioning toward the use of renewable energy instead of non-renewable energy	Consistent. The project would support the generation, storage, and use of renewable energy within the County as PG&E strives to meet the goals within SB 100.

Table 11. Project Consistency with the County's General Plan 2035 Greenhouse Gas Emission Reduction Strategies

Goal	General Plan Measure	Project Consistency
	sources; adopting purchasing practices that promote emissions reductions and reusable materials; and increasing recycling.	
PHS-6.7	**New Development.** The County shall require new development to incorporate all feasible mitigation measures to reduce construction and operational GHG emissions.	Consistent. The project would result in less than significant GHG emissions as analyzed in Section 4.2.1.
NCR-5.1	**Nonrenewable Energy and Energy Efficiency.** The County shall support the efforts of residents, businesses, and energy providers to reduce the consumption of nonrenewable energy and shall promote energy providers' programs to increase energy efficiency and implement demand response programs.	Consistent. The project would support the generation, storage, and use of renewable energy within the County as PG&E strives to meet the goals within SB 100.
NCR-5.2	**Alternative Energy.** The County shall encourage residents, businesses, and energy providers to develop and use alternative, renewable energy sources, including but not limited to, biomass, solar, wind, and geothermal.	Consistent. The project would support the generation, storage, and use of renewable energy within the County as PG&E strives to meet the goals within SB 100.

Source: San Joaquin County 2014.

Consistency with the 2018 SJCOG RTP/SCS

The San Joaquin Council of Government's (SJCOG's) 2018 Regional Transportation Plan/Sustainable Communities Strategy (RTP/SCS) is a regional growth-management strategy that targets per capita GHG reduction from passenger vehicles and light-duty trucks in the San Joaquin Valley region. The 2018 RTP/SCS incorporates local land use projections and circulation networks in city and county general plans. Typically, a project would be consistent with the RTP/SCS if the project does not exceed the underlying growth assumptions within the RTP/SCS. Because the project is not growth inducing, this type of consistency analysis does not apply. Furthermore, the project is not a transportation-related project and thus would not inhibit the SJCOG from implementing the policies and strategies within the RTP/SCS and therefore would not conflict with the plan.

Consistency with the California Air Resources Board Scoping Plan

The California Air Resources Board (CARB) Scoping Plan (approved by CARB in 2008 and updated in 2014 and 2017) provides a framework for actions to reduce California's GHG emissions and requires CARB and other state agencies to adopt regulations and other initiatives to reduce GHG emissions. The Scoping Plan is not directly applicable to specific projects, nor is it intended to be used for project-level evaluations.[7] It does provide

[7] The Final Statement of Reasons for the amendments to the CEQA Guidelines reiterates the statement in the Initial Statement of Reasons that "[t]he Scoping Plan may not be appropriate for use in determining the significance of

recommendations for lead agencies to develop evidence-based numeric thresholds consistent with the Scoping Plan, the state's long-term GHG goals, and climate change science. Under the Scoping Plan, however, there are several state regulatory measures aimed at the identification and reduction of GHG emissions. CARB and other state agencies have adopted many of the measures identified in the Scoping Plan. Most of these measures focus on area source emissions (e.g., energy usage, high-GWP GHGs in consumer products) and changes to the vehicle fleet (i.e., hybrid, electric, and more fuel-efficient vehicles) and associated fuels (e.g., Low Carbon Fuel Standard), among others.

The Scoping Plan recommends strategies for implementation at the statewide level to meet the goals of AB 32 and establishes an overall framework for the measures that will be adopted to reduce California's GHG emissions. Table 12 highlights measures that have been, or will be, developed under the Scoping Plan and presents the project's consistency with applicable Scoping Plan measures. The project would comply with all regulations adopted in furtherance of the Scoping Plan to the extent required by law and to the extent that they are applicable to the project.

Table 12. Project Consistency with Scoping Plan GHG Emission Reduction Strategies

Scoping Plan Measure	Measure Number	Project Consistency
Transportation Sector		
Advanced Clean Cars	T-1	*Consistent.* The project's employees would purchase vehicles in compliance with CARB vehicle standards that are in effect at the time of vehicle purchase.
Low Carbon Fuel Standard	T-2	*Consistent.* Motor vehicles driven by the project's employees would use compliant fuels.
Electricity and Natural Gas Sector		
Energy Efficiency Measures (Electricity)	E-1	*Consistent.* The project would be constructed in accordance with CALGreen and Title 24 building standards.
Energy Efficiency (Natural Gas)	CR-1	*Consistent.* The project would be constructed in accordance with CALGreen and Title 24 building standards.
Renewables Portfolio Standard (33% by 2020)	E-3	*Consistent.* The project would support the development of renewable energy through energy storage.
Renewables Portfolio Standard (50% by 2050)	N/A	*Consistent.* The project would support the development of renewable energy through energy storage.
Recycling and Waste Management Sector		
Mandatory Commercial Recycling	RW-3	*Consistent.* The project would include recycling during both construction and operation.

individual projects because it is conceptual at this stage and relies on the future development of regulations to implement the strategies identified in the Scoping Plan" (CNRA 2009).

Table 12. Project Consistency with Scoping Plan GHG Emission Reduction Strategies

Scoping Plan Measure	Measure Number	Project Consistency
High GWP Gases Sector		
SF_6 Leak Reduction Gas Insulated Switchgear	H-6	*Consistent.* The project would maintain its switchgear or substation equipment to minimize leakage of SF_6 in accordance with state and local regulations.

Source: CARB 2008, 2017.
Notes: GHG = greenhouse gas; CARB = California Air Resources Board; N/A = not applicable; VMT = vehicle miles traveled; CALGreen = California Green Building Standards; SB = Senate Bill; GWP = global warming potential; SF_6 = sulfur hexafluoride.

Based on the analysis in Table 12, the project would be consistent with the applicable strategies and measures in the Scoping Plan.

The project would not impede the attainment of the GHG reduction goals for 2030 or 2050 identified in Executive Order (EO) S-03-05 and SB 32. EO S-03-05 establishes the following goals: GHG emissions should be reduced to 2000 levels by 2010, to 1990 levels by 2020, and to 80% below 1990 levels by 2050. SB 32 establishes for a statewide GHG emissions reduction target whereby CARB, in adopting rules and regulations to achieve the maximum technologically feasible and cost-effective GHG emissions reductions, shall ensure that statewide GHG emissions are reduced to at least 40% below 1990 levels by December 31, 2030. While there are no established protocols or thresholds of significance for that future year analysis, CARB forecasts that compliance with the current Scoping Plan puts the state on a trajectory toward meeting these long-term GHG goals, although the specific path to compliance is unknown (CARB 2014).

To begin, CARB has expressed optimism with regard to both the 2030 and 2050 goals. It states in the First Update to the Climate Change Scoping Plan that "California is on track to meet the near-term 2020 GHG emissions limit and is well positioned to maintain and continue reductions beyond 2020 as required by AB 32" (CARB 2014). With regard to the 2050 target for reducing GHG emissions to 80% below 1990 levels, the First Update to the Climate Change Scoping Plan states the following (CARB 2014):

> This level of reduction is achievable in California. In fact, if California realizes the expected benefits of existing policy goals (such as 12,000 megawatts of renewable distributed generation by 2020, net zero energy homes after 2020, existing building retrofits under AB 758, and others) it could reduce emissions by 2030 to levels squarely in line with those needed in the developed world and to stay on track to reduce emissions to 80% below 1990 levels by 2050. Additional measures, including locally driven measures and those necessary to meet federal air quality standards in 2032, could lead to even greater emission reductions.

In other words, CARB believes that the state is on a trajectory to meet the 2030 and 2050 GHG reduction targets set forth in AB 32, SB 32, and EO S-03-05. This is confirmed in the Second Update (CARB 2017), which states:

> The Proposed Plan builds upon the successful framework established by the Initial Scoping Plan and First Update, while also identifying new, technologically feasibility and cost-effective strategies to ensure that California meets its GHG reduction targets in a way that promotes and rewards innovation, continues to foster economic growth, and delivers improvements to the environment and

public health, including in disadvantaged communities. The Proposed Plan is developed to be consistent with requirements set forth in AB 32, SB 32, and AB 197.

The project would not interfere with implementation of any of the previously described GHG reduction goals for 2030 or 2050 because the project would not exceed CAPCOA's recommended screening threshold of 900 MT CO_2e per year. Because the project would not exceed the threshold, this analysis provides support for the conclusion that the project would not impede the state's trajectory toward the previously described statewide GHG reduction goals for 2030 or 2050.

As discussed previously, the project is consistent with the GHG emission reduction measures in the Scoping Plan and would not conflict with the state's trajectory toward future GHG reductions. In addition, since the specific path to compliance for the state in regard to the long-term goals will likely require development of technology or other changes that are not currently known or available, specific additional mitigation measures for the project would be speculative and cannot be identified at this time. The project's consistency would assist in meeting the City's contribution to GHG emission reduction targets in California. With respect to future GHG targets under SB 32 and EO S-03-05, CARB has also made clear its legal interpretation is that it has the requisite authority to adopt whatever regulations are necessary, beyond the AB 32 horizon year of 2020, to meet SB 32's 40% reduction target by 2030 and EO S-03-05's 80% reduction target by 2050; this legal interpretation by an expert agency provides evidence that future regulations will be adopted to allow the state to continue on its trajectory toward meeting these future GHG targets. Based on the considerations previously outlined, the project would not conflict with an applicable plan, policy, or regulation adopted for the purpose of reducing the emissions of GHGs, and no mitigation is required. Therefore, the project's impact associated with an applicable plan, policy, or regulation adopted for the purpose of reducing the emissions of GHGs would be less than significant.

PG&E Substation

Consistency with the County of San Joaquin General Plan

The County's General Plan 2035 outlines estimated GHG emissions and sustainability measures to reach the County's GHG reduction goals for 2035 and 2050. Table 13 provides an overview of the measures and goals within the General Plan that are applicable to the PG&E Substation and the PG&E Substation's consistency with them. As shown in Table 13, the PG&E Substation does not conflict with any of the GHG reducing measures or goals within the General Plan and thus is consistent with the plan. It should also be noted that the PG&E Substation would not inhibit the County from implementing any of the measures not listed in Table 13 as they do not apply to the PG&E Substation.

Table 13. PG&E Substation Consistency with the County's General Plan 2035 Greenhouse Gas Emission Reduction Strategies

Goal	General Plan Measure	PG&E Substation Consistency
LU-1.13	**Regional Growth Considerations.** The County shall consider the San Joaquin Council of Governments Regional Transportation Plan, including the Sustainable Communities Strategy or Alternative Planning Strategy, and adopted city general plans and those of surrounding counties each time it considers	Consistent. As discussed in Section 3.2.1, the PG&E Substation would be consistent with the underlying zoning for the site. Furthermore, the PG&E Substation would not be growth inducing outside of what is currently included within the San Joaquin Council of Governments Regional

Table 13. PG&E Substation Consistency with the County's General Plan 2035 Greenhouse Gas Emission Reduction Strategies

Goal	General Plan Measure	PG&E Substation Consistency
	an update to the General Plan or any master plan, strategy, or zone.	Transportation Plan as shown in the following section.
C-4.3	**Consistent Planning.** For land that is within a City Fringe Area, the County shall generally maintain General Plan land use designations that are consistent with the city's adopted General Plan, provided a city's planned growth patterns and development are consistent with the San Joaquin Council of Government's Regional Transportation Plan and Sustainable Communities Strategy, provide for compact growth patterns and higher-density, mixed-use development, and include provisions to permanently preserve agricultural land within the County. The County shall maintain jurisdiction over development decisions in all unincorporated areas until annexations occur.	Consistent. As discussed in Section 3.2.1, the PG&E Substation would be consistent with the underlying zoning for the site. Furthermore, the PG&E Substation would not be growth inducing outside of what is currently included within the San Joaquin Council of Governments Regional Transportation Plan as shown in the following section.
PHS-6.2	**Community GHG Reduction Targets.** The County shall reduce community greenhouse gas emissions by 15 percent below 2005 levels by 2020, and shall strive to reduce GHG emissions by 40 percent and 80 percent below reduced 2020 levels by 2035 and 2050, respectively.	Consistent. The PG&E Substation would support the generation, storage, and use of renewable energy within the County as PG&E strives to meet the goals within SB 100.
PHS-6.6	**Business-related GHG Reduction Strategies.** The County shall encourage all businesses to help reduce GHG emissions by: replacing high mileage fleet vehicles with more efficient and/or alternative fuel vehicles; increasing the energy efficiency of facilities; transitioning toward the use of renewable energy instead of non-renewable energy sources; adopting purchasing practices that promote emissions reductions and reusable materials; and increasing recycling.	Consistent. The PG&E Substation would support the generation, storage, and use of renewable energy within the County as PG&E strives to meet the goals within SB 100.
PHS-6.7	**New Development.** The County shall require new development to incorporate all feasible mitigation measures to reduce construction and operational GHG emissions.	Consistent. The PG&E Substation would result in less than significant GHG emissions as analyzed in Section 4.2.1.
NCR-5.1	**Nonrenewable Energy and Energy Efficiency.** The County shall support the efforts of residents, businesses, and energy providers to reduce the consumption of nonrenewable energy and shall promote energy providers'	Consistent. The PG&E Substation would support the generation, storage, and use of renewable energy within the County as PG&E strives to meet the goals within SB 100.

Table 13. PG&E Substation Consistency with the County's General Plan 2035 Greenhouse Gas Emission Reduction Strategies

Goal	General Plan Measure	PG&E Substation Consistency
	programs to increase energy efficiency and implement demand response programs.	
NCR-5.2	**Alternative Energy.** The County shall encourage residents, businesses, and energy providers to develop and use alternative, renewable energy sources, including but not limited to, biomass, solar, wind, and geothermal.	Consistent. The PG&E Substation would support the generation, storage, and use of renewable energy within the County as PG&E strives to meet the goals within SB 100.

Source: San Joaquin County 2014.

Consistency with the 2018 SJCOG RTP/SCS

The San Joaquin Council of Government's (SJCOG's) 2018 Regional Transportation Plan/Sustainable Communities Strategy (RTP/SCS) is a regional growth-management strategy that targets per capita GHG reduction from passenger vehicles and light-duty trucks in the San Joaquin Valley region (SJCOG 2018). The 2018 RTP/SCS incorporates local land use projections and circulation networks in city and county general plans. Typically, a project would be consistent with the RTP/SCS if the project does not exceed the underlying growth assumptions within the RTP/SCS. Because the PG&E Substation is not growth inducing, this type of consistency analysis does not apply. Furthermore, the PG&E Substation is not a transportation-related project and thus would not inhibit the SJCOG from implementing the policies and strategies within the RTP/SCS and therefore would not conflict with the plan.

Consistency with the California Air Resources Board Scoping Plan

The CARB Scoping Plan (approved by CARB in 2008 and updated in 2014 and 2017) provides a framework for actions to reduce California's GHG emissions and requires CARB and other state agencies to adopt regulations and other initiatives to reduce GHG emissions. The Scoping Plan is not directly applicable to specific projects, nor is it intended to be used for project-level evaluations.[8] It does provide recommendations for lead agencies to develop evidence-based numeric thresholds consistent with the Scoping Plan, the state's long-term GHG goals, and climate change science. Under the Scoping Plan, however, there are several state regulatory measures aimed at the identification and reduction of GHG emissions. CARB and other state agencies have adopted many of the measures identified in the Scoping Plan. Most of these measures focus on area source emissions (e.g., energy usage, high-GWP GHGs in consumer products) and changes to the vehicle fleet (i.e., hybrid, electric, and more fuel-efficient vehicles) and associated fuels (e.g., Low Carbon Fuel Standard), among others.

The Scoping Plan recommends strategies for implementation at the statewide level to meet the goals of AB 32 and establishes an overall framework for the measures that will be adopted to reduce California's GHG emissions. Table 14

[8] The Final Statement of Reasons for the amendments to the CEQA Guidelines reiterates the statement in the Initial Statement of Reasons that "[t]he Scoping Plan may not be appropriate for use in determining the significance of individual projects because it is conceptual at this stage and relies on the future development of regulations to implement the strategies identified in the Scoping Plan" (CNRA 2009).

highlights measures that have been, or will be, developed under the Scoping Plan and presents the proposed PG&E Substation's consistency with applicable Scoping Plan measures. The PG&E Substation would comply with all regulations adopted in furtherance of the Scoping Plan to the extent required by law and to the extent that they are applicable to the PG&E Substation.

Table 14. PG&E Substation Consistency with Scoping Plan GHG Emission Reduction Strategies

Scoping Plan Measure	Measure Number	PG&E Substation Consistency
Transportation Sector		
Advanced Clean Cars	T-1	*Consistent.* The PG&E Substation's employees would purchase vehicles in compliance with CARB vehicle standards that are in effect at the time of vehicle purchase.
Low Carbon Fuel Standard	T-2	*Consistent.* Motor vehicles driven by the PG&E Substation's employees would use compliant fuels.
Electricity and Natural Gas Sector		
Energy Efficiency Measures (Electricity)	E-1	*Consistent.* The PG&E Substation would be constructed in accordance with CALGreen and Title 24 building standards.
Energy Efficiency (Natural Gas)	CR-1	*Consistent.* The PG&E Substation would be constructed in accordance with CALGreen and Title 24 building standards.
Renewables Portfolio Standard (33% by 2020)	E-3	*Consistent.* The PG&E Substation would support the development of renewable energy through energy storage.
Renewables Portfolio Standard (50% by 2050)	N/A	*Consistent.* The PG&E Substation would support the development of renewable energy through energy storage.
Recycling and Waste Management Sector		
Mandatory Commercial Recycling	RW-3	*Consistent.* The PG&E Substation would include recycling during both construction and operation.
High GWP Gases Sector		
SF_6 Leak Reduction Gas Insulated Switchgear	H-6	*Consistent.* The PG&E Substation would maintain its switchgear or substation equipment to minimize leakage of SF_6 in accordance with state and local regulations.

Source: CARB 2008, 2017.
Notes: GHG = greenhouse gas; CARB = California Air Resources Board; N/A = not applicable; VMT = vehicle miles traveled; CALGreen = California Green Building Standards; SB = Senate Bill; GWP = global warming potential; SF_6 = sulfur hexafluoride.

Based on the analysis in Table 14, the PG&E Substation would be consistent with the applicable strategies and measures in the Scoping Plan.

The PG&E Substation would not impede the attainment of the GHG reduction goals for 2030 or 2050 identified in Executive Order (EO) S-03-05 and SB 32. EO S-03-05 establishes the following goals: GHG emissions should be reduced to 2000 levels by 2010, to 1990 levels by 2020, and to 80% below 1990 levels by 2050. SB 32 establishes for a statewide GHG emissions reduction target whereby CARB, in adopting rules and regulations to achieve the maximum technologically feasible and cost-effective GHG emissions reductions, shall ensure that statewide GHG emissions are reduced to at least 40% below 1990 levels by December 31, 2030. While there are no established protocols or thresholds of significance for that future year analysis, CARB forecasts that compliance with the current Scoping Plan puts the state on a trajectory toward meeting these long-term GHG goals, although the specific path to compliance is unknown (CARB 2014).

To begin, CARB has expressed optimism with regard to both the 2030 and 2050 goals. It states in the First Update to the Climate Change Scoping Plan that "California is on track to meet the near-term 2020 GHG emissions limit and is well positioned to maintain and continue reductions beyond 2020 as required by AB 32" (CARB 2014). With regard to the 2050 target for reducing GHG emissions to 80% below 1990 levels, the First Update to the Climate Change Scoping Plan states the following (CARB 2014):

> This level of reduction is achievable in California. In fact, if California realizes the expected benefits of existing policy goals (such as 12,000 megawatts of renewable distributed generation by 2020, net zero energy homes after 2020, existing building retrofits under AB 758, and others) it could reduce emissions by 2030 to levels squarely in line with those needed in the developed world and to stay on track to reduce emissions to 80% below 1990 levels by 2050. Additional measures, including locally driven measures and those necessary to meet federal air quality standards in 2032, could lead to even greater emission reductions.

In other words, CARB believes that the state is on a trajectory to meet the 2030 and 2050 GHG reduction targets set forth in AB 32, SB 32, and EO S-03-05. This is confirmed in the Second Update (CARB 2017), which states:

> The Proposed Plan builds upon the successful framework established by the Initial Scoping Plan and First Update, while also identifying new, technologically feasibility and cost-effective strategies to ensure that California meets its GHG reduction targets in a way that promotes and rewards innovation, continues to foster economic growth, and delivers improvements to the environment and public health, including in disadvantaged communities. The Proposed Plan is developed to be consistent with requirements set forth in AB 32, SB 32, and AB 197.

The PG&E Substation would not interfere with implementation of any of the previously described GHG reduction goals for 2030 or 2050 because the PG&E Substation would not exceed CAPCOA's recommended screening threshold of 900 MT CO_2e per year. Because the PG&E Substation would not exceed the threshold, this analysis provides support for the conclusion that the PG&E Substation would not impede the state's trajectory toward the previously described statewide GHG reduction goals for 2030 or 2050.

As discussed previously, the PG&E Substation is consistent with the GHG emission reduction measures in the Scoping Plan and would not conflict with the state's trajectory toward future GHG reductions. In addition, since the specific path to compliance for the state in regard to the long-term goals will likely require development of technology or other changes that are not currently known or available, specific additional mitigation measures for the PG&E Substation would be speculative and cannot be identified at this time. The PG&E Substation's consistency would assist in meeting the City's contribution to GHG emission reduction targets in California. With

respect to future GHG targets under SB 32 and EO S-03-05, CARB has also made clear its legal interpretation is that it has the requisite authority to adopt whatever regulations are necessary, beyond the AB 32 horizon year of 2020, to meet SB 32's 40% reduction target by 2030 and EO S-03-05's 80% reduction target by 2050; this legal interpretation by an expert agency provides evidence that future regulations will be adopted to allow the state to continue on its trajectory toward meeting these future GHG targets. Based on the considerations previously outlined, the PG&E Substation would not conflict with an applicable plan, policy, or regulation adopted for the purpose of reducing the emissions of GHGs, and no mitigation is required. Therefore, the PG&E Substation's impact associated with an applicable plan, policy, or regulation adopted for the purpose of reducing the emissions of GHGs would be less than significant.

5 Conclusions

Project

Criteria air pollutant emissions generated during construction and operation of the project would not exceed SJVAPCD's significance thresholds or result in a cumulatively considerable net increase in emissions. Similarly, the emissions would also not expose sensitive receptors to substantial pollutant concentrations during construction or operations, or create a CO hotspot. The project would not be a source of odors or other emissions.

Estimated total GHG emissions generated during operation, including amortized construction emissions, would be below the threshold of 900 MT CO_2e per year. The project would not conflict with an applicable plan, policy, or regulation adopted for the purpose of reducing the emissions of GHGs, as there are currently no mandatory GHG regulations or finalized agency guidelines that would apply to implementation of this project. Accordingly, potential cumulative GHG impacts would be less than significant.

PG&E Substation

Criteria air pollutant emissions generated during construction and operation of the proposed PG&E Substation would not exceed SJVAPCD's significance thresholds or result in a cumulatively considerable net increase in emissions. Similarly, the emissions would also not expose sensitive receptors to substantial pollutant concentrations during construction or operations, or create a CO hotspot. The proposed PG&E Substation would not be a source of odors or other emissions.

Estimated total GHG emissions generated during operation, including amortized construction emissions, would be below the threshold of 900 MT CO_2e per year. The PG&E Substation would not conflict with an applicable plan, policy, or regulation adopted for the purpose of reducing the emissions of GHGs, as there are currently no mandatory GHG regulations or finalized agency guidelines that would apply to implementation of this project. Accordingly, potential cumulative GHG impacts would be less than significant.

Sincerely,

Adam Poll, QEP, LEED AP BD+C
Senior Air Quality Specialist

Cc: Jennifer Sucha, Dudek

Att: A – CalEEMod Emissions Outputs – Project
B – CalEEMod Emissions Outputs – PG&E Substation

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Attachment A

CalEEMod Emissions Outputs – Project

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

North Central Valley Energy Center Project

San Joaquin Valley Unified APCD Air District, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	2.50	1000sqft	0.06	2,500.00	0
Refrigerated Warehouse-No Rail	29.13	1000sqft	0.67	29,130.00	0

1.2 Other Project Characteristics

Urbanization	Rural	**Wind Speed (m/s)**	2.7	**Precipitation Freq (Days)**	45
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 - Based on project description.

Construction Phase - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.

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

Off-road Equipment - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.

Off-road Equipment -

Off-road Equipment - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.

Trips and VMT - Based on applicant provided information.

On-road Fugitive Dust - Assumes 0.25 miles of non-road travel per trip for vendor trucks. All other vehicles will park at staging/substation area.

Grading - Based on applicant provided information.

Vehicle Trips - 3 employees at the operations and maintenance building and water deliveries once per week

Consumer Products - No consumer products.

Landscape Equipment - No landscaping.

Energy Use - CalEEMod defaults.

Water And Wastewater - Water use for operations and maintenance building only.

Solid Waste - CalEEMod defaults for O&M building.

Construction Off-road Equipment Mitigation - In accordance with SJVAPCD Rule 8021.

Operational Off-Road Equipment - Based on applicant provided information.

Fleet Mix - Worker vehicles only for O&M building. HHD for water deliveries.

Table Name	Column Name	Default Value	New Value
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tblFleetMix	HHD	0.03	1.00
tblFleetMix	LDA	0.51	0.50

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

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tblFleetMix	LDT1	0.05	0.00
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tblFleetMix	LDT2	0.17	0.00
tblFleetMix	LHD1	0.03	0.00
tblFleetMix	LHD1	0.03	0.00
tblFleetMix	LHD2	7.8800e-003	0.00
tblFleetMix	LHD2	7.8800e-003	0.00
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tblFleetMix	MCY	0.02	0.00
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tblFleetMix	MDV	0.17	0.00
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tblGrading	MaterialImported	0.00	1,000.00
tblGrading	MaterialImported	0.00	700.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00

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

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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOnRoadDust	VendorPercentPave	100.00	98.90
tblOnRoadDust	VendorPercentPave	100.00	98.90
tblOnRoadDust	VendorPercentPave	100.00	98.90
tblOnRoadDust	VendorPercentPave	100.00	98.90
tblOnRoadDust	VendorPercentPave	100.00	98.90
tblOnRoadDust	VendorPercentPave	100.00	98.90
tblOnRoadDust	VendorPercentPave	100.00	98.90
tblOnRoadDust	VendorPercentPave	100.00	98.90
tblOnRoadDust	VendorPercentPave	100.00	98.90
tblOnRoadDust	VendorPercentPave	100.00	98.90
tblOnRoadDust	VendorPercentPave	100.00	98.90
tblOnRoadDust	VendorPercentPave	100.00	98.90
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	1.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	1.00
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblSolidWaste	SolidWasteGenerationRate	27.38	0.00
tblTripsAndVMT	HaulingTripNumber	0.00	2,640.00
tblTripsAndVMT	HaulingTripNumber	125.00	126.00

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

tblTripsAndVMT	HaulingTripNumber	169.00	170.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	5.00	20.00
tblTripsAndVMT	VendorTripNumber	5.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	5.00	20.00
tblTripsAndVMT	VendorTripNumber	5.00	20.00
tblTripsAndVMT	VendorTripNumber	5.00	2.00
tblTripsAndVMT	WorkerTripNumber	20.00	40.00
tblTripsAndVMT	WorkerTripNumber	13.00	40.00
tblTripsAndVMT	WorkerTripNumber	13.00	8.00
tblTripsAndVMT	WorkerTripNumber	20.00	40.00
tblTripsAndVMT	WorkerTripNumber	10.00	40.00
tblTripsAndVMT	WorkerTripNumber	20.00	40.00
tblTripsAndVMT	WorkerTripNumber	30.00	40.00
tblTripsAndVMT	WorkerTripNumber	20.00	40.00
tblTripsAndVMT	WorkerTripNumber	15.00	40.00
tblTripsAndVMT	WorkerTripNumber	13.00	40.00
tblTripsAndVMT	WorkerTripNumber	13.00	40.00
tblTripsAndVMT	WorkerTripNumber	13.00	10.00
tblVehicleTrips	ST_TR	2.21	2.40
tblVehicleTrips	ST_TR	2.12	0.07
tblVehicleTrips	SU_TR	0.70	2.40
tblVehicleTrips	SU_TR	2.12	0.00

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

tblVehicleTrips	WD_TR	9.74	2.40
tblVehicleTrips	WD_TR	2.12	0.00
tblWater	IndoorWaterUseRate	6,736,312.50	0.00
tblWater	OutdoorWaterUseRate	272,333.97	0.00

2.0 Emissions Summary

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

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2022	0.7350	7.2117	6.5142	0.0131	0.9482	0.3399	1.2881	0.3517	0.3178	0.6695	0.0000	1,152.7321	1,152.7321	0.2749	0.0100	1,162.5880
2023	0.2639	2.3664	2.9956	5.5100e-003	0.1447	0.1084	0.2531	0.0206	0.1039	0.1245	0.0000	480.1270	480.1270	0.0834	3.6700e-003	483.3077
2052	0.1367	0.5614	1.2482	3.6400e-003	0.0583	0.0123	0.0705	0.0125	0.0123	0.0248	0.0000	313.0366	313.0366	0.0108	0.0000	313.3062
Maximum	**0.7350**	**7.2117**	**6.5142**	**0.0131**	**0.9482**	**0.3399**	**1.2881**	**0.3517**	**0.3178**	**0.6695**	**0.0000**	**1,152.7321**	**1,152.7321**	**0.2749**	**0.0100**	**1,162.5880**

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	0.2769	4.3630	7.5202	0.0131	0.5215	0.0445	0.5660	0.1776	0.0432	0.2208	0.0000	1,152.7309	1,152.7309	0.2749	0.0100	1,162.5868
2023	0.1102	1.9823	3.3954	5.5100e-003	0.1026	0.0150	0.1176	0.0164	0.0149	0.0313	0.0000	480.1265	480.1265	0.0834	3.6700e-003	483.3072
2052	0.0669	0.8741	1.7913	3.6400e-003	0.0535	5.5500e-003	0.0590	0.0120	5.5500e-003	0.0176	0.0000	313.0362	313.0362	0.0108	0.0000	313.3058
Maximum	**0.2769**	**4.3630**	**7.5202**	**0.0131**	**0.5215**	**0.0445**	**0.5660**	**0.1776**	**0.0432**	**0.2208**	**0.0000**	**1,152.7309**	**1,152.7309**	**0.2749**	**0.0100**	**1,162.5868**

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**60.02**	**28.80**	**-18.12**	**0.00**	**41.14**	**85.87**	**53.92**	**46.47**	**85.35**	**67.08**	**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)
2	**11-13-2021**	**2-12-2022**	2.1948	0.9282
3	**2-13-2022**	**5-12-2022**	2.7959	1.6145
4	**5-13-2022**	**8-12-2022**	1.7820	0.9829
5	**8-13-2022**	**11-12-2022**	1.1278	0.7158
6	**11-13-2022**	**2-12-2023**	2.1648	1.6055
7	**2-13-2023**	**5-12-2023**	1.4417	1.1541
8	**5-13-2023**	**8-12-2023**	0.3076	0.2462
122	**11-13-2051**	**2-12-2052**	0.1624	0.2190
123	**2-13-2052**	**5-12-2052**	0.3400	0.4583
124	**5-13-2052**	**8-12-2052**	0.1927	0.2597
		Highest	2.7959	1.6145

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

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.1456	0.0000	2.9000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	5.7000e-004	5.7000e-004	0.0000	0.0000	6.0000e-004
Energy	4.0000e-004	3.6100e-003	3.0300e-003	2.0000e-005		2.7000e-004	2.7000e-004		2.7000e-004	2.7000e-004	0.0000	56.5931	56.5931	8.6000e-003	1.1000e-003	57.1372
Mobile	2.0100e-003	5.7100e-003	0.0217	7.0000e-005	6.6000e-003	7.0000e-005	6.6700e-003	1.7600e-003	6.0000e-005	1.8200e-003	0.0000	6.5278	6.5278	2.0000e-004	4.2000e-004	6.6576
Offroad	1.8000e-004	1.9100e-003	9.2000e-004	0.0000		8.0000e-005	8.0000e-005		7.0000e-005	7.0000e-005	0.0000	0.2535	0.2535	8.0000e-005	0.0000	0.2555
Waste						0.0000	0.0000		0.0000	0.0000	0.4730	0.0000	0.4730	0.0280	0.0000	1.1718
Water						0.0000	0.0000		0.0000	0.0000	0.1410	0.2225	0.3634	0.0145	3.5000e-004	0.8295
Total	**0.1481**	**0.0112**	**0.0260**	**9.0000e-005**	**6.6000e-003**	**4.2000e-004**	**7.0200e-003**	**1.7600e-003**	**4.0000e-004**	**2.1600e-003**	**0.6139**	**63.5974**	**64.2113**	**0.0513**	**1.8700e-003**	**66.0522**

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

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.1456	0.0000	2.9000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	5.7000e-004	5.7000e-004	0.0000	0.0000	6.0000e-004
Energy	4.0000e-004	3.6100e-003	3.0300e-003	2.0000e-005		2.7000e-004	2.7000e-004		2.7000e-004	2.7000e-004	0.0000	56.5931	56.5931	8.6000e-003	1.1000e-003	57.1372
Mobile	2.0100e-003	5.7100e-003	0.0217	7.0000e-005	6.6000e-003	7.0000e-005	6.6700e-003	1.7600e-003	6.0000e-005	1.8200e-003	0.0000	6.5278	6.5278	2.0000e-004	4.2000e-004	6.6576
Offroad	1.8000e-004	1.9100e-003	9.2000e-004	0.0000		8.0000e-005	8.0000e-005		7.0000e-005	7.0000e-005	0.0000	0.2535	0.2535	8.0000e-005	0.0000	0.2555
Waste						0.0000	0.0000		0.0000	0.0000	0.4730	0.0000	0.4730	0.0280	0.0000	1.1718
Water						0.0000	0.0000		0.0000	0.0000	0.1410	0.2225	0.3634	0.0145	3.5000e-004	0.8295
Total	**0.1481**	**0.0112**	**0.0260**	**9.0000e-005**	**6.6000e-003**	**4.2000e-004**	**7.0200e-003**	**1.7600e-003**	**4.0000e-004**	**2.1600e-003**	**0.6139**	**63.5974**	**64.2113**	**0.0513**	**1.8700e-003**	**66.0522**

	ROG	NOx	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	1/3/2022	2/1/2022	5	22	

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

2	Collector Substation Site Preparation	Site Preparation	1/3/2022	2/1/2022	5	22	
3	Grading	Grading	1/20/2022	2/18/2022	5	22	
4	Collector Substation Grading	Grading	1/20/2022	2/18/2022	5	22	
5	Collector Substation Installation	Building Construction	2/19/2022	6/22/2022	5	88	
6	PG&E Substation Site Preparation	Site Preparation	6/23/2022	7/22/2022	5	22	
7	PG&E Substation Grading	Grading	7/23/2022	8/23/2022	5	22	
8	PG&E Substation Construction	Building Construction	8/24/2022	1/10/2023	5	100	
9	Battery/Container installation	Building Construction	10/28/2022	5/31/2023	5	154	
10	Gen-tie foundation and tower erection	Building Construction	1/11/2023	1/17/2023	5	5	
11	Gen-tie stringing and pulling	Building Construction	1/18/2023	1/24/2023	5	5	
12	Decommissioning	Demolition	1/1/2052	7/2/2052	5	132	

Acres of Grading (Site Preparation Phase): 10

Acres of Grading (Grading Phase): 44

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Graders	2	8.00	187	0.41
Site Preparation	Rubber Tired Loaders	2	8.00	203	0.36
Site Preparation	Skid Steer Loaders	2	8.00	65	0.37
Site Preparation	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Collector Substation Site Preparation	Graders	0	8.00	187	0.41
Collector Substation Site Preparation	Rubber Tired Dozers	2	8.00	247	0.40
Collector Substation Site Preparation	Tractors/Loaders/Backhoes	2	8.00	97	0.37
PG&E Substation Site Preparation	Graders	2	8.00	187	0.41

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

PG&E Substation Site Preparation	Rubber Tired Loaders	2	8.00	203	0.36
PG&E Substation Site Preparation	Skid Steer Loaders	2	8.00	65	0.37
PG&E Substation Site Preparation	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Grading	Graders	2	8.00	187	0.41
Grading	Plate Compactors	2	8.00	8	0.43
Grading	Rollers	2	8.00	80	0.38
Grading	Rubber Tired Dozers	2	8.00	247	0.40
Grading	Skid Steer Loaders	2	8.00	65	0.37
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
PG&E Substation Construction	Cement and Mortar Mixers	2	8.00	9	0.56
PG&E Substation Construction	Cranes	2	8.00	231	0.29
PG&E Substation Construction	Forklifts	2	8.00	89	0.20
PG&E Substation Construction	Pumps	2	8.00	84	0.74
PG&E Substation Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
PG&E Substation Grading	Graders	2	8.00	187	0.41
PG&E Substation Grading	Rollers	2	8.00	80	0.38
PG&E Substation Grading	Rubber Tired Dozers	2	8.00	247	0.40
PG&E Substation Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Collector Substation Grading	Graders	0	6.00	187	0.41
Collector Substation Grading	Rollers	2	8.00	80	0.38
Collector Substation Grading	Rubber Tired Dozers	2	8.00	247	0.40
Collector Substation Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Collector Substation Installation	Aerial Lifts	6	8.00	63	0.31
Collector Substation Installation	Air Compressors	2	8.00	78	0.48
Collector Substation Installation	Bore/Drill Rigs	2	8.00	221	0.50
Collector Substation Installation	Cranes	2	8.00	231	0.29
Collector Substation Installation	Excavators	2	8.00	158	0.38
Collector Substation Installation	Forklifts	0	6.00	89	0.20
Collector Substation Installation	Generator Sets	2	8.00	84	0.74

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

Collector Substation Installation	Rollers	2	8.00	80	0.38
Collector Substation Installation	Rough Terrain Forklifts	2	8.00	100	0.40
Collector Substation Installation	Rubber Tired Dozers	2	8.00	247	0.40
Collector Substation Installation	Skid Steer Loaders	2	8.00	65	0.37
Collector Substation Installation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Collector Substation Installation	Trenchers	4	8.00	78	0.50
Gen-tie foundation and tower erection	Air Compressors	2	8.00	78	0.48
Gen-tie foundation and tower erection	Cranes	2	8.00	231	0.29
Gen-tie foundation and tower erection	Forklifts	2	8.00	89	0.20
Gen-tie foundation and tower erection	Generator Sets	2	8.00	84	0.74
Gen-tie foundation and tower erection	Pumps	2	8.00	84	0.74
Gen-tie foundation and tower erection	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Gen-tie foundation and tower erection	Welders	2	8.00	46	0.45
Battery/Container installation	Air Compressors	4	8.00	78	0.48
Battery/Container installation	Cranes	2	8.00	231	0.29
Battery/Container installation	Excavators	2	8.00	158	0.38
Battery/Container installation	Forklifts	0	6.00	89	0.20
Battery/Container installation	Generator Sets	4	8.00	84	0.74
Battery/Container installation	Plate Compactors	2	8.00	8	0.43
Battery/Container installation	Rollers	2	8.00	80	0.38
Battery/Container installation	Rough Terrain Forklifts	2	8.00	100	0.40
Battery/Container installation	Skid Steer Loaders	2	8.00	65	0.37
Battery/Container installation	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Gen-tie stringing and pulling	Cranes	0	4.00	231	0.29
Gen-tie stringing and pulling	Forklifts	2	8.00	89	0.20
Gen-tie stringing and pulling	Generator Sets	2	8.00	84	0.74
Gen-tie stringing and pulling	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Decommissioning	Concrete/Industrial Saws	2	8.00	81	0.73
Decommissioning	Cranes	2	8.00	231	0.29

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

Decommissioning	Rubber Tired Dozers	2	8.00	247	0.40
Decommissioning	Tractors/Loaders/Backhoes	2	8.00	97	0.37

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	8	40.00	2.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Collector Substation Site Preparation	4	40.00	2.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
PG&E Substation Site Preparation	8	40.00	2.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Grading	12	40.00	2.00	126.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
PG&E Substation Construction	10	40.00	20.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
PG&E Substation Grading	8	40.00	2.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Collector Substation Grading	6	40.00	2.00	170.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Collector Substation Installation	32	40.00	20.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Gen-tie foundation and tower erection	12	10.00	2.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Battery/Container installation	22	40.00	20.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Gen-tie stringing and pulling	6	8.00	2.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Decommissioning	8	40.00	2.00	2,640.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	tons/yr										MT/yr					
Fugitive Dust					5.3000e-003	0.0000	5.3000e-003	5.7000e-004	0.0000	5.7000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0207	0.2395	0.1513	4.0000e-004		8.6500e-003	8.6500e-003		7.9600e-003	7.9600e-003	0.0000	34.8981	34.8981	0.0113	0.0000	35.1803
Total	**0.0207**	**0.2395**	**0.1513**	**4.0000e-004**	**5.3000e-003**	**8.6500e-003**	**0.0140**	**5.7000e-004**	**7.9600e-003**	**8.5300e-003**	**0.0000**	**34.8981**	**34.8981**	**0.0113**	**0.0000**	**35.1803**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	4.0000e-005	1.1200e-003	3.3000e-004	0.0000	2.1900e-003	1.0000e-005	2.2000e-003	2.4000e-004	1.0000e-005	2.6000e-004	0.0000	0.4028	0.4028	0.0000	6.0000e-005	0.4209
Worker	1.9700e-003	1.5100e-003	0.0173	5.0000e-005	5.4700e-003	3.0000e-005	5.5000e-003	1.4500e-003	3.0000e-005	1.4800e-003	0.0000	4.4767	4.4767	1.2000e-004	1.3000e-004	4.5173
Total	**2.0100e-003**	**2.6300e-003**	**0.0176**	**5.0000e-005**	**7.6600e-003**	**4.0000e-005**	**7.7000e-003**	**1.6900e-003**	**4.0000e-005**	**1.7400e-003**	**0.0000**	**4.8796**	**4.8796**	**1.2000e-004**	**1.9000e-004**	**4.9382**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	tons/yr										MT/yr					
Fugitive Dust					2.3900e-003	0.0000	2.3900e-003	2.6000e-004	0.0000	2.6000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.3000e-003	0.1303	0.2371	4.0000e-004		1.6200e-003	1.6200e-003		1.6200e-003	1.6200e-003	0.0000	34.8981	34.8981	0.0113	0.0000	35.1803
Total	**7.3000e-003**	**0.1303**	**0.2371**	**4.0000e-004**	**2.3900e-003**	**1.6200e-003**	**4.0100e-003**	**2.6000e-004**	**1.6200e-003**	**1.8800e-003**	**0.0000**	**34.8981**	**34.8981**	**0.0113**	**0.0000**	**35.1803**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	4.0000e-005	1.1200e-003	3.3000e-004	0.0000	1.3900e-003	1.0000e-005	1.4000e-003	1.6000e-004	1.0000e-005	1.8000e-004	0.0000	0.4028	0.4028	0.0000	6.0000e-005	0.4209
Worker	1.9700e-003	1.5100e-003	0.0173	5.0000e-005	5.4700e-003	3.0000e-005	5.5000e-003	1.4500e-003	3.0000e-005	1.4800e-003	0.0000	4.4767	4.4767	1.2000e-004	1.3000e-004	4.5173
Total	**2.0100e-003**	**2.6300e-003**	**0.0176**	**5.0000e-005**	**6.8600e-003**	**4.0000e-005**	**6.9000e-003**	**1.6100e-003**	**4.0000e-005**	**1.6600e-003**	**0.0000**	**4.8796**	**4.8796**	**1.2000e-004**	**1.9000e-004**	**4.9382**

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

3.3 Collector Substation 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					0.1442	0.0000	0.1442	0.0741	0.0000	0.0741	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0220	0.2303	0.1280	2.6000e-004		0.0112	0.0112		0.0103	0.0103	0.0000	22.5182	22.5182	7.2800e-003	0.0000	22.7002
Total	**0.0220**	**0.2303**	**0.1280**	**2.6000e-004**	**0.1442**	**0.0112**	**0.1553**	**0.0741**	**0.0103**	**0.0844**	**0.0000**	**22.5182**	**22.5182**	**7.2800e-003**	**0.0000**	**22.7002**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	4.0000e-005	1.1200e-003	3.3000e-004	0.0000	2.1900e-003	1.0000e-005	2.2000e-003	2.4000e-004	1.0000e-005	2.6000e-004	0.0000	0.4028	0.4028	0.0000	6.0000e-005	0.4209
Worker	1.9700e-003	1.5100e-003	0.0173	5.0000e-005	5.4700e-003	3.0000e-005	5.5000e-003	1.4500e-003	3.0000e-005	1.4800e-003	0.0000	4.4767	4.4767	1.2000e-004	1.3000e-004	4.5173
Total	**2.0100e-003**	**2.6300e-003**	**0.0176**	**5.0000e-005**	**7.6600e-003**	**4.0000e-005**	**7.7000e-003**	**1.6900e-003**	**4.0000e-005**	**1.7400e-003**	**0.0000**	**4.8796**	**4.8796**	**1.2000e-004**	**1.9000e-004**	**4.9382**

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

3.3 Collector Substation 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	tons/yr										MT/yr					
Fugitive Dust					0.0649	0.0000	0.0649	0.0333	0.0000	0.0333	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.6000e-003	0.0793	0.1512	2.6000e-004		4.2000e-004	4.2000e-004		4.2000e-004	4.2000e-004	0.0000	22.5181	22.5181	7.2800e-003	0.0000	22.7002
Total	**4.6000e-003**	**0.0793**	**0.1512**	**2.6000e-004**	**0.0649**	**4.2000e-004**	**0.0653**	**0.0333**	**4.2000e-004**	**0.0338**	**0.0000**	**22.5181**	**22.5181**	**7.2800e-003**	**0.0000**	**22.7002**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	4.0000e-005	1.1200e-003	3.3000e-004	0.0000	1.3900e-003	1.0000e-005	1.4000e-003	1.6000e-004	1.0000e-005	1.8000e-004	0.0000	0.4028	0.4028	0.0000	6.0000e-005	0.4209
Worker	1.9700e-003	1.5100e-003	0.0173	5.0000e-005	5.4700e-003	3.0000e-005	5.5000e-003	1.4500e-003	3.0000e-005	1.4800e-003	0.0000	4.4767	4.4767	1.2000e-004	1.3000e-004	4.5173
Total	**2.0100e-003**	**2.6300e-003**	**0.0176**	**5.0000e-005**	**6.8600e-003**	**4.0000e-005**	**6.9000e-003**	**1.6100e-003**	**4.0000e-005**	**1.6600e-003**	**0.0000**	**4.8796**	**4.8796**	**1.2000e-004**	**1.9000e-004**	**4.9382**

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

3.4 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					0.1559	0.0000	0.1559	0.0754	0.0000	0.0754	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0372	0.4099	0.2420	5.2000e-004		0.0180	0.0180		0.0166	0.0166	0.0000	45.0758	45.0758	0.0144	0.0000	45.4365
Total	**0.0372**	**0.4099**	**0.2420**	**5.2000e-004**	**0.1559**	**0.0180**	**0.1739**	**0.0754**	**0.0166**	**0.0919**	**0.0000**	**45.0758**	**45.0758**	**0.0144**	**0.0000**	**45.4365**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2.4000e-004	9.5900e-003	1.8400e-003	4.0000e-005	1.0800e-003	1.0000e-004	1.1800e-003	3.0000e-004	9.0000e-005	3.9000e-004	0.0000	3.6977	3.6977	2.0000e-005	5.8000e-004	3.8714
Vendor	4.0000e-005	1.1200e-003	3.3000e-004	0.0000	2.1900e-003	1.0000e-005	2.2000e-003	2.4000e-004	1.0000e-005	2.6000e-004	0.0000	0.4028	0.4028	0.0000	6.0000e-005	0.4209
Worker	1.9700e-003	1.5100e-003	0.0173	5.0000e-005	5.4700e-003	3.0000e-005	5.5000e-003	1.4500e-003	3.0000e-005	1.4800e-003	0.0000	4.4767	4.4767	1.2000e-004	1.3000e-004	4.5173
Total	**2.2500e-003**	**0.0122**	**0.0194**	**9.0000e-005**	**8.7400e-003**	**1.4000e-004**	**8.8800e-003**	**1.9900e-003**	**1.3000e-004**	**2.1300e-003**	**0.0000**	**8.5773**	**8.5773**	**1.4000e-004**	**7.7000e-004**	**8.8096**

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

3.4 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	tons/yr										MT/yr					
Fugitive Dust					0.0702	0.0000	0.0702	0.0339	0.0000	0.0339	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0103	0.1740	0.3114	5.2000e-004		2.0100e-003	2.0100e-003		2.0100e-003	2.0100e-003	0.0000	45.0758	45.0758	0.0144	0.0000	45.4365
Total	**0.0103**	**0.1740**	**0.3114**	**5.2000e-004**	**0.0702**	**2.0100e-003**	**0.0722**	**0.0339**	**2.0100e-003**	**0.0359**	**0.0000**	**45.0758**	**45.0758**	**0.0144**	**0.0000**	**45.4365**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2.4000e-004	9.5900e-003	1.8400e-003	4.0000e-005	1.0800e-003	1.0000e-004	1.1800e-003	3.0000e-004	9.0000e-005	3.9000e-004	0.0000	3.6977	3.6977	2.0000e-005	5.8000e-004	3.8714
Vendor	4.0000e-005	1.1200e-003	3.3000e-004	0.0000	1.3900e-003	1.0000e-005	1.4000e-003	1.6000e-004	1.0000e-005	1.8000e-004	0.0000	0.4028	0.4028	0.0000	6.0000e-005	0.4209
Worker	1.9700e-003	1.5100e-003	0.0173	5.0000e-005	5.4700e-003	3.0000e-005	5.5000e-003	1.4500e-003	3.0000e-005	1.4800e-003	0.0000	4.4767	4.4767	1.2000e-004	1.3000e-004	4.5173
Total	**2.2500e-003**	**0.0122**	**0.0194**	**9.0000e-005**	**7.9400e-003**	**1.4000e-004**	**8.0800e-003**	**1.9100e-003**	**1.3000e-004**	**2.0500e-003**	**0.0000**	**8.5773**	**8.5773**	**1.4000e-004**	**7.7000e-004**	**8.8096**

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

3.5 Collector Substation 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					0.1443	0.0000	0.1443	0.0741	0.0000	0.0741	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0257	0.2683	0.1690	3.1000e-004		0.0134	0.0134		0.0123	0.0123	0.0000	27.5896	27.5896	8.9200e-003	0.0000	27.8127
Total	**0.0257**	**0.2683**	**0.1690**	**3.1000e-004**	**0.1443**	**0.0134**	**0.1576**	**0.0741**	**0.0123**	**0.0864**	**0.0000**	**27.5896**	**27.5896**	**8.9200e-003**	**0.0000**	**27.8127**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	3.2000e-004	0.0129	2.4800e-003	5.0000e-005	1.4600e-003	1.3000e-004	1.5900e-003	4.0000e-004	1.3000e-004	5.3000e-004	0.0000	4.9889	4.9889	3.0000e-005	7.8000e-004	5.2234
Vendor	4.0000e-005	1.1200e-003	3.3000e-004	0.0000	2.1900e-003	1.0000e-005	2.2000e-003	2.4000e-004	1.0000e-005	2.6000e-004	0.0000	0.4028	0.4028	0.0000	6.0000e-005	0.4209
Worker	1.9700e-003	1.5100e-003	0.0173	5.0000e-005	5.4700e-003	3.0000e-005	5.5000e-003	1.4500e-003	3.0000e-005	1.4800e-003	0.0000	4.4767	4.4767	1.2000e-004	1.3000e-004	4.5173
Total	**2.3300e-003**	**0.0156**	**0.0201**	**1.0000e-004**	**9.1200e-003**	**1.7000e-004**	**9.2900e-003**	**2.0900e-003**	**1.7000e-004**	**2.2700e-003**	**0.0000**	**9.8685**	**9.8685**	**1.5000e-004**	**9.7000e-004**	**10.1616**

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

3.5 Collector Substation 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	tons/yr										MT/yr					
Fugitive Dust					0.0649	0.0000	0.0649	0.0333	0.0000	0.0333	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.9000e-003	0.1045	0.1948	3.1000e-004		5.1000e-004	5.1000e-004		5.1000e-004	5.1000e-004	0.0000	27.5896	27.5896	8.9200e-003	0.0000	27.8126
Total	**5.9000e-003**	**0.1045**	**0.1948**	**3.1000e-004**	**0.0649**	**5.1000e-004**	**0.0654**	**0.0333**	**5.1000e-004**	**0.0339**	**0.0000**	**27.5896**	**27.5896**	**8.9200e-003**	**0.0000**	**27.8126**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	3.2000e-004	0.0129	2.4800e-003	5.0000e-005	1.4600e-003	1.3000e-004	1.5900e-003	4.0000e-004	1.3000e-004	5.3000e-004	0.0000	4.9889	4.9889	3.0000e-005	7.8000e-004	5.2234
Vendor	4.0000e-005	1.1200e-003	3.3000e-004	0.0000	1.3900e-003	1.0000e-005	1.4000e-003	1.6000e-004	1.0000e-005	1.8000e-004	0.0000	0.4028	0.4028	0.0000	6.0000e-005	0.4209
Worker	1.9700e-003	1.5100e-003	0.0173	5.0000e-005	5.4700e-003	3.0000e-005	5.5000e-003	1.4500e-003	3.0000e-005	1.4800e-003	0.0000	4.4767	4.4767	1.2000e-004	1.3000e-004	4.5173
Total	**2.3300e-003**	**0.0156**	**0.0201**	**1.0000e-004**	**8.3200e-003**	**1.7000e-004**	**8.4900e-003**	**2.0100e-003**	**1.7000e-004**	**2.1900e-003**	**0.0000**	**9.8685**	**9.8685**	**1.5000e-004**	**9.7000e-004**	**10.1616**

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

3.6 Collector Substation Installation - 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	0.3302	3.3223	3.1114	5.7700e-003		0.1656	0.1656		0.1541	0.1541	0.0000	505.3563	505.3563	0.1420	0.0000	508.9058
Total	**0.3302**	**3.3223**	**3.1114**	**5.7700e-003**		**0.1656**	**0.1656**		**0.1541**	**0.1541**	**0.0000**	**505.3563**	**505.3563**	**0.1420**	**0.0000**	**508.9058**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.7800e-003	0.0447	0.0134	1.7000e-004	0.0877	4.9000e-004	0.0882	9.7400e-003	4.7000e-004	0.0102	0.0000	16.1134	16.1134	1.1000e-004	2.4200e-003	16.8362
Worker	7.8700e-003	6.0300e-003	0.0691	2.0000e-004	0.0219	1.2000e-004	0.0220	5.8100e-003	1.1000e-004	5.9200e-003	0.0000	17.9070	17.9070	4.8000e-004	5.0000e-004	18.0690
Total	**9.6500e-003**	**0.0508**	**0.0824**	**3.7000e-004**	**0.1096**	**6.1000e-004**	**0.1102**	**0.0156**	**5.8000e-004**	**0.0161**	**0.0000**	**34.0203**	**34.0203**	**5.9000e-004**	**2.9200e-003**	**34.9052**

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

3.6 Collector Substation Installation - 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	tons/yr										MT/yr					
Off-Road	0.1145	2.0440	3.4567	5.7700e-003		0.0201	0.0201		0.0194	0.0194	0.0000	505.3557	505.3557	0.1420	0.0000	508.9052
Total	**0.1145**	**2.0440**	**3.4567**	**5.7700e-003**		**0.0201**	**0.0201**		**0.0194**	**0.0194**	**0.0000**	**505.3557**	**505.3557**	**0.1420**	**0.0000**	**508.9052**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.7800e-003	0.0447	0.0134	1.7000e-004	0.0557	4.9000e-004	0.0562	6.5400e-003	4.7000e-004	7.0100e-003	0.0000	16.1134	16.1134	1.1000e-004	2.4200e-003	16.8362
Worker	7.8700e-003	6.0300e-003	0.0691	2.0000e-004	0.0219	1.2000e-004	0.0220	5.8100e-003	1.1000e-004	5.9200e-003	0.0000	17.9070	17.9070	4.8000e-004	5.0000e-004	18.0690
Total	**9.6500e-003**	**0.0508**	**0.0824**	**3.7000e-004**	**0.0776**	**6.1000e-004**	**0.0782**	**0.0124**	**5.8000e-004**	**0.0129**	**0.0000**	**34.0203**	**34.0203**	**5.9000e-004**	**2.9200e-003**	**34.9052**

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

3.7 PG&E Substation 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					0.0117	0.0000	0.0117	1.2600e-003	0.0000	1.2600e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0207	0.2395	0.1513	4.0000e-004		8.6500e-003	8.6500e-003		7.9600e-003	7.9600e-003	0.0000	34.8981	34.8981	0.0113	0.0000	35.1803
Total	**0.0207**	**0.2395**	**0.1513**	**4.0000e-004**	**0.0117**	**8.6500e-003**	**0.0203**	**1.2600e-003**	**7.9600e-003**	**9.2200e-003**	**0.0000**	**34.8981**	**34.8981**	**0.0113**	**0.0000**	**35.1803**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	4.0000e-005	1.1200e-003	3.3000e-004	0.0000	2.1900e-003	1.0000e-005	2.2000e-003	2.4000e-004	1.0000e-005	2.6000e-004	0.0000	0.4028	0.4028	0.0000	6.0000e-005	0.4209
Worker	1.9700e-003	1.5100e-003	0.0173	5.0000e-005	5.4700e-003	3.0000e-005	5.5000e-003	1.4500e-003	3.0000e-005	1.4800e-003	0.0000	4.4767	4.4767	1.2000e-004	1.3000e-004	4.5173
Total	**2.0100e-003**	**2.6300e-003**	**0.0176**	**5.0000e-005**	**7.6600e-003**	**4.0000e-005**	**7.7000e-003**	**1.6900e-003**	**4.0000e-005**	**1.7400e-003**	**0.0000**	**4.8796**	**4.8796**	**1.2000e-004**	**1.9000e-004**	**4.9382**

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

3.7 PG&E Substation 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	tons/yr										MT/yr					
Fugitive Dust					5.2500e-003	0.0000	5.2500e-003	5.7000e-004	0.0000	5.7000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.3000e-003	0.1303	0.2371	4.0000e-004		1.6200e-003	1.6200e-003		1.6200e-003	1.6200e-003	0.0000	34.8981	34.8981	0.0113	0.0000	35.1803
Total	**7.3000e-003**	**0.1303**	**0.2371**	**4.0000e-004**	**5.2500e-003**	**1.6200e-003**	**6.8700e-003**	**5.7000e-004**	**1.6200e-003**	**2.1900e-003**	**0.0000**	**34.8981**	**34.8981**	**0.0113**	**0.0000**	**35.1803**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	4.0000e-005	1.1200e-003	3.3000e-004	0.0000	1.3900e-003	1.0000e-005	1.4000e-003	1.6000e-004	1.0000e-005	1.8000e-004	0.0000	0.4028	0.4028	0.0000	6.0000e-005	0.4209
Worker	1.9700e-003	1.5100e-003	0.0173	5.0000e-005	5.4700e-003	3.0000e-005	5.5000e-003	1.4500e-003	3.0000e-005	1.4800e-003	0.0000	4.4767	4.4767	1.2000e-004	1.3000e-004	4.5173
Total	**2.0100e-003**	**2.6300e-003**	**0.0176**	**5.0000e-005**	**6.8600e-003**	**4.0000e-005**	**6.9000e-003**	**1.6100e-003**	**4.0000e-005**	**1.6600e-003**	**0.0000**	**4.8796**	**4.8796**	**1.2000e-004**	**1.9000e-004**	**4.9382**

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

3.8 PG&E Substation 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					0.1558	0.0000	0.1558	0.0753	0.0000	0.0753	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0348	0.3840	0.2068	4.6000e-004		0.0170	0.0170		0.0157	0.0157	0.0000	40.3883	40.3883	0.0131	0.0000	40.7148
Total	**0.0348**	**0.3840**	**0.2068**	**4.6000e-004**	**0.1558**	**0.0170**	**0.1729**	**0.0753**	**0.0157**	**0.0910**	**0.0000**	**40.3883**	**40.3883**	**0.0131**	**0.0000**	**40.7148**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	4.0000e-005	1.1200e-003	3.3000e-004	0.0000	2.1900e-003	1.0000e-005	2.2000e-003	2.4000e-004	1.0000e-005	2.6000e-004	0.0000	0.4028	0.4028	0.0000	6.0000e-005	0.4209
Worker	1.9700e-003	1.5100e-003	0.0173	5.0000e-005	5.4700e-003	3.0000e-005	5.5000e-003	1.4500e-003	3.0000e-005	1.4800e-003	0.0000	4.4767	4.4767	1.2000e-004	1.3000e-004	4.5173
Total	**2.0100e-003**	**2.6300e-003**	**0.0176**	**5.0000e-005**	**7.6600e-003**	**4.0000e-005**	**7.7000e-003**	**1.6900e-003**	**4.0000e-005**	**1.7400e-003**	**0.0000**	**4.8796**	**4.8796**	**1.2000e-004**	**1.9000e-004**	**4.9382**

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

3.8 PG&E Substation 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	tons/yr										MT/yr					
Fugitive Dust					0.0701	0.0000	0.0701	0.0339	0.0000	0.0339	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.2800e-003	0.1429	0.2722	4.6000e-004		7.5000e-004	7.5000e-004		7.5000e-004	7.5000e-004	0.0000	40.3882	40.3882	0.0131	0.0000	40.7148
Total	**8.2800e-003**	**0.1429**	**0.2722**	**4.6000e-004**	**0.0701**	**7.5000e-004**	**0.0709**	**0.0339**	**7.5000e-004**	**0.0347**	**0.0000**	**40.3882**	**40.3882**	**0.0131**	**0.0000**	**40.7148**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	4.0000e-005	1.1200e-003	3.3000e-004	0.0000	1.3900e-003	1.0000e-005	1.4000e-003	1.6000e-004	1.0000e-005	1.8000e-004	0.0000	0.4028	0.4028	0.0000	6.0000e-005	0.4209
Worker	1.9700e-003	1.5100e-003	0.0173	5.0000e-005	5.4700e-003	3.0000e-005	5.5000e-003	1.4500e-003	3.0000e-005	1.4800e-003	0.0000	4.4767	4.4767	1.2000e-004	1.3000e-004	4.5173
Total	**2.0100e-003**	**2.6300e-003**	**0.0176**	**5.0000e-005**	**6.8600e-003**	**4.0000e-005**	**6.9000e-003**	**1.6100e-003**	**4.0000e-005**	**1.6600e-003**	**0.0000**	**4.8796**	**4.8796**	**1.2000e-004**	**1.9000e-004**	**4.9382**

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

3.9 PG&E Substation 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	0.0988	0.9534	0.8672	1.6500e-003		0.0469	0.0469		0.0444	0.0444	0.0000	141.8778	141.8778	0.0306	0.0000	142.6436
Total	**0.0988**	**0.9534**	**0.8672**	**1.6500e-003**		**0.0469**	**0.0469**		**0.0444**	**0.0444**	**0.0000**	**141.8778**	**141.8778**	**0.0306**	**0.0000**	**142.6436**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.8800e-003	0.0473	0.0141	1.8000e-004	0.0927	5.1000e-004	0.0932	0.0103	4.9000e-004	0.0108	0.0000	17.0289	17.0289	1.1000e-004	2.5500e-003	17.7928
Worker	8.3200e-003	6.3700e-003	0.0730	2.1000e-004	0.0231	1.2000e-004	0.0233	6.1400e-003	1.1000e-004	6.2600e-003	0.0000	18.9244	18.9244	5.1000e-004	5.3000e-004	19.0957
Total	**0.0102**	**0.0536**	**0.0871**	**3.9000e-004**	**0.1158**	**6.3000e-004**	**0.1164**	**0.0164**	**6.0000e-004**	**0.0171**	**0.0000**	**35.9533**	**35.9533**	**6.2000e-004**	**3.0800e-003**	**36.8885**

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

3.9 PG&E Substation 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	tons/yr										MT/yr					
Off-Road	0.0425	0.6183	1.0167	1.6500e-003		0.0100	0.0100		9.4800e-003	9.4800e-003	0.0000	141.8777	141.8777	0.0306	0.0000	142.6435
Total	**0.0425**	**0.6183**	**1.0167**	**1.6500e-003**		**0.0100**	**0.0100**		**9.4800e-003**	**9.4800e-003**	**0.0000**	**141.8777**	**141.8777**	**0.0306**	**0.0000**	**142.6435**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.8800e-003	0.0473	0.0141	1.8000e-004	0.0589	5.1000e-004	0.0594	6.9200e-003	4.9000e-004	7.4100e-003	0.0000	17.0289	17.0289	1.1000e-004	2.5500e-003	17.7928
Worker	8.3200e-003	6.3700e-003	0.0730	2.1000e-004	0.0231	1.2000e-004	0.0233	6.1400e-003	1.1000e-004	6.2600e-003	0.0000	18.9244	18.9244	5.1000e-004	5.3000e-004	19.0957
Total	**0.0102**	**0.0536**	**0.0871**	**3.9000e-004**	**0.0820**	**6.3000e-004**	**0.0826**	**0.0131**	**6.0000e-004**	**0.0137**	**0.0000**	**35.9533**	**35.9533**	**6.2000e-004**	**3.0800e-003**	**36.8885**

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

3.9 PG&E Substation 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	6.9400e-003	0.0660	0.0647	1.2000e-004		3.1100e-003	3.1100e-003		2.9400e-003	2.9400e-003	0.0000	10.6811	10.6811	2.2900e-003	0.0000	10.7382
Total	**6.9400e-003**	**0.0660**	**0.0647**	**1.2000e-004**		**3.1100e-003**	**3.1100e-003**		**2.9400e-003**	**2.9400e-003**	**0.0000**	**10.6811**	**10.6811**	**2.2900e-003**	**0.0000**	**10.7382**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	7.0000e-005	2.8800e-003	9.2000e-004	1.0000e-005	6.9700e-003	2.0000e-005	6.9900e-003	7.7000e-004	2.0000e-005	7.9000e-004	0.0000	1.2340	1.2340	1.0000e-005	1.8000e-004	1.2892
Worker	5.7000e-004	4.2000e-004	4.9900e-003	2.0000e-005	1.7400e-003	1.0000e-005	1.7500e-003	4.6000e-004	1.0000e-005	4.7000e-004	0.0000	1.3787	1.3787	3.0000e-005	4.0000e-005	1.3904
Total	**6.4000e-004**	**3.3000e-003**	**5.9100e-003**	**3.0000e-005**	**8.7100e-003**	**3.0000e-005**	**8.7400e-003**	**1.2300e-003**	**3.0000e-005**	**1.2600e-003**	**0.0000**	**2.6127**	**2.6127**	**4.0000e-005**	**2.2000e-004**	**2.6796**

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

3.9 PG&E Substation 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	tons/yr										MT/yr					
Off-Road	3.1200e-003	0.0459	0.0765	1.2000e-004		6.8000e-004	6.8000e-004		6.5000e-004	6.5000e-004	0.0000	10.6810	10.6810	2.2900e-003	0.0000	10.7382
Total	**3.1200e-003**	**0.0459**	**0.0765**	**1.2000e-004**		**6.8000e-004**	**6.8000e-004**		**6.5000e-004**	**6.5000e-004**	**0.0000**	**10.6810**	**10.6810**	**2.2900e-003**	**0.0000**	**10.7382**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	7.0000e-005	2.8800e-003	9.2000e-004	1.0000e-005	4.4300e-003	2.0000e-005	4.4500e-003	5.2000e-004	2.0000e-005	5.4000e-004	0.0000	1.2340	1.2340	1.0000e-005	1.8000e-004	1.2892
Worker	5.7000e-004	4.2000e-004	4.9900e-003	2.0000e-005	1.7400e-003	1.0000e-005	1.7500e-003	4.6000e-004	1.0000e-005	4.7000e-004	0.0000	1.3787	1.3787	3.0000e-005	4.0000e-005	1.3904
Total	**6.4000e-004**	**3.3000e-003**	**5.9100e-003**	**3.0000e-005**	**6.1700e-003**	**3.0000e-005**	**6.2000e-003**	**9.8000e-004**	**3.0000e-005**	**1.0100e-003**	**0.0000**	**2.6127**	**2.6127**	**4.0000e-005**	**2.2000e-004**	**2.6796**

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

3.10 Battery/Container installation - 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	0.1073	0.9952	1.1647	2.0100e-003		0.0486	0.0486		0.0467	0.0467	0.0000	174.4089	174.4089	0.0337	0.0000	175.2502
Total	**0.1073**	**0.9952**	**1.1647**	**2.0100e-003**		**0.0486**	**0.0486**		**0.0467**	**0.0467**	**0.0000**	**174.4089**	**174.4089**	**0.0337**	**0.0000**	**175.2502**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.3000e-004	0.0234	6.9800e-003	9.0000e-005	0.0458	2.5000e-004	0.0461	5.0900e-003	2.4000e-004	5.3400e-003	0.0000	8.4229	8.4229	6.0000e-005	1.2600e-003	8.8008
Worker	4.1100e-003	3.1500e-003	0.0361	1.0000e-004	0.0114	6.0000e-005	0.0115	3.0400e-003	6.0000e-005	3.1000e-003	0.0000	9.3605	9.3605	2.5000e-004	2.6000e-004	9.4452
Total	**5.0400e-003**	**0.0265**	**0.0431**	**1.9000e-004**	**0.0573**	**3.1000e-004**	**0.0576**	**8.1300e-003**	**3.0000e-004**	**8.4400e-003**	**0.0000**	**17.7834**	**17.7834**	**3.1000e-004**	**1.5200e-003**	**18.2459**

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

3.10 Battery/Container installation - 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	tons/yr										MT/yr					
Off-Road	0.0387	0.7703	1.3204	2.0100e-003		5.4400e-003	5.4400e-003		5.4400e-003	5.4400e-003	0.0000	174.4087	174.4087	0.0337	0.0000	175.2500
Total	**0.0387**	**0.7703**	**1.3204**	**2.0100e-003**		**5.4400e-003**	**5.4400e-003**		**5.4400e-003**	**5.4400e-003**	**0.0000**	**174.4087**	**174.4087**	**0.0337**	**0.0000**	**175.2500**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.3000e-004	0.0234	6.9800e-003	9.0000e-005	0.0291	2.5000e-004	0.0294	3.4200e-003	2.4000e-004	3.6600e-003	0.0000	8.4229	8.4229	6.0000e-005	1.2600e-003	8.8008
Worker	4.1100e-003	3.1500e-003	0.0361	1.0000e-004	0.0114	6.0000e-005	0.0115	3.0400e-003	6.0000e-005	3.1000e-003	0.0000	9.3605	9.3605	2.5000e-004	2.6000e-004	9.4452
Total	**5.0400e-003**	**0.0265**	**0.0431**	**1.9000e-004**	**0.0406**	**3.1000e-004**	**0.0409**	**6.4600e-003**	**3.0000e-004**	**6.7600e-003**	**0.0000**	**17.7834**	**17.7834**	**3.1000e-004**	**1.5200e-003**	**18.2459**

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

3.10 Battery/Container installation - 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	0.2353	2.1526	2.7245	4.7300e-003		0.1003	0.1003		0.0962	0.0962	0.0000	409.5371	409.5371	0.0782	0.0000	411.4924
Total	**0.2353**	**2.1526**	**2.7245**	**4.7300e-003**		**0.1003**	**0.1003**		**0.0962**	**0.0962**	**0.0000**	**409.5371**	**409.5371**	**0.0782**	**0.0000**	**411.4924**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.1400e-003	0.0444	0.0142	2.0000e-004	0.1076	2.8000e-004	0.1079	0.0120	2.7000e-004	0.0122	0.0000	19.0386	19.0386	8.0000e-005	2.8500e-003	19.8900
Worker	8.8600e-003	6.4300e-003	0.0769	2.3000e-004	0.0269	1.4000e-004	0.0270	7.1400e-003	1.3000e-004	7.2600e-003	0.0000	21.2712	21.2712	5.3000e-004	5.6000e-004	21.4525
Total	**0.0100**	**0.0509**	**0.0912**	**4.3000e-004**	**0.1344**	**4.2000e-004**	**0.1349**	**0.0191**	**4.0000e-004**	**0.0195**	**0.0000**	**40.3098**	**40.3098**	**6.1000e-004**	**3.4100e-003**	**41.3424**

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

3.10 Battery/Container installation - 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	tons/yr										MT/yr					
Off-Road	0.0909	1.8084	3.1002	4.7300e-003		0.0128	0.0128		0.0128	0.0128	0.0000	409.5366	409.5366	0.0782	0.0000	411.4919
Total	**0.0909**	**1.8084**	**3.1002**	**4.7300e-003**		**0.0128**	**0.0128**		**0.0128**	**0.0128**	**0.0000**	**409.5366**	**409.5366**	**0.0782**	**0.0000**	**411.4919**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.1400e-003	0.0444	0.0142	2.0000e-004	0.0684	2.8000e-004	0.0687	8.0300e-003	2.7000e-004	8.3000e-003	0.0000	19.0386	19.0386	8.0000e-005	2.8500e-003	19.8900
Worker	8.8600e-003	6.4300e-003	0.0769	2.3000e-004	0.0269	1.4000e-004	0.0270	7.1400e-003	1.3000e-004	7.2600e-003	0.0000	21.2712	21.2712	5.3000e-004	5.6000e-004	21.4525
Total	**0.0100**	**0.0509**	**0.0912**	**4.3000e-004**	**0.0952**	**4.2000e-004**	**0.0956**	**0.0152**	**4.0000e-004**	**0.0156**	**0.0000**	**40.3098**	**40.3098**	**6.1000e-004**	**3.4100e-003**	**41.3424**

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

3.11 Gen-tie foundation and tower erection - 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	7.9900e-003	0.0670	0.0723	1.3000e-004		3.1600e-003	3.1600e-003		3.0700e-003	3.0700e-003	0.0000	11.5016	11.5016	1.5000e-003	0.0000	11.5389
Total	**7.9900e-003**	**0.0670**	**0.0723**	**1.3000e-004**		**3.1600e-003**	**3.1600e-003**		**3.0700e-003**	**3.0700e-003**	**0.0000**	**11.5016**	**11.5016**	**1.5000e-003**	**0.0000**	**11.5389**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.0000e-005	2.1000e-004	7.0000e-005	0.0000	5.0000e-004	0.0000	5.0000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.0881	0.0881	0.0000	1.0000e-005	0.0921
Worker	1.0000e-004	7.0000e-005	8.9000e-004	0.0000	3.1000e-004	0.0000	3.1000e-004	8.0000e-005	0.0000	8.0000e-005	0.0000	0.2462	0.2462	1.0000e-005	1.0000e-005	0.2483
Total	**1.1000e-004**	**2.8000e-004**	**9.6000e-004**	**0.0000**	**8.1000e-004**	**0.0000**	**8.1000e-004**	**1.4000e-004**	**0.0000**	**1.4000e-004**	**0.0000**	**0.3343**	**0.3343**	**1.0000e-005**	**2.0000e-005**	**0.3404**

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

3.11 Gen-tie foundation and tower erection - 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	tons/yr										MT/yr					
Off-Road	3.8300e-003	0.0501	0.0823	1.3000e-004		7.3000e-004	7.3000e-004		7.1000e-004	7.1000e-004	0.0000	11.5016	11.5016	1.5000e-003	0.0000	11.5389
Total	**3.8300e-003**	**0.0501**	**0.0823**	**1.3000e-004**		**7.3000e-004**	**7.3000e-004**		**7.1000e-004**	**7.1000e-004**	**0.0000**	**11.5016**	**11.5016**	**1.5000e-003**	**0.0000**	**11.5389**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.0000e-005	2.1000e-004	7.0000e-005	0.0000	3.2000e-004	0.0000	3.2000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.0881	0.0881	0.0000	1.0000e-005	0.0921
Worker	1.0000e-004	7.0000e-005	8.9000e-004	0.0000	3.1000e-004	0.0000	3.1000e-004	8.0000e-005	0.0000	8.0000e-005	0.0000	0.2462	0.2462	1.0000e-005	1.0000e-005	0.2483
Total	**1.1000e-004**	**2.8000e-004**	**9.6000e-004**	**0.0000**	**6.3000e-004**	**0.0000**	**6.3000e-004**	**1.2000e-004**	**0.0000**	**1.2000e-004**	**0.0000**	**0.3343**	**0.3343**	**1.0000e-005**	**2.0000e-005**	**0.3404**

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

3.12 Gen-tie stringing and pulling - 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	2.8000e-003	0.0261	0.0352	6.0000e-005		1.3200e-003	1.3200e-003		1.2600e-003	1.2600e-003	0.0000	4.8654	4.8654	7.8000e-004	0.0000	4.8850
Total	**2.8000e-003**	**0.0261**	**0.0352**	**6.0000e-005**		**1.3200e-003**	**1.3200e-003**		**1.2600e-003**	**1.2600e-003**	**0.0000**	**4.8654**	**4.8654**	**7.8000e-004**	**0.0000**	**4.8850**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.0000e-005	2.1000e-004	7.0000e-005	0.0000	5.0000e-004	0.0000	5.0000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.0881	0.0881	0.0000	1.0000e-005	0.0921
Worker	8.0000e-005	6.0000e-005	7.1000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1970	0.1970	0.0000	1.0000e-005	0.1986
Total	**9.0000e-005**	**2.7000e-004**	**7.8000e-004**	**0.0000**	**7.5000e-004**	**0.0000**	**7.5000e-004**	**1.3000e-004**	**0.0000**	**1.3000e-004**	**0.0000**	**0.2851**	**0.2851**	**0.0000**	**2.0000e-005**	**0.2907**

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

3.12 Gen-tie stringing and pulling - 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	tons/yr										MT/yr					
Off-Road	1.4600e-003	0.0233	0.0377	6.0000e-005		3.7000e-004	3.7000e-004		3.4000e-004	3.4000e-004	0.0000	4.8654	4.8654	7.8000e-004	0.0000	4.8850
Total	**1.4600e-003**	**0.0233**	**0.0377**	**6.0000e-005**		**3.7000e-004**	**3.7000e-004**		**3.4000e-004**	**3.4000e-004**	**0.0000**	**4.8654**	**4.8654**	**7.8000e-004**	**0.0000**	**4.8850**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.0000e-005	2.1000e-004	7.0000e-005	0.0000	3.2000e-004	0.0000	3.2000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.0881	0.0881	0.0000	1.0000e-005	0.0921
Worker	8.0000e-005	6.0000e-005	7.1000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1970	0.1970	0.0000	1.0000e-005	0.1986
Total	**9.0000e-005**	**2.7000e-004**	**7.8000e-004**	**0.0000**	**5.7000e-004**	**0.0000**	**5.7000e-004**	**1.1000e-004**	**0.0000**	**1.1000e-004**	**0.0000**	**0.2851**	**0.2851**	**0.0000**	**2.0000e-005**	**0.2907**

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

3.13 Decommissioning - 2052

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1367	0.5614	1.2482	3.6400e-003		0.0123	0.0123		0.0123	0.0123	0.0000	313.0366	313.0366	0.0108	0.0000	313.3062
Total	**0.1367**	**0.5614**	**1.2482**	**3.6400e-003**		**0.0123**	**0.0123**		**0.0123**	**0.0123**	**0.0000**	**313.0366**	**313.0366**	**0.0108**	**0.0000**	**313.3062**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.0169	0.0000	0.0169	4.1500e-003	0.0000	4.1500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor					0.0129	0.0000	0.0129	1.3700e-003	0.0000	1.3700e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker					0.0284	0.0000	0.0284	6.9700e-003	0.0000	6.9700e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total					**0.0583**	**0.0000**	**0.0583**	**0.0125**	**0.0000**	**0.0125**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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

3.13 Decommissioning - 2052

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0669	0.8741	1.7913	3.6400e-003		5.5500e-003	5.5500e-003		5.5500e-003	5.5500e-003	0.0000	313.0362	313.0362	0.0108	0.0000	313.3058
Total	**0.0669**	**0.8741**	**1.7913**	**3.6400e-003**		**5.5500e-003**	**5.5500e-003**		**5.5500e-003**	**5.5500e-003**	**0.0000**	**313.0362**	**313.0362**	**0.0108**	**0.0000**	**313.3058**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.0169	0.0000	0.0169	4.1500e-003	0.0000	4.1500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor					8.1200e-003	0.0000	8.1200e-003	8.9000e-004	0.0000	8.9000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker					0.0284	0.0000	0.0284	6.9700e-003	0.0000	6.9700e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total					**0.0535**	**0.0000**	**0.0535**	**0.0120**	**0.0000**	**0.0120**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

4.0 Operational Detail - Mobile

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

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	2.0100e-003	5.7100e-003	0.0217	7.0000e-005	6.6000e-003	7.0000e-005	6.6700e-003	1.7600e-003	6.0000e-005	1.8200e-003	0.0000	6.5278	6.5278	2.0000e-004	4.2000e-004	6.6576
Unmitigated	2.0100e-003	5.7100e-003	0.0217	7.0000e-005	6.6000e-003	7.0000e-005	6.6700e-003	1.7600e-003	6.0000e-005	1.8200e-003	0.0000	6.5278	6.5278	2.0000e-004	4.2000e-004	6.6576

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	6.00	6.00	6.00	16,565	16,565
Refrigerated Warehouse-No Rail	0.00	2.04	0.00	1,125	1,125
Total	6.00	8.04	6.00	17,690	17,690

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Office Building	14.70	6.60	6.60	33.00	48.00	19.00	77	19	4
Refrigerated Warehouse-No Rail	14.70	6.60	6.60	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	0.500000	0.250000	0.250000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000

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

Refrigerated Warehouse-No Rail	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	1.000000	0.000000	0.000000	0.000000	0.000000	0.000000

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	52.6620	52.6620	8.5200e-003	1.0300e-003	53.1827
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	52.6620	52.6620	8.5200e-003	1.0300e-003	53.1827
NaturalGas Mitigated	4.0000e-004	3.6100e-003	3.0300e-003	2.0000e-005		2.7000e-004	2.7000e-004		2.7000e-004	2.7000e-004	0.0000	3.9312	3.9312	8.0000e-005	7.0000e-005	3.9545
NaturalGas Unmitigated	4.0000e-004	3.6100e-003	3.0300e-003	2.0000e-005		2.7000e-004	2.7000e-004		2.7000e-004	2.7000e-004	0.0000	3.9312	3.9312	8.0000e-005	7.0000e-005	3.9545

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

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Office Building	40750	2.2000e-004	2.0000e-003	1.6800e-003	1.0000e-005		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004	0.0000	2.1746	2.1746	4.0000e-005	4.0000e-005	2.1875
Refrigerated Warehouse-No Rail	32916.9	1.8000e-004	1.6100e-003	1.3600e-003	1.0000e-005		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004	0.0000	1.7566	1.7566	3.0000e-005	3.0000e-005	1.7670
Total		**4.0000e-004**	**3.6100e-003**	**3.0400e-003**	**2.0000e-005**		**2.7000e-004**	**2.7000e-004**		**2.7000e-004**	**2.7000e-004**	**0.0000**	**3.9312**	**3.9312**	**7.0000e-005**	**7.0000e-005**	**3.9545**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Office Building	40750	2.2000e-004	2.0000e-003	1.6800e-003	1.0000e-005		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004	0.0000	2.1746	2.1746	4.0000e-005	4.0000e-005	2.1875
Refrigerated Warehouse-No Rail	32916.9	1.8000e-004	1.6100e-003	1.3600e-003	1.0000e-005		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004	0.0000	1.7566	1.7566	3.0000e-005	3.0000e-005	1.7670
Total		**4.0000e-004**	**3.6100e-003**	**3.0400e-003**	**2.0000e-005**		**2.7000e-004**	**2.7000e-004**		**2.7000e-004**	**2.7000e-004**	**0.0000**	**3.9312**	**3.9312**	**7.0000e-005**	**7.0000e-005**	**3.9545**

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

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	24150	2.2345	3.6000e-004	4.0000e-005	2.2565
Refrigerated Warehouse-No Rail	545022	50.4275	8.1600e-003	9.9000e-004	50.9262
Total		**52.6620**	**8.5200e-003**	**1.0300e-003**	**53.1827**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	24150	2.2345	3.6000e-004	4.0000e-005	2.2565
Refrigerated Warehouse-No Rail	545022	50.4275	8.1600e-003	9.9000e-004	50.9262
Total		**52.6620**	**8.5200e-003**	**1.0300e-003**	**53.1827**

6.0 Area Detail

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	0.1456	0.0000	2.9000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	5.7000e-004	5.7000e-004	0.0000	0.0000	6.0000e-004
Unmitigated	0.1456	0.0000	2.9000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	5.7000e-004	5.7000e-004	0.0000	0.0000	6.0000e-004

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0220					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1235					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.0000e-005	0.0000	2.9000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	5.7000e-004	5.7000e-004	0.0000	0.0000	6.0000e-004
Total	**0.1456**	**0.0000**	**2.9000e-004**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**5.7000e-004**	**5.7000e-004**	**0.0000**	**0.0000**	**6.0000e-004**

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

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0220					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1235					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.0000e-005	0.0000	2.9000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	5.7000e-004	5.7000e-004	0.0000	0.0000	6.0000e-004
Total	**0.1456**	**0.0000**	**2.9000e-004**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**5.7000e-004**	**5.7000e-004**	**0.0000**	**0.0000**	**6.0000e-004**

7.0 Water Detail

7.1 Mitigation Measures Water

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

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.3634	0.0145	3.5000e-004	0.8295
Unmitigated	0.3634	0.0145	3.5000e-004	0.8295

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	0.444334 / 0	0.3634	0.0145	3.5000e-004	0.8295
Refrigerated Warehouse-No Rail	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**0.3634**	**0.0145**	**3.5000e-004**	**0.8295**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	0.444334 / 0	0.3634	0.0145	3.5000e-004	0.8295
Refrigerated Warehouse-No Rail	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**0.3634**	**0.0145**	**3.5000e-004**	**0.8295**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.4730	0.0280	0.0000	1.1718
Unmitigated	0.4730	0.0280	0.0000	1.1718

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	2.33	0.4730	0.0280	0.0000	1.1718
Refrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000
Total		**0.4730**	**0.0280**	**0.0000**	**1.1718**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	2.33	0.4730	0.0280	0.0000	1.1718
Refrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000
Total		**0.4730**	**0.0280**	**0.0000**	**1.1718**

9.0 Operational Offroad

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

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Cranes	1	8.00	1	231	0.29	Diesel

UnMitigated/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
Equipment Type	tons/yr										MT/yr					
Cranes	1.8000e-004	1.9100e-003	9.2000e-004	0.0000		8.0000e-005	8.0000e-005		7.0000e-005	7.0000e-005	0.0000	0.2535	0.2535	8.0000e-005	0.0000	0.2555
Total	**1.8000e-004**	**1.9100e-003**	**9.2000e-004**	**0.0000**		**8.0000e-005**	**8.0000e-005**		**7.0000e-005**	**7.0000e-005**	**0.0000**	**0.2535**	**0.2535**	**8.0000e-005**	**0.0000**	**0.2555**

10.0 Stationary Equipment

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

11.0 Vegetation

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

North Central Valley Energy Center Project

San Joaquin Valley Unified APCD Air District, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	2.50	1000sqft	0.06	2,500.00	0
Refrigerated Warehouse-No Rail	29.13	1000sqft	0.67	29,130.00	0

1.2 Other Project Characteristics

Urbanization	Rural	**Wind Speed (m/s)**	2.7	**Precipitation Freq (Days)**	45
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 - Based on project description.

Construction Phase - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.

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

Off-road Equipment - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.

Off-road Equipment -

Off-road Equipment - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.

Trips and VMT - Based on applicant provided information.

On-road Fugitive Dust - Assumes 0.25 miles of non-road travel per trip for vendor trucks. All other vehicles will park at staging/substation area.

Grading - Based on applicant provided information.

Vehicle Trips - 3 employees at the operations and maintenance building and water deliveries once per week

Consumer Products - No consumer products.

Landscape Equipment - No landscaping.

Energy Use - CalEEMod defaults.

Water And Wastewater - Water use for operations and maintenance building only.

Solid Waste - CalEEMod defaults for O&M building.

Construction Off-road Equipment Mitigation - In accordance with SJVAPCD Rule 8021.

Operational Off-Road Equipment - Based on applicant provided information.

Fleet Mix - Worker vehicles only for O&M building. HHD for water deliveries.

Table Name	Column Name	Default Value	New Value
tblFleetMix	HHD	0.03	0.00
tblFleetMix	HHD	0.03	1.00
tblFleetMix	LDA	0.51	0.50

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

tblFleetMix	LDA	0.51	0.00
tblFleetMix	LDT1	0.05	0.25
tblFleetMix	LDT1	0.05	0.00
tblFleetMix	LDT2	0.17	0.25
tblFleetMix	LDT2	0.17	0.00
tblFleetMix	LHD1	0.03	0.00
tblFleetMix	LHD1	0.03	0.00
tblFleetMix	LHD2	7.8800e-003	0.00
tblFleetMix	LHD2	7.8800e-003	0.00
tblFleetMix	MCY	0.02	0.00
tblFleetMix	MCY	0.02	0.00
tblFleetMix	MDV	0.17	0.00
tblFleetMix	MDV	0.17	0.00
tblFleetMix	MH	3.7190e-003	0.00
tblFleetMix	MH	3.7190e-003	0.00
tblFleetMix	MHD	0.01	0.00
tblFleetMix	MHD	0.01	0.00
tblFleetMix	OBUS	6.6400e-004	0.00
tblFleetMix	OBUS	6.6400e-004	0.00
tblFleetMix	SBUS	1.5050e-003	0.00
tblFleetMix	SBUS	1.5050e-003	0.00
tblFleetMix	UBUS	3.1700e-004	0.00
tblFleetMix	UBUS	3.1700e-004	0.00
tblGrading	MaterialExported	0.00	650.00
tblGrading	MaterialImported	0.00	1,000.00
tblGrading	MaterialImported	0.00	700.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00

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

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	UsageHours	4.00	8.00
tblOffRoadEquipment	UsageHours	4.00	8.00
tblOffRoadEquipment	UsageHours	4.00	8.00
tblOffRoadEquipment	UsageHours	4.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00

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

tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	1.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOnRoadDust	VendorPercentPave	100.00	98.90
tblOnRoadDust	VendorPercentPave	100.00	98.90
tblOnRoadDust	VendorPercentPave	100.00	98.90
tblOnRoadDust	VendorPercentPave	100.00	98.90
tblOnRoadDust	VendorPercentPave	100.00	98.90
tblOnRoadDust	VendorPercentPave	100.00	98.90
tblOnRoadDust	VendorPercentPave	100.00	98.90
tblOnRoadDust	VendorPercentPave	100.00	98.90
tblOnRoadDust	VendorPercentPave	100.00	98.90
tblOnRoadDust	VendorPercentPave	100.00	98.90
tblOnRoadDust	VendorPercentPave	100.00	98.90
tblOnRoadDust	VendorPercentPave	100.00	98.90
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	1.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	1.00
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblSolidWaste	SolidWasteGenerationRate	27.38	0.00
tblTripsAndVMT	HaulingTripLength	20.00	0.25
tblTripsAndVMT	HaulingTripLength	20.00	0.25

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

tblTripsAndVMT	HaulingTripLength	20.00	0.25
tblTripsAndVMT	HaulingTripLength	20.00	0.25
tblTripsAndVMT	HaulingTripLength	20.00	0.25
tblTripsAndVMT	HaulingTripLength	20.00	0.25
tblTripsAndVMT	HaulingTripLength	20.00	0.25
tblTripsAndVMT	HaulingTripLength	20.00	0.25
tblTripsAndVMT	HaulingTripLength	20.00	0.25
tblTripsAndVMT	HaulingTripLength	20.00	0.25
tblTripsAndVMT	HaulingTripLength	20.00	0.25
tblTripsAndVMT	HaulingTripLength	20.00	0.25
tblTripsAndVMT	HaulingTripNumber	0.00	2,640.00
tblTripsAndVMT	HaulingTripNumber	125.00	126.00
tblTripsAndVMT	HaulingTripNumber	169.00	170.00
tblTripsAndVMT	VendorTripLength	6.60	0.25
tblTripsAndVMT	VendorTripLength	6.60	0.25
tblTripsAndVMT	VendorTripLength	6.60	0.25
tblTripsAndVMT	VendorTripLength	6.60	0.25
tblTripsAndVMT	VendorTripLength	6.60	0.25
tblTripsAndVMT	VendorTripLength	6.60	0.25
tblTripsAndVMT	VendorTripLength	6.60	0.25
tblTripsAndVMT	VendorTripLength	6.60	0.25
tblTripsAndVMT	VendorTripLength	6.60	0.25
tblTripsAndVMT	VendorTripLength	6.60	0.25
tblTripsAndVMT	VendorTripLength	6.60	0.25
tblTripsAndVMT	VendorTripLength	6.60	0.25
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	5.00	20.00
tblTripsAndVMT	VendorTripNumber	5.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00

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

tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	5.00	20.00
tblTripsAndVMT	VendorTripNumber	5.00	20.00
tblTripsAndVMT	VendorTripNumber	5.00	2.00
tblTripsAndVMT	WorkerTripLength	16.80	0.25
tblTripsAndVMT	WorkerTripLength	16.80	0.25
tblTripsAndVMT	WorkerTripLength	16.80	0.25
tblTripsAndVMT	WorkerTripLength	16.80	0.25
tblTripsAndVMT	WorkerTripLength	16.80	0.25
tblTripsAndVMT	WorkerTripLength	16.80	0.25
tblTripsAndVMT	WorkerTripLength	16.80	0.25
tblTripsAndVMT	WorkerTripLength	16.80	0.25
tblTripsAndVMT	WorkerTripLength	16.80	0.25
tblTripsAndVMT	WorkerTripLength	16.80	0.25
tblTripsAndVMT	WorkerTripLength	16.80	0.25
tblTripsAndVMT	WorkerTripLength	16.80	0.25
tblTripsAndVMT	WorkerTripNumber	20.00	40.00
tblTripsAndVMT	WorkerTripNumber	13.00	40.00
tblTripsAndVMT	WorkerTripNumber	13.00	8.00
tblTripsAndVMT	WorkerTripNumber	20.00	40.00
tblTripsAndVMT	WorkerTripNumber	10.00	40.00
tblTripsAndVMT	WorkerTripNumber	20.00	40.00
tblTripsAndVMT	WorkerTripNumber	30.00	40.00
tblTripsAndVMT	WorkerTripNumber	20.00	40.00
tblTripsAndVMT	WorkerTripNumber	15.00	40.00

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

tblTripsAndVMT	WorkerTripNumber	13.00	40.00
tblTripsAndVMT	WorkerTripNumber	13.00	40.00
tblTripsAndVMT	WorkerTripNumber	13.00	10.00
tblVehicleTrips	ST_TR	2.21	2.40
tblVehicleTrips	ST_TR	2.12	0.07
tblVehicleTrips	SU_TR	0.70	2.40
tblVehicleTrips	SU_TR	2.12	0.00
tblVehicleTrips	WD_TR	9.74	2.40
tblVehicleTrips	WD_TR	2.12	0.00
tblWater	IndoorWaterUseRate	6,736,312.50	0.00
tblWater	OutdoorWaterUseRate	272,333.97	0.00

2.0 Emissions Summary

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

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	9.9648	104.8472	71.1136	0.1361	40.9420	4.6540	45.5959	20.3873	4.2833	24.6705	0.0000	13,169.0351	13,169.0351	4.2226	0.0220	13,281.1612
2023	7.6645	66.9764	79.8555	0.1422	0.1881	3.1211	3.2257	0.0236	3.0103	3.0235	0.0000	13,502.2464	13,502.2464	2.3275	0.0199	13,562.1855
2052	2.0708	8.5067	18.9126	0.0552	0.0183	0.1861	0.2045	3.3200e-003	0.1861	0.1895	0.0000	5,228.2383	5,228.2383	0.1802	0.0000	5,232.7421
Maximum	**9.9648**	**104.8472**	**79.8555**	**0.1422**	**40.9420**	**4.6540**	**45.5959**	**20.3873**	**4.2833**	**24.6705**	**0.0000**	**13,502.2464**	**13,502.2464**	**4.2226**	**0.0220**	**13,562.1855**

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	2.9101	47.3703	82.4636	0.1361	18.4496	0.4578	18.8660	9.1804	0.4421	9.5967	0.0000	13,169.0351	13,169.0351	4.2226	0.0220	13,281.1612
2023	3.3254	53.8196	90.7791	0.1422	0.1253	0.5307	0.6008	0.0173	0.5211	0.5310	0.0000	13,502.2464	13,502.2464	2.3275	0.0199	13,562.1855
2052	1.0138	13.2442	27.1413	0.0552	0.0152	0.0840	0.0992	3.0000e-003	0.0840	0.0870	0.0000	5,228.2383	5,228.2383	0.1802	0.0000	5,232.7421
Maximum	**3.3254**	**53.8196**	**90.7791**	**0.1422**	**18.4496**	**0.5307**	**18.8660**	**9.1804**	**0.5211**	**9.5967**	**0.0000**	**13,502.2464**	**13,502.2464**	**4.2226**	**0.0220**	**13,562.1855**

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**63.20**	**36.54**	**-17.96**	**0.00**	**54.82**	**86.53**	**60.09**	**54.93**	**86.00**	**63.37**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.7977	3.0000e-005	3.2300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		6.9200e-003	6.9200e-003	2.0000e-005		7.3800e-003
Energy	2.1800e-003	0.0198	0.0166	1.2000e-004		1.5000e-003	1.5000e-003		1.5000e-003	1.5000e-003		23.7444	23.7444	4.6000e-004	4.4000e-004	23.8855
Mobile	0.0171	0.1538	0.1716	9.7000e-004	0.0535	1.4700e-003	0.0550	0.0144	1.4000e-003	0.0158		101.5848	101.5848	1.4400e-003	0.0118	105.1490
Offroad	0.3514	3.8155	1.8344	5.7700e-003		0.1593	0.1593		0.1466	0.1466	0.0000	558.8192	558.8192	0.1807		563.3376
Total	**1.1684**	**3.9892**	**2.0259**	**6.8600e-003**	**0.0535**	**0.1623**	**0.2158**	**0.0144**	**0.1495**	**0.1639**	**0.0000**	**684.1554**	**684.1554**	**0.1827**	**0.0123**	**692.3795**

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

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.7977	3.0000e-005	3.2300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		6.9200e-003	6.9200e-003	2.0000e-005		7.3800e-003
Energy	2.1800e-003	0.0198	0.0166	1.2000e-004		1.5000e-003	1.5000e-003		1.5000e-003	1.5000e-003		23.7444	23.7444	4.6000e-004	4.4000e-004	23.8855
Mobile	0.0171	0.1538	0.1716	9.7000e-004	0.0535	1.4700e-003	0.0550	0.0144	1.4000e-003	0.0158		101.5848	101.5848	1.4400e-003	0.0118	105.1490
Offroad	0.3514	3.8155	1.8344	5.7700e-003		0.1593	0.1593		0.1466	0.1466	0.0000	558.8192	558.8192	0.1807		563.3376
Total	**1.1684**	**3.9892**	**2.0259**	**6.8600e-003**	**0.0535**	**0.1623**	**0.2158**	**0.0144**	**0.1495**	**0.1639**	**0.0000**	**684.1554**	**684.1554**	**0.1827**	**0.0123**	**692.3795**

	ROG	**NOx**	**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	1/3/2022	2/1/2022	5	22	
2	Collector Substation Site Preparation	Site Preparation	1/3/2022	2/1/2022	5	22	
3	Grading	Grading	1/20/2022	2/18/2022	5	22	
4	Collector Substation Grading	Grading	1/20/2022	2/18/2022	5	22	

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

5	Collector Substation Installation	Building Construction	2/19/2022	6/22/2022	5	88	
6	PG&E Substation Site Preparation	Site Preparation	6/23/2022	7/22/2022	5	22	
7	PG&E Substation Grading	Grading	7/23/2022	8/23/2022	5	22	
8	PG&E Substation Construction	Building Construction	8/24/2022	1/10/2023	5	100	
9	Battery/Container installation	Building Construction	10/28/2022	5/31/2023	5	154	
10	Gen-tie foundation and tower erection	Building Construction	1/11/2023	1/17/2023	5	5	
11	Gen-tie stringing and pulling	Building Construction	1/18/2023	1/24/2023	5	5	
12	Decommissioning	Demolition	1/1/2052	7/2/2052	5	132	

Acres of Grading (Site Preparation Phase): 10

Acres of Grading (Grading Phase): 44

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Graders	2	8.00	187	0.41
Site Preparation	Rubber Tired Loaders	2	8.00	203	0.36
Site Preparation	Skid Steer Loaders	2	8.00	65	0.37
Site Preparation	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Collector Substation Site Preparation	Graders	0	8.00	187	0.41
Collector Substation Site Preparation	Rubber Tired Dozers	2	8.00	247	0.40
Collector Substation Site Preparation	Tractors/Loaders/Backhoes	2	8.00	97	0.37
PG&E Substation Site Preparation	Graders	2	8.00	187	0.41
PG&E Substation Site Preparation	Rubber Tired Loaders	2	8.00	203	0.36
PG&E Substation Site Preparation	Skid Steer Loaders	2	8.00	65	0.37
PG&E Substation Site Preparation	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Grading	Graders	2	8.00	187	0.41

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

Grading	Plate Compactors	2	8.00	8	0.43
Grading	Rollers	2	8.00	80	0.38
Grading	Rubber Tired Dozers	2	8.00	247	0.40
Grading	Skid Steer Loaders	2	8.00	65	0.37
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
PG&E Substation Construction	Cement and Mortar Mixers	2	8.00	9	0.56
PG&E Substation Construction	Cranes	2	8.00	231	0.29
PG&E Substation Construction	Forklifts	2	8.00	89	0.20
PG&E Substation Construction	Pumps	2	8.00	84	0.74
PG&E Substation Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
PG&E Substation Grading	Graders	2	8.00	187	0.41
PG&E Substation Grading	Rollers	2	8.00	80	0.38
PG&E Substation Grading	Rubber Tired Dozers	2	8.00	247	0.40
PG&E Substation Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Collector Substation Grading	Graders	0	6.00	187	0.41
Collector Substation Grading	Rollers	2	8.00	80	0.38
Collector Substation Grading	Rubber Tired Dozers	2	8.00	247	0.40
Collector Substation Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Collector Substation Installation	Aerial Lifts	6	8.00	63	0.31
Collector Substation Installation	Air Compressors	2	8.00	78	0.48
Collector Substation Installation	Bore/Drill Rigs	2	8.00	221	0.50
Collector Substation Installation	Cranes	2	8.00	231	0.29
Collector Substation Installation	Excavators	2	8.00	158	0.38
Collector Substation Installation	Forklifts	0	6.00	89	0.20
Collector Substation Installation	Generator Sets	2	8.00	84	0.74
Collector Substation Installation	Rollers	2	8.00	80	0.38
Collector Substation Installation	Rough Terrain Forklifts	2	8.00	100	0.40
Collector Substation Installation	Rubber Tired Dozers	2	8.00	247	0.40
Collector Substation Installation	Skid Steer Loaders	2	8.00	65	0.37

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

Collector Substation Installation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Collector Substation Installation	Trenchers	4	8.00	78	0.50
Gen-tie foundation and tower erection	Air Compressors	2	8.00	78	0.48
Gen-tie foundation and tower erection	Cranes	2	8.00	231	0.29
Gen-tie foundation and tower erection	Forklifts	2	8.00	89	0.20
Gen-tie foundation and tower erection	Generator Sets	2	8.00	84	0.74
Gen-tie foundation and tower erection	Pumps	2	8.00	84	0.74
Gen-tie foundation and tower erection	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Gen-tie foundation and tower erection	Welders	2	8.00	46	0.45
Battery/Container installation	Air Compressors	4	8.00	78	0.48
Battery/Container installation	Cranes	2	8.00	231	0.29
Battery/Container installation	Excavators	2	8.00	158	0.38
Battery/Container installation	Forklifts	0	6.00	89	0.20
Battery/Container installation	Generator Sets	4	8.00	84	0.74
Battery/Container installation	Plate Compactors	2	8.00	8	0.43
Battery/Container installation	Rollers	2	8.00	80	0.38
Battery/Container installation	Rough Terrain Forklifts	2	8.00	100	0.40
Battery/Container installation	Skid Steer Loaders	2	8.00	65	0.37
Battery/Container installation	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Gen-tie stringing and pulling	Cranes	0	4.00	231	0.29
Gen-tie stringing and pulling	Forklifts	2	8.00	89	0.20
Gen-tie stringing and pulling	Generator Sets	2	8.00	84	0.74
Gen-tie stringing and pulling	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Decommissioning	Concrete/Industrial Saws	2	8.00	81	0.73
Decommissioning	Cranes	2	8.00	231	0.29
Decommissioning	Rubber Tired Dozers	2	8.00	247	0.40
Decommissioning	Tractors/Loaders/Backhoes	2	8.00	97	0.37

Trips and VMT

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	8	40.00	2.00	0.00	0.25	0.25	0.25	LD_Mix	HDT_Mix	HHDT
Collector Substation Site Preparation	4	40.00	2.00	0.00	0.25	0.25	0.25	LD_Mix	HDT_Mix	HHDT
PG&E Substation Site Preparation	8	40.00	2.00	0.00	0.25	0.25	0.25	LD_Mix	HDT_Mix	HHDT
Grading	12	40.00	2.00	126.00	0.25	0.25	0.25	LD_Mix	HDT_Mix	HHDT
PG&E Substation Construction	10	40.00	20.00	0.00	0.25	0.25	0.25	LD_Mix	HDT_Mix	HHDT
PG&E Substation Grading	8	40.00	2.00	0.00	0.25	0.25	0.25	LD_Mix	HDT_Mix	HHDT
Collector Substation Grading	6	40.00	2.00	170.00	0.25	0.25	0.25	LD_Mix	HDT_Mix	HHDT
Collector Substation Installation	32	40.00	20.00	0.00	0.25	0.25	0.25	LD_Mix	HDT_Mix	HHDT
Gen-tie foundation and tower erection	12	10.00	2.00	0.00	0.25	0.25	0.25	LD_Mix	HDT_Mix	HHDT
Battery/Container installation	22	40.00	20.00	0.00	0.25	0.25	0.25	LD_Mix	HDT_Mix	HHDT
Gen-tie stringing and pulling	6	8.00	2.00	0.00	0.25	0.25	0.25	LD_Mix	HDT_Mix	HHDT
Decommissioning	8	40.00	2.00	2,640.00	0.25	0.25	0.25	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					0.4821	0.0000	0.4821	0.0521	0.0000	0.0521			0.0000			0.0000
Off-Road	1.8814	21.7736	13.7562	0.0361		0.7866	0.7866		0.7237	0.7237		3,497.1469	3,497.1469	1.1311		3,525.4231
Total	**1.8814**	**21.7736**	**13.7562**	**0.0361**	**0.4821**	**0.7866**	**1.2687**	**0.0521**	**0.7237**	**0.7757**		**3,497.1469**	**3,497.1469**	**1.1311**		**3,525.4231**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.5200e-003	0.0269	0.0186	5.0000e-005	8.6100e-003	7.0000e-005	8.6700e-003	9.6000e-004	6.0000e-005	1.0200e-003		4.9587	4.9587	9.0000e-005	7.7000e-004	5.1905
Worker	0.0838	0.0233	0.2145	1.5000e-004	7.9900e-003	2.4000e-004	8.2300e-003	2.1700e-003	2.2000e-004	2.3900e-003		15.3583	15.3583	5.1600e-003	2.6800e-003	16.2856
Total	**0.0853**	**0.0503**	**0.2331**	**2.0000e-004**	**0.0166**	**3.1000e-004**	**0.0169**	**3.1300e-003**	**2.8000e-004**	**3.4100e-003**		**20.3169**	**20.3169**	**5.2500e-003**	**3.4500e-003**	**21.4761**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					0.2169	0.0000	0.2169	0.0234	0.0000	0.0234			0.0000			0.0000
Off-Road	0.6636	11.8478	21.5569	0.0361		0.1474	0.1474		0.1474	0.1474	0.0000	3,497.1469	3,497.1469	1.1311		3,525.4231
Total	**0.6636**	**11.8478**	**21.5569**	**0.0361**	**0.2169**	**0.1474**	**0.3643**	**0.0234**	**0.1474**	**0.1708**	**0.0000**	**3,497.1469**	**3,497.1469**	**1.1311**		**3,525.4231**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.5200e-003	0.0269	0.0186	5.0000e-005	5.4700e-003	7.0000e-005	5.5300e-003	6.5000e-004	6.0000e-005	7.1000e-004		4.9587	4.9587	9.0000e-005	7.7000e-004	5.1905
Worker	0.0838	0.0233	0.2145	1.5000e-004	7.9900e-003	2.4000e-004	8.2300e-003	2.1700e-003	2.2000e-004	2.3900e-003		15.3583	15.3583	5.1600e-003	2.6800e-003	16.2856
Total	**0.0853**	**0.0503**	**0.2331**	**2.0000e-004**	**0.0135**	**3.1000e-004**	**0.0138**	**2.8200e-003**	**2.8000e-004**	**3.1000e-003**		**20.3169**	**20.3169**	**5.2500e-003**	**3.4500e-003**	**21.4761**

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

3.3 Collector Substation 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					13.1047	0.0000	13.1047	6.7350	0.0000	6.7350			0.0000			0.0000
Off-Road	2.0036	20.9386	11.6399	0.0233		1.0150	1.0150		0.9338	0.9338		2,256.5486	2,256.5486	0.7298		2,274.7939
Total	**2.0036**	**20.9386**	**11.6399**	**0.0233**	**13.1047**	**1.0150**	**14.1196**	**6.7350**	**0.9338**	**7.6687**		**2,256.5486**	**2,256.5486**	**0.7298**		**2,274.7939**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.5200e-003	0.0269	0.0186	5.0000e-005	8.6100e-003	7.0000e-005	8.6700e-003	9.6000e-004	6.0000e-005	1.0200e-003		4.9587	4.9587	9.0000e-005	7.7000e-004	5.1905
Worker	0.0838	0.0233	0.2145	1.5000e-004	7.9900e-003	2.4000e-004	8.2300e-003	2.1700e-003	2.2000e-004	2.3900e-003		15.3583	15.3583	5.1600e-003	2.6800e-003	16.2856
Total	**0.0853**	**0.0503**	**0.2331**	**2.0000e-004**	**0.0166**	**3.1000e-004**	**0.0169**	**3.1300e-003**	**2.8000e-004**	**3.4100e-003**		**20.3169**	**20.3169**	**5.2500e-003**	**3.4500e-003**	**21.4761**

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

3.3 Collector Substation 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					5.8971	0.0000	5.8971	3.0307	0.0000	3.0307			0.0000			0.0000
Off-Road	0.4181	7.2049	13.7453	0.0233		0.0380	0.0380		0.0380	0.0380	0.0000	2,256.5486	2,256.5486	0.7298		2,274.7939
Total	**0.4181**	**7.2049**	**13.7453**	**0.0233**	**5.8971**	**0.0380**	**5.9351**	**3.0307**	**0.0380**	**3.0687**	**0.0000**	**2,256.5486**	**2,256.5486**	**0.7298**		**2,274.7939**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.5200e-003	0.0269	0.0186	5.0000e-005	5.4700e-003	7.0000e-005	5.5300e-003	6.5000e-004	6.0000e-005	7.1000e-004		4.9587	4.9587	9.0000e-005	7.7000e-004	5.1905
Worker	0.0838	0.0233	0.2145	1.5000e-004	7.9900e-003	2.4000e-004	8.2300e-003	2.1700e-003	2.2000e-004	2.3900e-003		15.3583	15.3583	5.1600e-003	2.6800e-003	16.2856
Total	**0.0853**	**0.0503**	**0.2331**	**2.0000e-004**	**0.0135**	**3.1000e-004**	**0.0138**	**2.8200e-003**	**2.8000e-004**	**3.1000e-003**		**20.3169**	**20.3169**	**5.2500e-003**	**3.4500e-003**	**21.4761**

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

3.4 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					14.1719	0.0000	14.1719	6.8505	0.0000	6.8505			0.0000			0.0000
Off-Road	3.3856	37.2654	21.9994	0.0469		1.6369	1.6369		1.5075	1.5075		4,517.0554	4,517.0554	1.4458		4,553.1995
Total	**3.3856**	**37.2654**	**21.9994**	**0.0469**	**14.1719**	**1.6369**	**15.8087**	**6.8505**	**1.5075**	**8.3580**		**4,517.0554**	**4,517.0554**	**1.4458**		**4,553.1995**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	7.0800e-003	0.1185	0.0901	2.1000e-004	1.3800e-003	1.9000e-004	1.5700e-003	3.9000e-004	1.8000e-004	5.7000e-004		22.2460	22.2460	3.5000e-004	3.5000e-003	23.2970
Vendor	1.5200e-003	0.0269	0.0186	5.0000e-005	8.6100e-003	7.0000e-005	8.6700e-003	9.6000e-004	6.0000e-005	1.0200e-003		4.9587	4.9587	9.0000e-005	7.7000e-004	5.1905
Worker	0.0838	0.0233	0.2145	1.5000e-004	7.9900e-003	2.4000e-004	8.2300e-003	2.1700e-003	2.2000e-004	2.3900e-003		15.3583	15.3583	5.1600e-003	2.6800e-003	16.2856
Total	**0.0924**	**0.1687**	**0.3232**	**4.1000e-004**	**0.0180**	**5.0000e-004**	**0.0185**	**3.5200e-003**	**4.6000e-004**	**3.9800e-003**		**42.5629**	**42.5629**	**5.6000e-003**	**6.9500e-003**	**44.7731**

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

3.4 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					6.3774	0.0000	6.3774	3.0827	0.0000	3.0827			0.0000			0.0000
Off-Road	0.9344	15.8155	28.3043	0.0469		0.1828	0.1828		0.1828	0.1828	0.0000	4,517.0554	4,517.0554	1.4458		4,553.1995
Total	**0.9344**	**15.8155**	**28.3043**	**0.0469**	**6.3774**	**0.1828**	**6.5601**	**3.0827**	**0.1828**	**3.2655**	**0.0000**	**4,517.0554**	**4,517.0554**	**1.4458**		**4,553.1995**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	7.0800e-003	0.1185	0.0901	2.1000e-004	1.3800e-003	1.9000e-004	1.5700e-003	3.9000e-004	1.8000e-004	5.7000e-004		22.2460	22.2460	3.5000e-004	3.5000e-003	23.2970
Vendor	1.5200e-003	0.0269	0.0186	5.0000e-005	5.4700e-003	7.0000e-005	5.5300e-003	6.5000e-004	6.0000e-005	7.1000e-004		4.9587	4.9587	9.0000e-005	7.7000e-004	5.1905
Worker	0.0838	0.0233	0.2145	1.5000e-004	7.9900e-003	2.4000e-004	8.2300e-003	2.1700e-003	2.2000e-004	2.3900e-003		15.3583	15.3583	5.1600e-003	2.6800e-003	16.2856
Total	**0.0924**	**0.1687**	**0.3232**	**4.1000e-004**	**0.0148**	**5.0000e-004**	**0.0153**	**3.2100e-003**	**4.6000e-004**	**3.6700e-003**		**42.5629**	**42.5629**	**5.6000e-003**	**6.9500e-003**	**44.7731**

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

3.5 Collector Substation 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					13.1137	0.0000	13.1137	6.7363	0.0000	6.7363			0.0000			0.0000
Off-Road	2.3362	24.3904	15.3606	0.0285		1.2139	1.2139		1.1168	1.1168		2,764.7562	2,764.7562	0.8942		2,787.1107
Total	**2.3362**	**24.3904**	**15.3606**	**0.0285**	**13.1137**	**1.2139**	**14.3276**	**6.7363**	**1.1168**	**7.8531**		**2,764.7562**	**2,764.7562**	**0.8942**		**2,787.1107**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	9.5600e-003	0.1598	0.1216	2.8000e-004	1.8600e-003	2.6000e-004	2.1100e-003	5.2000e-004	2.5000e-004	7.7000e-004		30.0144	30.0144	4.7000e-004	4.7200e-003	31.4325
Vendor	1.5200e-003	0.0269	0.0186	5.0000e-005	8.6100e-003	7.0000e-005	8.6700e-003	9.6000e-004	6.0000e-005	1.0200e-003		4.9587	4.9587	9.0000e-005	7.7000e-004	5.1905
Worker	0.0838	0.0233	0.2145	1.5000e-004	7.9900e-003	2.4000e-004	8.2300e-003	2.1700e-003	2.2000e-004	2.3900e-003		15.3583	15.3583	5.1600e-003	2.6800e-003	16.2856
Total	**0.0949**	**0.2101**	**0.3547**	**4.8000e-004**	**0.0185**	**5.7000e-004**	**0.0190**	**3.6500e-003**	**5.3000e-004**	**4.1800e-003**		**50.3313**	**50.3313**	**5.7200e-003**	**8.1700e-003**	**52.9086**

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

3.5 Collector Substation 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					5.9012	0.0000	5.9012	3.0314	0.0000	3.0314			0.0000			0.0000
Off-Road	0.5360	9.4997	17.7129	0.0285		0.0466	0.0466		0.0466	0.0466	0.0000	2,764.7562	2,764.7562	0.8942		2,787.1107
Total	**0.5360**	**9.4997**	**17.7129**	**0.0285**	**5.9012**	**0.0466**	**5.9478**	**3.0314**	**0.0466**	**3.0779**	**0.0000**	**2,764.7562**	**2,764.7562**	**0.8942**		**2,787.1107**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	9.5600e-003	0.1598	0.1216	2.8000e-004	1.8600e-003	2.6000e-004	2.1100e-003	5.2000e-004	2.5000e-004	7.7000e-004		30.0144	30.0144	4.7000e-004	4.7200e-003	31.4325
Vendor	1.5200e-003	0.0269	0.0186	5.0000e-005	5.4700e-003	7.0000e-005	5.5300e-003	6.5000e-004	6.0000e-005	7.1000e-004		4.9587	4.9587	9.0000e-005	7.7000e-004	5.1905
Worker	0.0838	0.0233	0.2145	1.5000e-004	7.9900e-003	2.4000e-004	8.2300e-003	2.1700e-003	2.2000e-004	2.3900e-003		15.3583	15.3583	5.1600e-003	2.6800e-003	16.2856
Total	**0.0949**	**0.2101**	**0.3547**	**4.8000e-004**	**0.0153**	**5.7000e-004**	**0.0159**	**3.3400e-003**	**5.3000e-004**	**3.8700e-003**		**50.3313**	**50.3313**	**5.7200e-003**	**8.1700e-003**	**52.9086**

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

3.6 Collector Substation Installation - 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	7.5048	75.5077	70.7128	0.1312		3.7632	3.7632		3.5031	3.5031		12,660.4526	12,660.4526	3.5570		12,749.3769
Total	**7.5048**	**75.5077**	**70.7128**	**0.1312**		**3.7632**	**3.7632**		**3.5031**	**3.5031**		**12,660.4526**	**12,660.4526**	**3.5570**		**12,749.3769**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0152	0.2694	0.1863	4.7000e-004	0.0861	6.7000e-004	0.0867	9.6100e-003	6.4000e-004	0.0103		49.5865	49.5865	8.7000e-004	7.7100e-003	51.9050
Worker	0.0838	0.0233	0.2145	1.5000e-004	7.9900e-003	2.4000e-004	8.2300e-003	2.1700e-003	2.2000e-004	2.3900e-003		15.3583	15.3583	5.1600e-003	2.6800e-003	16.2856
Total	**0.0990**	**0.2927**	**0.4008**	**6.2000e-004**	**0.0941**	**9.1000e-004**	**0.0950**	**0.0118**	**8.6000e-004**	**0.0126**		**64.9448**	**64.9448**	**6.0300e-003**	**0.0104**	**68.1906**

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

3.6 Collector Substation Installation - 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	2.6021	46.4554	78.5617	0.1312		0.4569	0.4569		0.4402	0.4402	0.0000	12,660.4526	12,660.4526	3.5570		12,749.3769
Total	**2.6021**	**46.4554**	**78.5617**	**0.1312**		**0.4569**	**0.4569**		**0.4402**	**0.4402**	**0.0000**	**12,660.4526**	**12,660.4526**	**3.5570**		**12,749.3769**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0152	0.2694	0.1863	4.7000e-004	0.0547	6.7000e-004	0.0553	6.4700e-003	6.4000e-004	7.1100e-003		49.5865	49.5865	8.7000e-004	7.7100e-003	51.9050
Worker	0.0838	0.0233	0.2145	1.5000e-004	7.9900e-003	2.4000e-004	8.2300e-003	2.1700e-003	2.2000e-004	2.3900e-003		15.3583	15.3583	5.1600e-003	2.6800e-003	16.2856
Total	**0.0990**	**0.2927**	**0.4008**	**6.2000e-004**	**0.0627**	**9.1000e-004**	**0.0636**	**8.6400e-003**	**8.6000e-004**	**9.5000e-003**		**64.9448**	**64.9448**	**6.0300e-003**	**0.0104**	**68.1906**

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

3.7 PG&E Substation 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					1.0605	0.0000	1.0605	0.1145	0.0000	0.1145			0.0000			0.0000
Off-Road	1.8814	21.7736	13.7562	0.0361		0.7866	0.7866		0.7237	0.7237		3,497.1469	3,497.1469	1.1311		3,525.4231
Total	**1.8814**	**21.7736**	**13.7562**	**0.0361**	**1.0605**	**0.7866**	**1.8471**	**0.1145**	**0.7237**	**0.8382**		**3,497.1469**	**3,497.1469**	**1.1311**		**3,525.4231**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.5200e-003	0.0269	0.0186	5.0000e-005	8.6100e-003	7.0000e-005	8.6700e-003	9.6000e-004	6.0000e-005	1.0200e-003		4.9587	4.9587	9.0000e-005	7.7000e-004	5.1905
Worker	0.0838	0.0233	0.2145	1.5000e-004	7.9900e-003	2.4000e-004	8.2300e-003	2.1700e-003	2.2000e-004	2.3900e-003		15.3583	15.3583	5.1600e-003	2.6800e-003	16.2856
Total	**0.0853**	**0.0503**	**0.2331**	**2.0000e-004**	**0.0166**	**3.1000e-004**	**0.0169**	**3.1300e-003**	**2.8000e-004**	**3.4100e-003**		**20.3169**	**20.3169**	**5.2500e-003**	**3.4500e-003**	**21.4761**

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

3.7 PG&E Substation 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					0.4772	0.0000	0.4772	0.0515	0.0000	0.0515			0.0000			0.0000
Off-Road	0.6636	11.8478	21.5569	0.0361		0.1474	0.1474		0.1474	0.1474	0.0000	3,497.1469	3,497.1469	1.1311		3,525.4231
Total	**0.6636**	**11.8478**	**21.5569**	**0.0361**	**0.4772**	**0.1474**	**0.6246**	**0.0515**	**0.1474**	**0.1989**	**0.0000**	**3,497.1469**	**3,497.1469**	**1.1311**		**3,525.4231**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.5200e-003	0.0269	0.0186	5.0000e-005	5.4700e-003	7.0000e-005	5.5300e-003	6.5000e-004	6.0000e-005	7.1000e-004		4.9587	4.9587	9.0000e-005	7.7000e-004	5.1905
Worker	0.0838	0.0233	0.2145	1.5000e-004	7.9900e-003	2.4000e-004	8.2300e-003	2.1700e-003	2.2000e-004	2.3900e-003		15.3583	15.3583	5.1600e-003	2.6800e-003	16.2856
Total	**0.0853**	**0.0503**	**0.2331**	**2.0000e-004**	**0.0135**	**3.1000e-004**	**0.0138**	**2.8200e-003**	**2.8000e-004**	**3.1000e-003**		**20.3169**	**20.3169**	**5.2500e-003**	**3.4500e-003**	**21.4761**

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

3.8 PG&E Substation 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					14.1652	0.0000	14.1652	6.8495	0.0000	6.8495			0.0000			0.0000
Off-Road	3.1662	34.9056	18.8041	0.0418		1.5483	1.5483		1.4245	1.4245		4,047.3141	4,047.3141	1.3090		4,080.0387
Total	**3.1662**	**34.9056**	**18.8041**	**0.0418**	**14.1652**	**1.5483**	**15.7135**	**6.8495**	**1.4245**	**8.2739**		**4,047.3141**	**4,047.3141**	**1.3090**		**4,080.0387**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.5200e-003	0.0269	0.0186	5.0000e-005	8.6100e-003	7.0000e-005	8.6700e-003	9.6000e-004	6.0000e-005	1.0200e-003		4.9587	4.9587	9.0000e-005	7.7000e-004	5.1905
Worker	0.0838	0.0233	0.2145	1.5000e-004	7.9900e-003	2.4000e-004	8.2300e-003	2.1700e-003	2.2000e-004	2.3900e-003		15.3583	15.3583	5.1600e-003	2.6800e-003	16.2856
Total	**0.0853**	**0.0503**	**0.2331**	**2.0000e-004**	**0.0166**	**3.1000e-004**	**0.0169**	**3.1300e-003**	**2.8000e-004**	**3.4100e-003**		**20.3169**	**20.3169**	**5.2500e-003**	**3.4500e-003**	**21.4761**

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

3.8 PG&E Substation 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					6.3743	0.0000	6.3743	3.0823	0.0000	3.0823			0.0000			0.0000
Off-Road	0.7524	12.9885	24.7445	0.0418		0.0682	0.0682		0.0682	0.0682	0.0000	4,047.3141	4,047.3141	1.3090		4,080.0387
Total	**0.7524**	**12.9885**	**24.7445**	**0.0418**	**6.3743**	**0.0682**	**6.4426**	**3.0823**	**0.0682**	**3.1505**	**0.0000**	**4,047.3141**	**4,047.3141**	**1.3090**		**4,080.0387**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.5200e-003	0.0269	0.0186	5.0000e-005	5.4700e-003	7.0000e-005	5.5300e-003	6.5000e-004	6.0000e-005	7.1000e-004		4.9587	4.9587	9.0000e-005	7.7000e-004	5.1905
Worker	0.0838	0.0233	0.2145	1.5000e-004	7.9900e-003	2.4000e-004	8.2300e-003	2.1700e-003	2.2000e-004	2.3900e-003		15.3583	15.3583	5.1600e-003	2.6800e-003	16.2856
Total	**0.0853**	**0.0503**	**0.2331**	**2.0000e-004**	**0.0135**	**3.1000e-004**	**0.0138**	**2.8200e-003**	**2.8000e-004**	**3.1000e-003**		**20.3169**	**20.3169**	**5.2500e-003**	**3.4500e-003**	**21.4761**

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

3.9 PG&E Substation 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	2.1239	20.5036	18.6487	0.0354		1.0074	1.0074		0.9540	0.9540		3,363.3020	3,363.3020	0.7262		3,381.4559
Total	**2.1239**	**20.5036**	**18.6487**	**0.0354**		**1.0074**	**1.0074**		**0.9540**	**0.9540**		**3,363.3020**	**3,363.3020**	**0.7262**		**3,381.4559**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0152	0.2694	0.1863	4.7000e-004	0.0861	6.7000e-004	0.0867	9.6100e-003	6.4000e-004	0.0103		49.5865	49.5865	8.7000e-004	7.7100e-003	51.9050
Worker	0.0838	0.0233	0.2145	1.5000e-004	7.9900e-003	2.4000e-004	8.2300e-003	2.1700e-003	2.2000e-004	2.3900e-003		15.3583	15.3583	5.1600e-003	2.6800e-003	16.2856
Total	**0.0990**	**0.2927**	**0.4008**	**6.2000e-004**	**0.0941**	**9.1000e-004**	**0.0950**	**0.0118**	**8.6000e-004**	**0.0126**		**64.9448**	**64.9448**	**6.0300e-003**	**0.0104**	**68.1906**

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

3.9 PG&E Substation 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	0.9142	13.2959	21.8651	0.0354		0.2150	0.2150		0.2038	0.2038	0.0000	3,363.3020	3,363.3020	0.7262		3,381.4559
Total	**0.9142**	**13.2959**	**21.8651**	**0.0354**		**0.2150**	**0.2150**		**0.2038**	**0.2038**	**0.0000**	**3,363.3020**	**3,363.3020**	**0.7262**		**3,381.4559**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0152	0.2694	0.1863	4.7000e-004	0.0547	6.7000e-004	0.0553	6.4700e-003	6.4000e-004	7.1100e-003		49.5865	49.5865	8.7000e-004	7.7100e-003	51.9050
Worker	0.0838	0.0233	0.2145	1.5000e-004	7.9900e-003	2.4000e-004	8.2300e-003	2.1700e-003	2.2000e-004	2.3900e-003		15.3583	15.3583	5.1600e-003	2.6800e-003	16.2856
Total	**0.0990**	**0.2927**	**0.4008**	**6.2000e-004**	**0.0627**	**9.1000e-004**	**0.0636**	**8.6400e-003**	**8.6000e-004**	**9.5000e-003**		**64.9448**	**64.9448**	**6.0300e-003**	**0.0104**	**68.1906**

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

3.9 PG&E Substation 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	1.9837	18.8638	18.4883	0.0354		0.8872	0.8872		0.8401	0.8401		3,363.9549	3,363.9549	0.7198		3,381.9496
Total	**1.9837**	**18.8638**	**18.4883**	**0.0354**		**0.8872**	**0.8872**		**0.8401**	**0.8401**		**3,363.9549**	**3,363.9549**	**0.7198**		**3,381.9496**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0141	0.2587	0.1928	4.5000e-004	0.0861	3.3000e-004	0.0864	9.6100e-003	3.1000e-004	9.9200e-003		47.6303	47.6303	8.2000e-004	7.4000e-003	49.8569
Worker	0.0766	0.0213	0.2046	1.5000e-004	7.9900e-003	2.3000e-004	8.2200e-003	2.1700e-003	2.1000e-004	2.3800e-003		14.8642	14.8642	4.7200e-003	2.5400e-003	15.7400
Total	**0.0907**	**0.2800**	**0.3973**	**6.0000e-004**	**0.0941**	**5.6000e-004**	**0.0946**	**0.0118**	**5.2000e-004**	**0.0123**		**62.4945**	**62.4945**	**5.5400e-003**	**9.9400e-003**	**65.5969**

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

3.9 PG&E Substation 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	0.8921	13.1054	21.8470	0.0354		0.1938	0.1938		0.1843	0.1843	0.0000	3,363.9549	3,363.9549	0.7198		3,381.9496
Total	**0.8921**	**13.1054**	**21.8470**	**0.0354**		**0.1938**	**0.1938**		**0.1843**	**0.1843**	**0.0000**	**3,363.9549**	**3,363.9549**	**0.7198**		**3,381.9496**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0141	0.2587	0.1928	4.5000e-004	0.0547	3.3000e-004	0.0550	6.4700e-003	3.1000e-004	6.7800e-003		47.6303	47.6303	8.2000e-004	7.4000e-003	49.8569
Worker	0.0766	0.0213	0.2046	1.5000e-004	7.9900e-003	2.3000e-004	8.2200e-003	2.1700e-003	2.1000e-004	2.3800e-003		14.8642	14.8642	4.7200e-003	2.5400e-003	15.7400
Total	**0.0907**	**0.2800**	**0.3973**	**6.0000e-004**	**0.0627**	**5.6000e-004**	**0.0632**	**8.6400e-003**	**5.2000e-004**	**9.1600e-003**		**62.4945**	**62.4945**	**5.5400e-003**	**9.9400e-003**	**65.5969**

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

3.10 Battery/Container installation - 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	4.6668	43.2709	50.6399	0.0875		2.1137	2.1137		2.0281	2.0281		8,358.8216	8,358.8216	1.6129		8,399.1445
Total	**4.6668**	**43.2709**	**50.6399**	**0.0875**		**2.1137**	**2.1137**		**2.0281**	**2.0281**		**8,358.8216**	**8,358.8216**	**1.6129**		**8,399.1445**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0152	0.2694	0.1863	4.7000e-004	0.0861	6.7000e-004	0.0867	9.6100e-003	6.4000e-004	0.0103		49.5865	49.5865	8.7000e-004	7.7100e-003	51.9050
Worker	0.0838	0.0233	0.2145	1.5000e-004	7.9900e-003	2.4000e-004	8.2300e-003	2.1700e-003	2.2000e-004	2.3900e-003		15.3583	15.3583	5.1600e-003	2.6800e-003	16.2856
Total	**0.0990**	**0.2927**	**0.4008**	**6.2000e-004**	**0.0941**	**9.1000e-004**	**0.0950**	**0.0118**	**8.6000e-004**	**0.0126**		**64.9448**	**64.9448**	**6.0300e-003**	**0.0104**	**68.1906**

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

3.10 Battery/Container installation - 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	1.6835	33.4890	57.4103	0.0875		0.2366	0.2366		0.2366	0.2366	0.0000	8,358.8216	8,358.8216	1.6129		8,399.1445
Total	**1.6835**	**33.4890**	**57.4103**	**0.0875**		**0.2366**	**0.2366**		**0.2366**	**0.2366**	**0.0000**	**8,358.8216**	**8,358.8216**	**1.6129**		**8,399.1445**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0152	0.2694	0.1863	4.7000e-004	0.0547	6.7000e-004	0.0553	6.4700e-003	6.4000e-004	7.1100e-003		49.5865	49.5865	8.7000e-004	7.7100e-003	51.9050
Worker	0.0838	0.0233	0.2145	1.5000e-004	7.9900e-003	2.4000e-004	8.2300e-003	2.1700e-003	2.2000e-004	2.3900e-003		15.3583	15.3583	5.1600e-003	2.6800e-003	16.2856
Total	**0.0990**	**0.2927**	**0.4008**	**6.2000e-004**	**0.0627**	**9.1000e-004**	**0.0636**	**8.6400e-003**	**8.6000e-004**	**9.5000e-003**		**64.9448**	**64.9448**	**6.0300e-003**	**0.0104**	**68.1906**

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

3.10 Battery/Container installation - 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	4.3579	39.8622	50.4545	0.0875		1.8578	1.8578		1.7820	1.7820		8,359.9508	8,359.9508	1.5966		8,399.8655
Total	**4.3579**	**39.8622**	**50.4545**	**0.0875**		**1.8578**	**1.8578**		**1.7820**	**1.7820**		**8,359.9508**	**8,359.9508**	**1.5966**		**8,399.8655**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0141	0.2587	0.1928	4.5000e-004	0.0861	3.3000e-004	0.0864	9.6100e-003	3.1000e-004	9.9200e-003		47.6303	47.6303	8.2000e-004	7.4000e-003	49.8569
Worker	0.0766	0.0213	0.2046	1.5000e-004	7.9900e-003	2.3000e-004	8.2200e-003	2.1700e-003	2.1000e-004	2.3800e-003		14.8642	14.8642	4.7200e-003	2.5400e-003	15.7400
Total	**0.0907**	**0.2800**	**0.3973**	**6.0000e-004**	**0.0941**	**5.6000e-004**	**0.0946**	**0.0118**	**5.2000e-004**	**0.0123**		**62.4945**	**62.4945**	**5.5400e-003**	**9.9400e-003**	**65.5969**

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

3.10 Battery/Container installation - 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	1.6835	33.4890	57.4103	0.0875		0.2366	0.2366		0.2366	0.2366	0.0000	8,359.9508	8,359.9508	1.5966		8,399.8655
Total	**1.6835**	**33.4890**	**57.4103**	**0.0875**		**0.2366**	**0.2366**		**0.2366**	**0.2366**	**0.0000**	**8,359.9508**	**8,359.9508**	**1.5966**		**8,399.8655**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0141	0.2587	0.1928	4.5000e-004	0.0547	3.3000e-004	0.0550	6.4700e-003	3.1000e-004	6.7800e-003		47.6303	47.6303	8.2000e-004	7.4000e-003	49.8569
Worker	0.0766	0.0213	0.2046	1.5000e-004	7.9900e-003	2.3000e-004	8.2200e-003	2.1700e-003	2.1000e-004	2.3800e-003		14.8642	14.8642	4.7200e-003	2.5400e-003	15.7400
Total	**0.0907**	**0.2800**	**0.3973**	**6.0000e-004**	**0.0627**	**5.6000e-004**	**0.0632**	**8.6400e-003**	**5.2000e-004**	**9.1600e-003**		**62.4945**	**62.4945**	**5.5400e-003**	**9.9400e-003**	**65.5969**

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

3.11 Gen-tie foundation and tower erection - 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	3.1953	26.8030	28.9332	0.0539		1.2626	1.2626		1.2276	1.2276		5,071.3220	5,071.3220	0.6592		5,087.8024
Total	**3.1953**	**26.8030**	**28.9332**	**0.0539**		**1.2626**	**1.2626**		**1.2276**	**1.2276**		**5,071.3220**	**5,071.3220**	**0.6592**		**5,087.8024**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.4100e-003	0.0259	0.0193	5.0000e-005	8.6100e-003	3.0000e-005	8.6400e-003	9.6000e-004	3.0000e-005	9.9000e-004		4.7630	4.7630	8.0000e-005	7.4000e-004	4.9857
Worker	0.0192	5.3300e-003	0.0511	4.0000e-005	2.0000e-003	6.0000e-005	2.0500e-003	5.4000e-004	5.0000e-005	6.0000e-004		3.7161	3.7161	1.1800e-003	6.4000e-004	3.9350
Total	**0.0206**	**0.0312**	**0.0704**	**9.0000e-005**	**0.0106**	**9.0000e-005**	**0.0107**	**1.5000e-003**	**8.0000e-005**	**1.5900e-003**		**8.4791**	**8.4791**	**1.2600e-003**	**1.3800e-003**	**8.9207**

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

3.11 Gen-tie foundation and tower erection - 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	1.5307	20.0194	32.9011	0.0539		0.2934	0.2934		0.2839	0.2839	0.0000	5,071.3220	5,071.3220	0.6592		5,087.8024
Total	**1.5307**	**20.0194**	**32.9011**	**0.0539**		**0.2934**	**0.2934**		**0.2839**	**0.2839**	**0.0000**	**5,071.3220**	**5,071.3220**	**0.6592**		**5,087.8024**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.4100e-003	0.0259	0.0193	5.0000e-005	5.4700e-003	3.0000e-005	5.5000e-003	6.5000e-004	3.0000e-005	6.8000e-004		4.7630	4.7630	8.0000e-005	7.4000e-004	4.9857
Worker	0.0192	5.3300e-003	0.0511	4.0000e-005	2.0000e-003	6.0000e-005	2.0500e-003	5.4000e-004	5.0000e-005	6.0000e-004		3.7161	3.7161	1.1800e-003	6.4000e-004	3.9350
Total	**0.0206**	**0.0312**	**0.0704**	**9.0000e-005**	**7.4700e-003**	**9.0000e-005**	**7.5500e-003**	**1.1900e-003**	**8.0000e-005**	**1.2800e-003**		**8.4791**	**8.4791**	**1.2600e-003**	**1.3800e-003**	**8.9207**

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

3.12 Gen-tie stringing and pulling - 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	1.1195	10.4219	14.0910	0.0224		0.5268	0.5268		0.5052	0.5052		2,145.2838	2,145.2838	0.3456		2,153.9248
Total	**1.1195**	**10.4219**	**14.0910**	**0.0224**		**0.5268**	**0.5268**		**0.5052**	**0.5052**		**2,145.2838**	**2,145.2838**	**0.3456**		**2,153.9248**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.4100e-003	0.0259	0.0193	5.0000e-005	8.6100e-003	3.0000e-005	8.6400e-003	9.6000e-004	3.0000e-005	9.9000e-004		4.7630	4.7630	8.0000e-005	7.4000e-004	4.9857
Worker	0.0153	4.2600e-003	0.0409	3.0000e-005	1.6000e-003	5.0000e-005	1.6400e-003	4.3000e-004	4.0000e-005	4.8000e-004		2.9728	2.9728	9.4000e-004	5.1000e-004	3.1480
Total	**0.0167**	**0.0301**	**0.0602**	**8.0000e-005**	**0.0102**	**8.0000e-005**	**0.0103**	**1.3900e-003**	**7.0000e-005**	**1.4700e-003**		**7.7359**	**7.7359**	**1.0200e-003**	**1.2500e-003**	**8.1337**

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

3.12 Gen-tie stringing and pulling - 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	0.5855	9.3208	15.0865	0.0224		0.1463	0.1463		0.1368	0.1368	0.0000	2,145.2838	2,145.2838	0.3456		2,153.9248
Total	**0.5855**	**9.3208**	**15.0865**	**0.0224**		**0.1463**	**0.1463**		**0.1368**	**0.1368**	**0.0000**	**2,145.2838**	**2,145.2838**	**0.3456**		**2,153.9248**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.4100e-003	0.0259	0.0193	5.0000e-005	5.4700e-003	3.0000e-005	5.5000e-003	6.5000e-004	3.0000e-005	6.8000e-004		4.7630	4.7630	8.0000e-005	7.4000e-004	4.9857
Worker	0.0153	4.2600e-003	0.0409	3.0000e-005	1.6000e-003	5.0000e-005	1.6400e-003	4.3000e-004	4.0000e-005	4.8000e-004		2.9728	2.9728	9.4000e-004	5.1000e-004	3.1480
Total	**0.0167**	**0.0301**	**0.0602**	**8.0000e-005**	**7.0700e-003**	**8.0000e-005**	**7.1400e-003**	**1.0800e-003**	**7.0000e-005**	**1.1600e-003**		**7.7359**	**7.7359**	**1.0200e-003**	**1.2500e-003**	**8.1337**

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

3.13 Decommissioning - 2052

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.0708	8.5067	18.9126	0.0552		0.1861	0.1861		0.1861	0.1861		5,228.2383	5,228.2383	0.1802		5,232.7421
Total	**2.0708**	**8.5067**	**18.9126**	**0.0552**		**0.1861**	**0.1861**		**0.1861**	**0.1861**		**5,228.2383**	**5,228.2383**	**0.1802**		**5,232.7421**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling					3.3100e-003	0.0000	3.3100e-003	8.1000e-004	0.0000	8.1000e-004			0.0000			0.0000
Vendor					8.4200e-003	0.0000	8.4200e-003	8.9000e-004	0.0000	8.9000e-004			0.0000			0.0000
Worker					6.6100e-003	0.0000	6.6100e-003	1.6200e-003	0.0000	1.6200e-003			0.0000			0.0000
Total					**0.0183**	**0.0000**	**0.0183**	**3.3200e-003**	**0.0000**	**3.3200e-003**			**0.0000**			**0.0000**

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

3.13 Decommissioning - 2052

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.0138	13.2442	27.1413	0.0552		0.0840	0.0840		0.0840	0.0840	0.0000	5,228.2383	5,228.2383	0.1802		5,232.7421
Total	**1.0138**	**13.2442**	**27.1413**	**0.0552**		**0.0840**	**0.0840**		**0.0840**	**0.0840**	**0.0000**	**5,228.2383**	**5,228.2383**	**0.1802**		**5,232.7421**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling					3.3100e-003	0.0000	3.3100e-003	8.1000e-004	0.0000	8.1000e-004			0.0000			0.0000
Vendor					5.2800e-003	0.0000	5.2800e-003	5.7000e-004	0.0000	5.7000e-004			0.0000			0.0000
Worker					6.6100e-003	0.0000	6.6100e-003	1.6200e-003	0.0000	1.6200e-003			0.0000			0.0000
Total					**0.0152**	**0.0000**	**0.0152**	**3.0000e-003**	**0.0000**	**3.0000e-003**			**0.0000**			**0.0000**

4.0 Operational Detail - Mobile

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

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0171	0.1538	0.1716	9.7000e-004	0.0535	1.4700e-003	0.0550	0.0144	1.4000e-003	0.0158		101.5848	101.5848	1.4400e-003	0.0118	105.1490
Unmitigated	0.0171	0.1538	0.1716	9.7000e-004	0.0535	1.4700e-003	0.0550	0.0144	1.4000e-003	0.0158		101.5848	101.5848	1.4400e-003	0.0118	105.1490

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	6.00	6.00	6.00	16,565	16,565
Refrigerated Warehouse-No Rail	0.00	2.04	0.00	1,125	1,125
Total	6.00	8.04	6.00	17,690	17,690

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Office Building	14.70	6.60	6.60	33.00	48.00	19.00	77	19	4
Refrigerated Warehouse-No Rail	14.70	6.60	6.60	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	0.500000	0.250000	0.250000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000

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

Refrigerated Warehouse-No Rail	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	1.000000	0.000000	0.000000	0.000000	0.000000	0.000000

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	2.1800e-003	0.0198	0.0166	1.2000e-004		1.5000e-003	1.5000e-003		1.5000e-003	1.5000e-003		23.7444	23.7444	4.6000e-004	4.4000e-004	23.8855
NaturalGas Unmitigated	2.1800e-003	0.0198	0.0166	1.2000e-004		1.5000e-003	1.5000e-003		1.5000e-003	1.5000e-003		23.7444	23.7444	4.6000e-004	4.4000e-004	23.8855

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

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Office Building	111.644	1.2000e-003	0.0110	9.1900e-003	7.0000e-005		8.3000e-004	8.3000e-004		8.3000e-004	8.3000e-004		13.1346	13.1346	2.5000e-004	2.4000e-004	13.2126
Refrigerated Warehouse-No Rail	90.1833	9.7000e-004	8.8400e-003	7.4300e-003	5.0000e-005		6.7000e-004	6.7000e-004		6.7000e-004	6.7000e-004		10.6098	10.6098	2.0000e-004	1.9000e-004	10.6729
Total		**2.1700e-003**	**0.0198**	**0.0166**	**1.2000e-004**		**1.5000e-003**	**1.5000e-003**		**1.5000e-003**	**1.5000e-003**		**23.7444**	**23.7444**	**4.5000e-004**	**4.3000e-004**	**23.8855**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Office Building	0.111644	1.2000e-003	0.0110	9.1900e-003	7.0000e-005		8.3000e-004	8.3000e-004		8.3000e-004	8.3000e-004		13.1346	13.1346	2.5000e-004	2.4000e-004	13.2126
Refrigerated Warehouse-No Rail	0.0901833	9.7000e-004	8.8400e-003	7.4300e-003	5.0000e-005		6.7000e-004	6.7000e-004		6.7000e-004	6.7000e-004		10.6098	10.6098	2.0000e-004	1.9000e-004	10.6729
Total		**2.1700e-003**	**0.0198**	**0.0166**	**1.2000e-004**		**1.5000e-003**	**1.5000e-003**		**1.5000e-003**	**1.5000e-003**		**23.7444**	**23.7444**	**4.5000e-004**	**4.3000e-004**	**23.8855**

6.0 Area Detail

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

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.7977	3.0000e-005	3.2300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		6.9200e-003	6.9200e-003	2.0000e-005		7.3800e-003
Unmitigated	0.7977	3.0000e-005	3.2300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		6.9200e-003	6.9200e-003	2.0000e-005		7.3800e-003

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.1205					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.6769					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	3.0000e-004	3.0000e-005	3.2300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		6.9200e-003	6.9200e-003	2.0000e-005		7.3800e-003
Total	**0.7977**	**3.0000e-005**	**3.2300e-003**	**0.0000**		**1.0000e-005**	**1.0000e-005**		**1.0000e-005**	**1.0000e-005**		**6.9200e-003**	**6.9200e-003**	**2.0000e-005**		**7.3800e-003**

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	0.1205					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.6769					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	3.0000e-004	3.0000e-005	3.2300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		6.9200e-003	6.9200e-003	2.0000e-005		7.3800e-003
Total	**0.7977**	**3.0000e-005**	**3.2300e-003**	**0.0000**		**1.0000e-005**	**1.0000e-005**		**1.0000e-005**	**1.0000e-005**		**6.9200e-003**	**6.9200e-003**	**2.0000e-005**		**7.3800e-003**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Cranes	1	8.00	1	231	0.29	Diesel

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

UnMitigated/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
Equipment Type	lb/day										lb/day					
Cranes	0.3514	3.8155	1.8344	5.7700e-003		0.1593	0.1593		0.1466	0.1466	0.0000	558.8192	558.8192	0.1807		563.3376
Total	**0.3514**	**3.8155**	**1.8344**	**5.7700e-003**		**0.1593**	**0.1593**		**0.1466**	**0.1466**	**0.0000**	**558.8192**	**558.8192**	**0.1807**		**563.3376**

10.0 Stationary Equipment

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

11.0 Vegetation

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

North Central Valley Energy Center Project

San Joaquin Valley Unified APCD Air District, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	2.50	1000sqft	0.06	2,500.00	0
Refrigerated Warehouse-No Rail	29.13	1000sqft	0.67	29,130.00	0

1.2 Other Project Characteristics

Urbanization	Rural	**Wind Speed (m/s)**	2.7	**Precipitation Freq (Days)**	45
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 - Based on project description.

Construction Phase - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.

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

Off-road Equipment - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.

Off-road Equipment -

Off-road Equipment - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.

Trips and VMT - Based on applicant provided information.

On-road Fugitive Dust - Assumes 0.25 miles of non-road travel per trip for vendor trucks. All other vehicles will park at staging/substation area.

Grading - Based on applicant provided information.

Vehicle Trips - 3 employees at the operations and maintenance building and water deliveries once per week

Consumer Products - No consumer products.

Landscape Equipment - No landscaping.

Energy Use - CalEEMod defaults.

Water And Wastewater - Water use for operations and maintenance building only.

Solid Waste - CalEEMod defaults for O&M building.

Construction Off-road Equipment Mitigation - In accordance with SJVAPCD Rule 8021.

Operational Off-Road Equipment - Based on applicant provided information.

Fleet Mix - Worker vehicles only for O&M building. HHD for water deliveries.

Table Name	Column Name	Default Value	New Value
tblFleetMix	HHD	0.03	0.00
tblFleetMix	HHD	0.03	1.00
tblFleetMix	LDA	0.51	0.50

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

tblFleetMix	LDA	0.51	0.00
tblFleetMix	LDT1	0.05	0.25
tblFleetMix	LDT1	0.05	0.00
tblFleetMix	LDT2	0.17	0.25
tblFleetMix	LDT2	0.17	0.00
tblFleetMix	LHD1	0.03	0.00
tblFleetMix	LHD1	0.03	0.00
tblFleetMix	LHD2	7.8800e-003	0.00
tblFleetMix	LHD2	7.8800e-003	0.00
tblFleetMix	MCY	0.02	0.00
tblFleetMix	MCY	0.02	0.00
tblFleetMix	MDV	0.17	0.00
tblFleetMix	MDV	0.17	0.00
tblFleetMix	MH	3.7190e-003	0.00
tblFleetMix	MH	3.7190e-003	0.00
tblFleetMix	MHD	0.01	0.00
tblFleetMix	MHD	0.01	0.00
tblFleetMix	OBUS	6.6400e-004	0.00
tblFleetMix	OBUS	6.6400e-004	0.00
tblFleetMix	SBUS	1.5050e-003	0.00
tblFleetMix	SBUS	1.5050e-003	0.00
tblFleetMix	UBUS	3.1700e-004	0.00
tblFleetMix	UBUS	3.1700e-004	0.00
tblGrading	MaterialExported	0.00	650.00
tblGrading	MaterialImported	0.00	1,000.00
tblGrading	MaterialImported	0.00	700.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00

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

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	UsageHours	4.00	8.00
tblOffRoadEquipment	UsageHours	4.00	8.00
tblOffRoadEquipment	UsageHours	4.00	8.00
tblOffRoadEquipment	UsageHours	4.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00

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

tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	1.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOnRoadDust	VendorPercentPave	100.00	98.90
tblOnRoadDust	VendorPercentPave	100.00	98.90
tblOnRoadDust	VendorPercentPave	100.00	98.90
tblOnRoadDust	VendorPercentPave	100.00	98.90
tblOnRoadDust	VendorPercentPave	100.00	98.90
tblOnRoadDust	VendorPercentPave	100.00	98.90
tblOnRoadDust	VendorPercentPave	100.00	98.90
tblOnRoadDust	VendorPercentPave	100.00	98.90
tblOnRoadDust	VendorPercentPave	100.00	98.90
tblOnRoadDust	VendorPercentPave	100.00	98.90
tblOnRoadDust	VendorPercentPave	100.00	98.90
tblOnRoadDust	VendorPercentPave	100.00	98.90
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	1.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	1.00
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblSolidWaste	SolidWasteGenerationRate	27.38	0.00
tblTripsAndVMT	HaulingTripLength	20.00	0.25
tblTripsAndVMT	HaulingTripLength	20.00	0.25

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

tblTripsAndVMT	HaulingTripLength	20.00	0.25
tblTripsAndVMT	HaulingTripLength	20.00	0.25
tblTripsAndVMT	HaulingTripLength	20.00	0.25
tblTripsAndVMT	HaulingTripLength	20.00	0.25
tblTripsAndVMT	HaulingTripLength	20.00	0.25
tblTripsAndVMT	HaulingTripLength	20.00	0.25
tblTripsAndVMT	HaulingTripLength	20.00	0.25
tblTripsAndVMT	HaulingTripLength	20.00	0.25
tblTripsAndVMT	HaulingTripLength	20.00	0.25
tblTripsAndVMT	HaulingTripLength	20.00	0.25
tblTripsAndVMT	HaulingTripNumber	0.00	2,640.00
tblTripsAndVMT	HaulingTripNumber	125.00	126.00
tblTripsAndVMT	HaulingTripNumber	169.00	170.00
tblTripsAndVMT	VendorTripLength	6.60	0.25
tblTripsAndVMT	VendorTripLength	6.60	0.25
tblTripsAndVMT	VendorTripLength	6.60	0.25
tblTripsAndVMT	VendorTripLength	6.60	0.25
tblTripsAndVMT	VendorTripLength	6.60	0.25
tblTripsAndVMT	VendorTripLength	6.60	0.25
tblTripsAndVMT	VendorTripLength	6.60	0.25
tblTripsAndVMT	VendorTripLength	6.60	0.25
tblTripsAndVMT	VendorTripLength	6.60	0.25
tblTripsAndVMT	VendorTripLength	6.60	0.25
tblTripsAndVMT	VendorTripLength	6.60	0.25
tblTripsAndVMT	VendorTripLength	6.60	0.25
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	5.00	20.00
tblTripsAndVMT	VendorTripNumber	5.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00

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

tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	5.00	20.00
tblTripsAndVMT	VendorTripNumber	5.00	20.00
tblTripsAndVMT	VendorTripNumber	5.00	2.00
tblTripsAndVMT	WorkerTripLength	16.80	0.25
tblTripsAndVMT	WorkerTripLength	16.80	0.25
tblTripsAndVMT	WorkerTripLength	16.80	0.25
tblTripsAndVMT	WorkerTripLength	16.80	0.25
tblTripsAndVMT	WorkerTripLength	16.80	0.25
tblTripsAndVMT	WorkerTripLength	16.80	0.25
tblTripsAndVMT	WorkerTripLength	16.80	0.25
tblTripsAndVMT	WorkerTripLength	16.80	0.25
tblTripsAndVMT	WorkerTripLength	16.80	0.25
tblTripsAndVMT	WorkerTripLength	16.80	0.25
tblTripsAndVMT	WorkerTripLength	16.80	0.25
tblTripsAndVMT	WorkerTripLength	16.80	0.25
tblTripsAndVMT	WorkerTripNumber	20.00	40.00
tblTripsAndVMT	WorkerTripNumber	13.00	40.00
tblTripsAndVMT	WorkerTripNumber	13.00	8.00
tblTripsAndVMT	WorkerTripNumber	20.00	40.00
tblTripsAndVMT	WorkerTripNumber	10.00	40.00
tblTripsAndVMT	WorkerTripNumber	20.00	40.00
tblTripsAndVMT	WorkerTripNumber	30.00	40.00
tblTripsAndVMT	WorkerTripNumber	20.00	40.00
tblTripsAndVMT	WorkerTripNumber	15.00	40.00

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

tblTripsAndVMT	WorkerTripNumber	13.00	40.00
tblTripsAndVMT	WorkerTripNumber	13.00	40.00
tblTripsAndVMT	WorkerTripNumber	13.00	10.00
tblVehicleTrips	ST_TR	2.21	2.40
tblVehicleTrips	ST_TR	2.12	0.07
tblVehicleTrips	SU_TR	0.70	2.40
tblVehicleTrips	SU_TR	2.12	0.00
tblVehicleTrips	WD_TR	9.74	2.40
tblVehicleTrips	WD_TR	2.12	0.00
tblWater	IndoorWaterUseRate	6,736,312.50	0.00
tblWater	OutdoorWaterUseRate	272,333.97	0.00

2.0 Emissions Summary

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

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	9.8552	104.8898	71.2027	0.1361	40.9420	4.6541	45.5960	20.3873	4.2833	24.6706	0.0000	13,165.9448	13,165.9448	4.2300	0.0235	13,278.6924
2023	7.6318	67.0014	79.9591	0.1422	0.1881	3.1211	3.2257	0.0236	3.0103	3.0236	0.0000	13,502.0025	13,502.0025	2.3308	0.0208	13,562.1590
2052	2.0708	8.5067	18.9126	0.0552	0.0183	0.1861	0.2045	3.3200e-003	0.1861	0.1895	0.0000	5,228.2383	5,228.2383	0.1802	0.0000	5,232.7421
Maximum	**9.8552**	**104.8898**	**79.9591**	**0.1422**	**40.9420**	**4.6541**	**45.5960**	**20.3873**	**4.2833**	**24.6706**	**0.0000**	**13,502.0025**	**13,502.0025**	**4.2300**	**0.0235**	**13,562.1590**

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	2.8005	47.4103	82.7838	0.1361	18.4496	0.4578	18.8661	9.1804	0.4422	9.5968	0.0000	13,165.9448	13,165.9448	4.2300	0.0235	13,278.6924
2023	3.2928	53.8446	90.8827	0.1422	0.1253	0.5307	0.6008	0.0173	0.5212	0.5310	0.0000	13,502.0025	13,502.0025	2.3308	0.0208	13,562.1590
2052	1.0138	13.2442	27.1413	0.0552	0.0152	0.0840	0.0992	3.0000e-003	0.0840	0.0870	0.0000	5,228.2383	5,228.2383	0.1802	0.0000	5,232.7421
Maximum	**3.2928**	**53.8446**	**90.8827**	**0.1422**	**18.4496**	**0.5307**	**18.8661**	**9.1804**	**0.5212**	**9.5968**	**0.0000**	**13,502.0025**	**13,502.0025**	**4.2300**	**0.0235**	**13,562.1590**

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**63.66**	**36.53**	**-18.07**	**0.00**	**54.82**	**86.53**	**60.09**	**54.93**	**86.00**	**63.37**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.7977	3.0000e-005	3.2300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		6.9200e-003	6.9200e-003	2.0000e-005		7.3800e-003
Energy	2.1800e-003	0.0198	0.0166	1.2000e-004		1.5000e-003	1.5000e-003		1.5000e-003	1.5000e-003		23.7444	23.7444	4.6000e-004	4.4000e-004	23.8855
Mobile	0.0129	0.1662	0.1591	9.4000e-004	0.0535	1.4700e-003	0.0550	0.0144	1.4000e-003	0.0158		98.2343	98.2343	1.6100e-003	0.0120	101.8433
Offroad	0.3514	3.8155	1.8344	5.7700e-003		0.1593	0.1593		0.1466	0.1466	0.0000	558.8192	558.8192	0.1807		563.3376
Total	**1.1642**	**4.0016**	**2.0134**	**6.8300e-003**	**0.0535**	**0.1623**	**0.2158**	**0.0144**	**0.1495**	**0.1639**	**0.0000**	**680.8048**	**680.8048**	**0.1828**	**0.0124**	**689.0738**

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

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.7977	3.0000e-005	3.2300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		6.9200e-003	6.9200e-003	2.0000e-005		7.3800e-003
Energy	2.1800e-003	0.0198	0.0166	1.2000e-004		1.5000e-003	1.5000e-003		1.5000e-003	1.5000e-003		23.7444	23.7444	4.6000e-004	4.4000e-004	23.8855
Mobile	0.0129	0.1662	0.1591	9.4000e-004	0.0535	1.4700e-003	0.0550	0.0144	1.4000e-003	0.0158		98.2343	98.2343	1.6100e-003	0.0120	101.8433
Offroad	0.3514	3.8155	1.8344	5.7700e-003		0.1593	0.1593		0.1466	0.1466	0.0000	558.8192	558.8192	0.1807		563.3376
Total	**1.1642**	**4.0016**	**2.0134**	**6.8300e-003**	**0.0535**	**0.1623**	**0.2158**	**0.0144**	**0.1495**	**0.1639**	**0.0000**	**680.8048**	**680.8048**	**0.1828**	**0.0124**	**689.0738**

	ROG	NOx	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	1/3/2022	2/1/2022	5	22	
2	Collector Substation Site Preparation	Site Preparation	1/3/2022	2/1/2022	5	22	
3	Grading	Grading	1/20/2022	2/18/2022	5	22	
4	Collector Substation Grading	Grading	1/20/2022	2/18/2022	5	22	

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

5	Collector Substation Installation	Building Construction	2/19/2022	6/22/2022	5	88	
6	PG&E Substation Site Preparation	Site Preparation	6/23/2022	7/22/2022	5	22	
7	PG&E Substation Grading	Grading	7/23/2022	8/23/2022	5	22	
8	PG&E Substation Construction	Building Construction	8/24/2022	1/10/2023	5	100	
9	Battery/Container installation	Building Construction	10/28/2022	5/31/2023	5	154	
10	Gen-tie foundation and tower erection	Building Construction	1/11/2023	1/17/2023	5	5	
11	Gen-tie stringing and pulling	Building Construction	1/18/2023	1/24/2023	5	5	
12	Decommissioning	Demolition	1/1/2052	7/2/2052	5	132	

Acres of Grading (Site Preparation Phase): 10

Acres of Grading (Grading Phase): 44

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Graders	2	8.00	187	0.41
Site Preparation	Rubber Tired Loaders	2	8.00	203	0.36
Site Preparation	Skid Steer Loaders	2	8.00	65	0.37
Site Preparation	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Collector Substation Site Preparation	Graders	0	8.00	187	0.41
Collector Substation Site Preparation	Rubber Tired Dozers	2	8.00	247	0.40
Collector Substation Site Preparation	Tractors/Loaders/Backhoes	2	8.00	97	0.37
PG&E Substation Site Preparation	Graders	2	8.00	187	0.41
PG&E Substation Site Preparation	Rubber Tired Loaders	2	8.00	203	0.36
PG&E Substation Site Preparation	Skid Steer Loaders	2	8.00	65	0.37
PG&E Substation Site Preparation	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Grading	Graders	2	8.00	187	0.41

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

Grading	Plate Compactors	2	8.00	8	0.43
Grading	Rollers	2	8.00	80	0.38
Grading	Rubber Tired Dozers	2	8.00	247	0.40
Grading	Skid Steer Loaders	2	8.00	65	0.37
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
PG&E Substation Construction	Cement and Mortar Mixers	2	8.00	9	0.56
PG&E Substation Construction	Cranes	2	8.00	231	0.29
PG&E Substation Construction	Forklifts	2	8.00	89	0.20
PG&E Substation Construction	Pumps	2	8.00	84	0.74
PG&E Substation Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
PG&E Substation Grading	Graders	2	8.00	187	0.41
PG&E Substation Grading	Rollers	2	8.00	80	0.38
PG&E Substation Grading	Rubber Tired Dozers	2	8.00	247	0.40
PG&E Substation Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Collector Substation Grading	Graders	0	6.00	187	0.41
Collector Substation Grading	Rollers	2	8.00	80	0.38
Collector Substation Grading	Rubber Tired Dozers	2	8.00	247	0.40
Collector Substation Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Collector Substation Installation	Aerial Lifts	6	8.00	63	0.31
Collector Substation Installation	Air Compressors	2	8.00	78	0.48
Collector Substation Installation	Bore/Drill Rigs	2	8.00	221	0.50
Collector Substation Installation	Cranes	2	8.00	231	0.29
Collector Substation Installation	Excavators	2	8.00	158	0.38
Collector Substation Installation	Forklifts	0	6.00	89	0.20
Collector Substation Installation	Generator Sets	2	8.00	84	0.74
Collector Substation Installation	Rollers	2	8.00	80	0.38
Collector Substation Installation	Rough Terrain Forklifts	2	8.00	100	0.40
Collector Substation Installation	Rubber Tired Dozers	2	8.00	247	0.40
Collector Substation Installation	Skid Steer Loaders	2	8.00	65	0.37

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

Collector Substation Installation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Collector Substation Installation	Trenchers	4	8.00	78	0.50
Gen-tie foundation and tower erection	Air Compressors	2	8.00	78	0.48
Gen-tie foundation and tower erection	Cranes	2	8.00	231	0.29
Gen-tie foundation and tower erection	Forklifts	2	8.00	89	0.20
Gen-tie foundation and tower erection	Generator Sets	2	8.00	84	0.74
Gen-tie foundation and tower erection	Pumps	2	8.00	84	0.74
Gen-tie foundation and tower erection	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Gen-tie foundation and tower erection	Welders	2	8.00	46	0.45
Battery/Container installation	Air Compressors	4	8.00	78	0.48
Battery/Container installation	Cranes	2	8.00	231	0.29
Battery/Container installation	Excavators	2	8.00	158	0.38
Battery/Container installation	Forklifts	0	6.00	89	0.20
Battery/Container installation	Generator Sets	4	8.00	84	0.74
Battery/Container installation	Plate Compactors	2	8.00	8	0.43
Battery/Container installation	Rollers	2	8.00	80	0.38
Battery/Container installation	Rough Terrain Forklifts	2	8.00	100	0.40
Battery/Container installation	Skid Steer Loaders	2	8.00	65	0.37
Battery/Container installation	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Gen-tie stringing and pulling	Cranes	0	4.00	231	0.29
Gen-tie stringing and pulling	Forklifts	2	8.00	89	0.20
Gen-tie stringing and pulling	Generator Sets	2	8.00	84	0.74
Gen-tie stringing and pulling	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Decommissioning	Concrete/Industrial Saws	2	8.00	81	0.73
Decommissioning	Cranes	2	8.00	231	0.29
Decommissioning	Rubber Tired Dozers	2	8.00	247	0.40
Decommissioning	Tractors/Loaders/Backhoes	2	8.00	97	0.37

Trips and VMT

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	8	40.00	2.00	0.00	0.25	0.25	0.25	LD_Mix	HDT_Mix	HHDT
Collector Substation Site Preparation	4	40.00	2.00	0.00	0.25	0.25	0.25	LD_Mix	HDT_Mix	HHDT
PG&E Substation Site Preparation	8	40.00	2.00	0.00	0.25	0.25	0.25	LD_Mix	HDT_Mix	HHDT
Grading	12	40.00	2.00	126.00	0.25	0.25	0.25	LD_Mix	HDT_Mix	HHDT
PG&E Substation Construction	10	40.00	20.00	0.00	0.25	0.25	0.25	LD_Mix	HDT_Mix	HHDT
PG&E Substation Grading	8	40.00	2.00	0.00	0.25	0.25	0.25	LD_Mix	HDT_Mix	HHDT
Collector Substation Grading	6	40.00	2.00	170.00	0.25	0.25	0.25	LD_Mix	HDT_Mix	HHDT
Collector Substation Installation	32	40.00	20.00	0.00	0.25	0.25	0.25	LD_Mix	HDT_Mix	HHDT
Gen-tie foundation and tower erection	12	10.00	2.00	0.00	0.25	0.25	0.25	LD_Mix	HDT_Mix	HHDT
Battery/Container installation	22	40.00	20.00	0.00	0.25	0.25	0.25	LD_Mix	HDT_Mix	HHDT
Gen-tie stringing and pulling	6	8.00	2.00	0.00	0.25	0.25	0.25	LD_Mix	HDT_Mix	HHDT
Decommissioning	8	40.00	2.00	2,640.00	0.25	0.25	0.25	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					0.4821	0.0000	0.4821	0.0521	0.0000	0.0521			0.0000			0.0000
Off-Road	1.8814	21.7736	13.7562	0.0361		0.7866	0.7866		0.7237	0.7237		3,497.1469	3,497.1469	1.1311		3,525.4231
Total	**1.8814**	**21.7736**	**13.7562**	**0.0361**	**0.4821**	**0.7866**	**1.2687**	**0.0521**	**0.7237**	**0.7757**		**3,497.1469**	**3,497.1469**	**1.1311**		**3,525.4231**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.3800e-003	0.0285	0.0199	5.0000e-005	8.6100e-003	7.0000e-005	8.6800e-003	9.6000e-004	7.0000e-005	1.0300e-003		4.9988	4.9988	8.0000e-005	7.8000e-004	5.2328
Worker	0.0570	0.0276	0.2909	1.4000e-004	7.9900e-003	2.4000e-004	8.2300e-003	2.1700e-003	2.2000e-004	2.3900e-003		14.3969	14.3969	7.0400e-003	3.0100e-003	15.4710
Total	**0.0584**	**0.0561**	**0.3108**	**1.9000e-004**	**0.0166**	**3.1000e-004**	**0.0169**	**3.1300e-003**	**2.9000e-004**	**3.4200e-003**		**19.3957**	**19.3957**	**7.1200e-003**	**3.7900e-003**	**20.7038**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					0.2169	0.0000	0.2169	0.0234	0.0000	0.0234			0.0000			0.0000
Off-Road	0.6636	11.8478	21.5569	0.0361		0.1474	0.1474		0.1474	0.1474	0.0000	3,497.1469	3,497.1469	1.1311		3,525.4231
Total	**0.6636**	**11.8478**	**21.5569**	**0.0361**	**0.2169**	**0.1474**	**0.3643**	**0.0234**	**0.1474**	**0.1708**	**0.0000**	**3,497.1469**	**3,497.1469**	**1.1311**		**3,525.4231**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.3800e-003	0.0285	0.0199	5.0000e-005	5.4700e-003	7.0000e-005	5.5400e-003	6.5000e-004	7.0000e-005	7.1000e-004		4.9988	4.9988	8.0000e-005	7.8000e-004	5.2328
Worker	0.0570	0.0276	0.2909	1.4000e-004	7.9900e-003	2.4000e-004	8.2300e-003	2.1700e-003	2.2000e-004	2.3900e-003		14.3969	14.3969	7.0400e-003	3.0100e-003	15.4710
Total	**0.0584**	**0.0561**	**0.3108**	**1.9000e-004**	**0.0135**	**3.1000e-004**	**0.0138**	**2.8200e-003**	**2.9000e-004**	**3.1000e-003**		**19.3957**	**19.3957**	**7.1200e-003**	**3.7900e-003**	**20.7038**

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

3.3 Collector Substation 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					13.1047	0.0000	13.1047	6.7350	0.0000	6.7350			0.0000			0.0000
Off-Road	2.0036	20.9386	11.6399	0.0233		1.0150	1.0150		0.9338	0.9338		2,256.5486	2,256.5486	0.7298		2,274.7939
Total	**2.0036**	**20.9386**	**11.6399**	**0.0233**	**13.1047**	**1.0150**	**14.1196**	**6.7350**	**0.9338**	**7.6687**		**2,256.5486**	**2,256.5486**	**0.7298**		**2,274.7939**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.3800e-003	0.0285	0.0199	5.0000e-005	8.6100e-003	7.0000e-005	8.6800e-003	9.6000e-004	7.0000e-005	1.0300e-003		4.9988	4.9988	8.0000e-005	7.8000e-004	5.2328
Worker	0.0570	0.0276	0.2909	1.4000e-004	7.9900e-003	2.4000e-004	8.2300e-003	2.1700e-003	2.2000e-004	2.3900e-003		14.3969	14.3969	7.0400e-003	3.0100e-003	15.4710
Total	**0.0584**	**0.0561**	**0.3108**	**1.9000e-004**	**0.0166**	**3.1000e-004**	**0.0169**	**3.1300e-003**	**2.9000e-004**	**3.4200e-003**		**19.3957**	**19.3957**	**7.1200e-003**	**3.7900e-003**	**20.7038**

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

3.3 Collector Substation 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					5.8971	0.0000	5.8971	3.0307	0.0000	3.0307			0.0000			0.0000
Off-Road	0.4181	7.2049	13.7453	0.0233		0.0380	0.0380		0.0380	0.0380	0.0000	2,256.5486	2,256.5486	0.7298		2,274.7939
Total	**0.4181**	**7.2049**	**13.7453**	**0.0233**	**5.8971**	**0.0380**	**5.9351**	**3.0307**	**0.0380**	**3.0687**	**0.0000**	**2,256.5486**	**2,256.5486**	**0.7298**		**2,274.7939**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.3800e-003	0.0285	0.0199	5.0000e-005	5.4700e-003	7.0000e-005	5.5400e-003	6.5000e-004	7.0000e-005	7.1000e-004		4.9988	4.9988	8.0000e-005	7.8000e-004	5.2328
Worker	0.0570	0.0276	0.2909	1.4000e-004	7.9900e-003	2.4000e-004	8.2300e-003	2.1700e-003	2.2000e-004	2.3900e-003		14.3969	14.3969	7.0400e-003	3.0100e-003	15.4710
Total	**0.0584**	**0.0561**	**0.3108**	**1.9000e-004**	**0.0135**	**3.1000e-004**	**0.0138**	**2.8200e-003**	**2.9000e-004**	**3.1000e-003**		**19.3957**	**19.3957**	**7.1200e-003**	**3.7900e-003**	**20.7038**

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

3.4 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					14.1719	0.0000	14.1719	6.8505	0.0000	6.8505			0.0000			0.0000
Off-Road	3.3856	37.2654	21.9994	0.0469		1.6369	1.6369		1.5075	1.5075		4,517.0554	4,517.0554	1.4458		4,553.1995
Total	**3.3856**	**37.2654**	**21.9994**	**0.0469**	**14.1719**	**1.6369**	**15.8087**	**6.8505**	**1.5075**	**8.3580**		**4,517.0554**	**4,517.0554**	**1.4458**		**4,553.1995**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	6.3000e-003	0.1267	0.0942	2.1000e-004	1.3800e-003	2.0000e-004	1.5800e-003	3.9000e-004	1.9000e-004	5.8000e-004		22.4991	22.4991	3.1000e-004	3.5400e-003	23.5611
Vendor	1.3800e-003	0.0285	0.0199	5.0000e-005	8.6100e-003	7.0000e-005	8.6800e-003	9.6000e-004	7.0000e-005	1.0300e-003		4.9988	4.9988	8.0000e-005	7.8000e-004	5.2328
Worker	0.0570	0.0276	0.2909	1.4000e-004	7.9900e-003	2.4000e-004	8.2300e-003	2.1700e-003	2.2000e-004	2.3900e-003		14.3969	14.3969	7.0400e-003	3.0100e-003	15.4710
Total	**0.0647**	**0.1828**	**0.4050**	**4.0000e-004**	**0.0180**	**5.1000e-004**	**0.0185**	**3.5200e-003**	**4.8000e-004**	**4.0000e-003**		**41.8947**	**41.8947**	**7.4300e-003**	**7.3300e-003**	**44.2649**

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

3.4 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					6.3774	0.0000	6.3774	3.0827	0.0000	3.0827			0.0000			0.0000
Off-Road	0.9344	15.8155	28.3043	0.0469		0.1828	0.1828		0.1828	0.1828	0.0000	4,517.0554	4,517.0554	1.4458		4,553.1995
Total	**0.9344**	**15.8155**	**28.3043**	**0.0469**	**6.3774**	**0.1828**	**6.5601**	**3.0827**	**0.1828**	**3.2655**	**0.0000**	**4,517.0554**	**4,517.0554**	**1.4458**		**4,553.1995**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	6.3000e-003	0.1267	0.0942	2.1000e-004	1.3800e-003	2.0000e-004	1.5800e-003	3.9000e-004	1.9000e-004	5.8000e-004		22.4991	22.4991	3.1000e-004	3.5400e-003	23.5611
Vendor	1.3800e-003	0.0285	0.0199	5.0000e-005	5.4700e-003	7.0000e-005	5.5400e-003	6.5000e-004	7.0000e-005	7.1000e-004		4.9988	4.9988	8.0000e-005	7.8000e-004	5.2328
Worker	0.0570	0.0276	0.2909	1.4000e-004	7.9900e-003	2.4000e-004	8.2300e-003	2.1700e-003	2.2000e-004	2.3900e-003		14.3969	14.3969	7.0400e-003	3.0100e-003	15.4710
Total	**0.0647**	**0.1828**	**0.4050**	**4.0000e-004**	**0.0148**	**5.1000e-004**	**0.0154**	**3.2100e-003**	**4.8000e-004**	**3.6800e-003**		**41.8947**	**41.8947**	**7.4300e-003**	**7.3300e-003**	**44.2649**

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

3.5 Collector Substation 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					13.1137	0.0000	13.1137	6.7363	0.0000	6.7363			0.0000			0.0000
Off-Road	2.3362	24.3904	15.3606	0.0285		1.2139	1.2139		1.1168	1.1168		2,764.7562	2,764.7562	0.8942		2,787.1107
Total	**2.3362**	**24.3904**	**15.3606**	**0.0285**	**13.1137**	**1.2139**	**14.3276**	**6.7363**	**1.1168**	**7.8531**		**2,764.7562**	**2,764.7562**	**0.8942**		**2,787.1107**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	8.5000e-003	0.1709	0.1271	2.9000e-004	1.8600e-003	2.7000e-004	2.1300e-003	5.2000e-004	2.6000e-004	7.8000e-004		30.3559	30.3559	4.2000e-004	4.7700e-003	31.7887
Vendor	1.3800e-003	0.0285	0.0199	5.0000e-005	8.6100e-003	7.0000e-005	8.6800e-003	9.6000e-004	7.0000e-005	1.0300e-003		4.9988	4.9988	8.0000e-005	7.8000e-004	5.2328
Worker	0.0570	0.0276	0.2909	1.4000e-004	7.9900e-003	2.4000e-004	8.2300e-003	2.1700e-003	2.2000e-004	2.3900e-003		14.3969	14.3969	7.0400e-003	3.0100e-003	15.4710
Total	**0.0669**	**0.2270**	**0.4378**	**4.8000e-004**	**0.0185**	**5.8000e-004**	**0.0190**	**3.6500e-003**	**5.5000e-004**	**4.2000e-003**		**49.7515**	**49.7515**	**7.5400e-003**	**8.5600e-003**	**52.4926**

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

3.5 Collector Substation 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					5.9012	0.0000	5.9012	3.0314	0.0000	3.0314			0.0000			0.0000
Off-Road	0.5360	9.4997	17.7129	0.0285		0.0466	0.0466		0.0466	0.0466	0.0000	2,764.7562	2,764.7562	0.8942		2,787.1107
Total	**0.5360**	**9.4997**	**17.7129**	**0.0285**	**5.9012**	**0.0466**	**5.9478**	**3.0314**	**0.0466**	**3.0779**	**0.0000**	**2,764.7562**	**2,764.7562**	**0.8942**		**2,787.1107**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	8.5000e-003	0.1709	0.1271	2.9000e-004	1.8600e-003	2.7000e-004	2.1300e-003	5.2000e-004	2.6000e-004	7.8000e-004		30.3559	30.3559	4.2000e-004	4.7700e-003	31.7887
Vendor	1.3800e-003	0.0285	0.0199	5.0000e-005	5.4700e-003	7.0000e-005	5.5400e-003	6.5000e-004	7.0000e-005	7.1000e-004		4.9988	4.9988	8.0000e-005	7.8000e-004	5.2328
Worker	0.0570	0.0276	0.2909	1.4000e-004	7.9900e-003	2.4000e-004	8.2300e-003	2.1700e-003	2.2000e-004	2.3900e-003		14.3969	14.3969	7.0400e-003	3.0100e-003	15.4710
Total	**0.0669**	**0.2270**	**0.4378**	**4.8000e-004**	**0.0153**	**5.8000e-004**	**0.0159**	**3.3400e-003**	**5.5000e-004**	**3.8800e-003**		**49.7515**	**49.7515**	**7.5400e-003**	**8.5600e-003**	**52.4926**

3.6 Collector Substation Installation - 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	7.5048	75.5077	70.7128	0.1312		3.7632	3.7632		3.5031	3.5031		12,660.4526	12,660.4526	3.5570		12,749.3769
Total	**7.5048**	**75.5077**	**70.7128**	**0.1312**		**3.7632**	**3.7632**		**3.5031**	**3.5031**		**12,660.4526**	**12,660.4526**	**3.5570**		**12,749.3769**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0138	0.2852	0.1991	4.7000e-004	0.0861	7.0000e-004	0.0868	9.6100e-003	6.7000e-004	0.0103		49.9881	49.9881	8.3000e-004	7.7800e-003	52.3279
Worker	0.0570	0.0276	0.2909	1.4000e-004	7.9900e-003	2.4000e-004	8.2300e-003	2.1700e-003	2.2000e-004	2.3900e-003		14.3969	14.3969	7.0400e-003	3.0100e-003	15.4710
Total	**0.0708**	**0.3127**	**0.4900**	**6.1000e-004**	**0.0941**	**9.4000e-004**	**0.0950**	**0.0118**	**8.9000e-004**	**0.0127**		**64.3850**	**64.3850**	**7.8700e-003**	**0.0108**	**67.7989**

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

3.6 Collector Substation Installation - 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	2.6021	46.4554	78.5617	0.1312		0.4569	0.4569		0.4402	0.4402	0.0000	12,660.4526	12,660.4526	3.5570		12,749.3769
Total	**2.6021**	**46.4554**	**78.5617**	**0.1312**		**0.4569**	**0.4569**		**0.4402**	**0.4402**	**0.0000**	**12,660.4526**	**12,660.4526**	**3.5570**		**12,749.3769**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0138	0.2852	0.1991	4.7000e-004	0.0547	7.0000e-004	0.0554	6.4700e-003	6.7000e-004	7.1400e-003		49.9881	49.9881	8.3000e-004	7.7800e-003	52.3279
Worker	0.0570	0.0276	0.2909	1.4000e-004	7.9900e-003	2.4000e-004	8.2300e-003	2.1700e-003	2.2000e-004	2.3900e-003		14.3969	14.3969	7.0400e-003	3.0100e-003	15.4710
Total	**0.0708**	**0.3127**	**0.4900**	**6.1000e-004**	**0.0627**	**9.4000e-004**	**0.0636**	**8.6400e-003**	**8.9000e-004**	**9.5300e-003**		**64.3850**	**64.3850**	**7.8700e-003**	**0.0108**	**67.7989**

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

3.7 PG&E Substation 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					1.0605	0.0000	1.0605	0.1145	0.0000	0.1145			0.0000			0.0000
Off-Road	1.8814	21.7736	13.7562	0.0361		0.7866	0.7866		0.7237	0.7237		3,497.1469	3,497.1469	1.1311		3,525.4231
Total	**1.8814**	**21.7736**	**13.7562**	**0.0361**	**1.0605**	**0.7866**	**1.8471**	**0.1145**	**0.7237**	**0.8382**		**3,497.1469**	**3,497.1469**	**1.1311**		**3,525.4231**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.3800e-003	0.0285	0.0199	5.0000e-005	8.6100e-003	7.0000e-005	8.6800e-003	9.6000e-004	7.0000e-005	1.0300e-003		4.9988	4.9988	8.0000e-005	7.8000e-004	5.2328
Worker	0.0570	0.0276	0.2909	1.4000e-004	7.9900e-003	2.4000e-004	8.2300e-003	2.1700e-003	2.2000e-004	2.3900e-003		14.3969	14.3969	7.0400e-003	3.0100e-003	15.4710
Total	**0.0584**	**0.0561**	**0.3108**	**1.9000e-004**	**0.0166**	**3.1000e-004**	**0.0169**	**3.1300e-003**	**2.9000e-004**	**3.4200e-003**		**19.3957**	**19.3957**	**7.1200e-003**	**3.7900e-003**	**20.7038**

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

3.7 PG&E Substation 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					0.4772	0.0000	0.4772	0.0515	0.0000	0.0515			0.0000			0.0000
Off-Road	0.6636	11.8478	21.5569	0.0361		0.1474	0.1474		0.1474	0.1474	0.0000	3,497.1469	3,497.1469	1.1311		3,525.4231
Total	**0.6636**	**11.8478**	**21.5569**	**0.0361**	**0.4772**	**0.1474**	**0.6246**	**0.0515**	**0.1474**	**0.1989**	**0.0000**	**3,497.1469**	**3,497.1469**	**1.1311**		**3,525.4231**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.3800e-003	0.0285	0.0199	5.0000e-005	5.4700e-003	7.0000e-005	5.5400e-003	6.5000e-004	7.0000e-005	7.1000e-004		4.9988	4.9988	8.0000e-005	7.8000e-004	5.2328
Worker	0.0570	0.0276	0.2909	1.4000e-004	7.9900e-003	2.4000e-004	8.2300e-003	2.1700e-003	2.2000e-004	2.3900e-003		14.3969	14.3969	7.0400e-003	3.0100e-003	15.4710
Total	**0.0584**	**0.0561**	**0.3108**	**1.9000e-004**	**0.0135**	**3.1000e-004**	**0.0138**	**2.8200e-003**	**2.9000e-004**	**3.1000e-003**		**19.3957**	**19.3957**	**7.1200e-003**	**3.7900e-003**	**20.7038**

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

3.8 PG&E Substation 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					14.1652	0.0000	14.1652	6.8495	0.0000	6.8495			0.0000			0.0000
Off-Road	3.1662	34.9056	18.8041	0.0418		1.5483	1.5483		1.4245	1.4245		4,047.3141	4,047.3141	1.3090		4,080.0387
Total	**3.1662**	**34.9056**	**18.8041**	**0.0418**	**14.1652**	**1.5483**	**15.7135**	**6.8495**	**1.4245**	**8.2739**		**4,047.3141**	**4,047.3141**	**1.3090**		**4,080.0387**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.3800e-003	0.0285	0.0199	5.0000e-005	8.6100e-003	7.0000e-005	8.6800e-003	9.6000e-004	7.0000e-005	1.0300e-003		4.9988	4.9988	8.0000e-005	7.8000e-004	5.2328
Worker	0.0570	0.0276	0.2909	1.4000e-004	7.9900e-003	2.4000e-004	8.2300e-003	2.1700e-003	2.2000e-004	2.3900e-003		14.3969	14.3969	7.0400e-003	3.0100e-003	15.4710
Total	**0.0584**	**0.0561**	**0.3108**	**1.9000e-004**	**0.0166**	**3.1000e-004**	**0.0169**	**3.1300e-003**	**2.9000e-004**	**3.4200e-003**		**19.3957**	**19.3957**	**7.1200e-003**	**3.7900e-003**	**20.7038**

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

3.8 PG&E Substation 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					6.3743	0.0000	6.3743	3.0823	0.0000	3.0823			0.0000			0.0000
Off-Road	0.7524	12.9885	24.7445	0.0418		0.0682	0.0682		0.0682	0.0682	0.0000	4,047.3141	4,047.3141	1.3090		4,080.0387
Total	**0.7524**	**12.9885**	**24.7445**	**0.0418**	**6.3743**	**0.0682**	**6.4426**	**3.0823**	**0.0682**	**3.1505**	**0.0000**	**4,047.3141**	**4,047.3141**	**1.3090**		**4,080.0387**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.3800e-003	0.0285	0.0199	5.0000e-005	5.4700e-003	7.0000e-005	5.5400e-003	6.5000e-004	7.0000e-005	7.1000e-004		4.9988	4.9988	8.0000e-005	7.8000e-004	5.2328
Worker	0.0570	0.0276	0.2909	1.4000e-004	7.9900e-003	2.4000e-004	8.2300e-003	2.1700e-003	2.2000e-004	2.3900e-003		14.3969	14.3969	7.0400e-003	3.0100e-003	15.4710
Total	**0.0584**	**0.0561**	**0.3108**	**1.9000e-004**	**0.0135**	**3.1000e-004**	**0.0138**	**2.8200e-003**	**2.9000e-004**	**3.1000e-003**		**19.3957**	**19.3957**	**7.1200e-003**	**3.7900e-003**	**20.7038**

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

3.9 PG&E Substation 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	2.1239	20.5036	18.6487	0.0354		1.0074	1.0074		0.9540	0.9540		3,363.3020	3,363.3020	0.7262		3,381.4559
Total	**2.1239**	**20.5036**	**18.6487**	**0.0354**		**1.0074**	**1.0074**		**0.9540**	**0.9540**		**3,363.3020**	**3,363.3020**	**0.7262**		**3,381.4559**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0138	0.2852	0.1991	4.7000e-004	0.0861	7.0000e-004	0.0868	9.6100e-003	6.7000e-004	0.0103		49.9881	49.9881	8.3000e-004	7.7800e-003	52.3279
Worker	0.0570	0.0276	0.2909	1.4000e-004	7.9900e-003	2.4000e-004	8.2300e-003	2.1700e-003	2.2000e-004	2.3900e-003		14.3969	14.3969	7.0400e-003	3.0100e-003	15.4710
Total	**0.0708**	**0.3127**	**0.4900**	**6.1000e-004**	**0.0941**	**9.4000e-004**	**0.0950**	**0.0118**	**8.9000e-004**	**0.0127**		**64.3850**	**64.3850**	**7.8700e-003**	**0.0108**	**67.7989**

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

3.9 PG&E Substation 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	0.9142	13.2959	21.8651	0.0354		0.2150	0.2150		0.2038	0.2038	0.0000	3,363.3020	3,363.3020	0.7262		3,381.4559
Total	**0.9142**	**13.2959**	**21.8651**	**0.0354**		**0.2150**	**0.2150**		**0.2038**	**0.2038**	**0.0000**	**3,363.3020**	**3,363.3020**	**0.7262**		**3,381.4559**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0138	0.2852	0.1991	4.7000e-004	0.0547	7.0000e-004	0.0554	6.4700e-003	6.7000e-004	7.1400e-003		49.9881	49.9881	8.3000e-004	7.7800e-003	52.3279
Worker	0.0570	0.0276	0.2909	1.4000e-004	7.9900e-003	2.4000e-004	8.2300e-003	2.1700e-003	2.2000e-004	2.3900e-003		14.3969	14.3969	7.0400e-003	3.0100e-003	15.4710
Total	**0.0708**	**0.3127**	**0.4900**	**6.1000e-004**	**0.0627**	**9.4000e-004**	**0.0636**	**8.6400e-003**	**8.9000e-004**	**9.5300e-003**		**64.3850**	**64.3850**	**7.8700e-003**	**0.0108**	**67.7989**

3.9 PG&E Substation 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	1.9837	18.8638	18.4883	0.0354		0.8872	0.8872		0.8401	0.8401		3,363.9549	3,363.9549	0.7198		3,381.9496
Total	**1.9837**	**18.8638**	**18.4883**	**0.0354**		**0.8872**	**0.8872**		**0.8401**	**0.8401**		**3,363.9549**	**3,363.9549**	**0.7198**		**3,381.9496**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0125	0.2770	0.2032	4.6000e-004	0.0861	3.4000e-004	0.0864	9.6100e-003	3.3000e-004	9.9300e-003		48.4658	48.4658	7.7000e-004	7.5500e-003	50.7338
Worker	0.0519	0.0252	0.2783	1.4000e-004	7.9900e-003	2.3000e-004	8.2200e-003	2.1700e-003	2.1000e-004	2.3800e-003		13.9339	13.9339	6.4300e-003	2.8600e-003	14.9471
Total	**0.0644**	**0.3022**	**0.4814**	**6.0000e-004**	**0.0941**	**5.7000e-004**	**0.0946**	**0.0118**	**5.4000e-004**	**0.0123**		**62.3997**	**62.3997**	**7.2000e-003**	**0.0104**	**65.6809**

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

3.9 PG&E Substation 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	0.8921	13.1054	21.8470	0.0354		0.1938	0.1938		0.1843	0.1843	0.0000	3,363.9549	3,363.9549	0.7198		3,381.9496
Total	**0.8921**	**13.1054**	**21.8470**	**0.0354**		**0.1938**	**0.1938**		**0.1843**	**0.1843**	**0.0000**	**3,363.9549**	**3,363.9549**	**0.7198**		**3,381.9496**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0125	0.2770	0.2032	4.6000e-004	0.0547	3.4000e-004	0.0550	6.4700e-003	3.3000e-004	6.8000e-003		48.4658	48.4658	7.7000e-004	7.5500e-003	50.7338
Worker	0.0519	0.0252	0.2783	1.4000e-004	7.9900e-003	2.3000e-004	8.2200e-003	2.1700e-003	2.1000e-004	2.3800e-003		13.9339	13.9339	6.4300e-003	2.8600e-003	14.9471
Total	**0.0644**	**0.3022**	**0.4814**	**6.0000e-004**	**0.0627**	**5.7000e-004**	**0.0632**	**8.6400e-003**	**5.4000e-004**	**9.1800e-003**		**62.3997**	**62.3997**	**7.2000e-003**	**0.0104**	**65.6809**

3.10 Battery/Container installation - 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	4.6668	43.2709	50.6399	0.0875		2.1137	2.1137		2.0281	2.0281		8,358.8216	8,358.8216	1.6129		8,399.1445
Total	**4.6668**	**43.2709**	**50.6399**	**0.0875**		**2.1137**	**2.1137**		**2.0281**	**2.0281**		**8,358.8216**	**8,358.8216**	**1.6129**		**8,399.1445**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0138	0.2852	0.1991	4.7000e-004	0.0861	7.0000e-004	0.0868	9.6100e-003	6.7000e-004	0.0103		49.9881	49.9881	8.3000e-004	7.7800e-003	52.3279
Worker	0.0570	0.0276	0.2909	1.4000e-004	7.9900e-003	2.4000e-004	8.2300e-003	2.1700e-003	2.2000e-004	2.3900e-003		14.3969	14.3969	7.0400e-003	3.0100e-003	15.4710
Total	**0.0708**	**0.3127**	**0.4900**	**6.1000e-004**	**0.0941**	**9.4000e-004**	**0.0950**	**0.0118**	**8.9000e-004**	**0.0127**		**64.3850**	**64.3850**	**7.8700e-003**	**0.0108**	**67.7989**

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

3.10 Battery/Container installation - 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	1.6835	33.4890	57.4103	0.0875		0.2366	0.2366		0.2366	0.2366	0.0000	8,358.8216	8,358.8216	1.6129		8,399.1445
Total	**1.6835**	**33.4890**	**57.4103**	**0.0875**		**0.2366**	**0.2366**		**0.2366**	**0.2366**	**0.0000**	**8,358.8216**	**8,358.8216**	**1.6129**		**8,399.1445**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0138	0.2852	0.1991	4.7000e-004	0.0547	7.0000e-004	0.0554	6.4700e-003	6.7000e-004	7.1400e-003		49.9881	49.9881	8.3000e-004	7.7800e-003	52.3279
Worker	0.0570	0.0276	0.2909	1.4000e-004	7.9900e-003	2.4000e-004	8.2300e-003	2.1700e-003	2.2000e-004	2.3900e-003		14.3969	14.3969	7.0400e-003	3.0100e-003	15.4710
Total	**0.0708**	**0.3127**	**0.4900**	**6.1000e-004**	**0.0627**	**9.4000e-004**	**0.0636**	**8.6400e-003**	**8.9000e-004**	**9.5300e-003**		**64.3850**	**64.3850**	**7.8700e-003**	**0.0108**	**67.7989**

3.10 Battery/Container installation - 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	4.3579	39.8622	50.4545	0.0875		1.8578	1.8578		1.7820	1.7820		8,359.9508	8,359.9508	1.5966		8,399.8655
Total	**4.3579**	**39.8622**	**50.4545**	**0.0875**		**1.8578**	**1.8578**		**1.7820**	**1.7820**		**8,359.9508**	**8,359.9508**	**1.5966**		**8,399.8655**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0125	0.2770	0.2032	4.6000e-004	0.0861	3.4000e-004	0.0864	9.6100e-003	3.3000e-004	9.9300e-003		48.4658	48.4658	7.7000e-004	7.5500e-003	50.7338
Worker	0.0519	0.0252	0.2783	1.4000e-004	7.9900e-003	2.3000e-004	8.2200e-003	2.1700e-003	2.1000e-004	2.3800e-003		13.9339	13.9339	6.4300e-003	2.8600e-003	14.9471
Total	**0.0644**	**0.3022**	**0.4814**	**6.0000e-004**	**0.0941**	**5.7000e-004**	**0.0946**	**0.0118**	**5.4000e-004**	**0.0123**		**62.3997**	**62.3997**	**7.2000e-003**	**0.0104**	**65.6809**

3.10 Battery/Container installation - 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	1.6835	33.4890	57.4103	0.0875		0.2366	0.2366		0.2366	0.2366	0.0000	8,359.9508	8,359.9508	1.5966		8,399.8655
Total	**1.6835**	**33.4890**	**57.4103**	**0.0875**		**0.2366**	**0.2366**		**0.2366**	**0.2366**	**0.0000**	**8,359.9508**	**8,359.9508**	**1.5966**		**8,399.8655**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0125	0.2770	0.2032	4.6000e-004	0.0547	3.4000e-004	0.0550	6.4700e-003	3.3000e-004	6.8000e-003		48.4658	48.4658	7.7000e-004	7.5500e-003	50.7338
Worker	0.0519	0.0252	0.2783	1.4000e-004	7.9900e-003	2.3000e-004	8.2200e-003	2.1700e-003	2.1000e-004	2.3800e-003		13.9339	13.9339	6.4300e-003	2.8600e-003	14.9471
Total	**0.0644**	**0.3022**	**0.4814**	**6.0000e-004**	**0.0627**	**5.7000e-004**	**0.0632**	**8.6400e-003**	**5.4000e-004**	**9.1800e-003**		**62.3997**	**62.3997**	**7.2000e-003**	**0.0104**	**65.6809**

3.11 Gen-tie foundation and tower erection - 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	3.1953	26.8030	28.9332	0.0539		1.2626	1.2626		1.2276	1.2276		5,071.3220	5,071.3220	0.6592		5,087.8024
Total	**3.1953**	**26.8030**	**28.9332**	**0.0539**		**1.2626**	**1.2626**		**1.2276**	**1.2276**		**5,071.3220**	**5,071.3220**	**0.6592**		**5,087.8024**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.2500e-003	0.0277	0.0203	5.0000e-005	8.6100e-003	3.0000e-005	8.6400e-003	9.6000e-004	3.0000e-005	9.9000e-004		4.8466	4.8466	8.0000e-005	7.5000e-004	5.0734
Worker	0.0130	6.3000e-003	0.0696	3.0000e-005	2.0000e-003	6.0000e-005	2.0500e-003	5.4000e-004	5.0000e-005	6.0000e-004		3.4835	3.4835	1.6100e-003	7.2000e-004	3.7368
Total	**0.0142**	**0.0340**	**0.0899**	**8.0000e-005**	**0.0106**	**9.0000e-005**	**0.0107**	**1.5000e-003**	**8.0000e-005**	**1.5900e-003**		**8.3300**	**8.3300**	**1.6900e-003**	**1.4700e-003**	**8.8102**

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

3.11 Gen-tie foundation and tower erection - 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	1.5307	20.0194	32.9011	0.0539		0.2934	0.2934		0.2839	0.2839	0.0000	5,071.3220	5,071.3220	0.6592		5,087.8024
Total	**1.5307**	**20.0194**	**32.9011**	**0.0539**		**0.2934**	**0.2934**		**0.2839**	**0.2839**	**0.0000**	**5,071.3220**	**5,071.3220**	**0.6592**		**5,087.8024**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.2500e-003	0.0277	0.0203	5.0000e-005	5.4700e-003	3.0000e-005	5.5000e-003	6.5000e-004	3.0000e-005	6.8000e-004		4.8466	4.8466	8.0000e-005	7.5000e-004	5.0734
Worker	0.0130	6.3000e-003	0.0696	3.0000e-005	2.0000e-003	6.0000e-005	2.0500e-003	5.4000e-004	5.0000e-005	6.0000e-004		3.4835	3.4835	1.6100e-003	7.2000e-004	3.7368
Total	**0.0142**	**0.0340**	**0.0899**	**8.0000e-005**	**7.4700e-003**	**9.0000e-005**	**7.5500e-003**	**1.1900e-003**	**8.0000e-005**	**1.2800e-003**		**8.3300**	**8.3300**	**1.6900e-003**	**1.4700e-003**	**8.8102**

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

3.12 Gen-tie stringing and pulling - 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	1.1195	10.4219	14.0910	0.0224		0.5268	0.5268		0.5052	0.5052		2,145.2838	2,145.2838	0.3456		2,153.9248
Total	**1.1195**	**10.4219**	**14.0910**	**0.0224**		**0.5268**	**0.5268**		**0.5052**	**0.5052**		**2,145.2838**	**2,145.2838**	**0.3456**		**2,153.9248**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.2500e-003	0.0277	0.0203	5.0000e-005	8.6100e-003	3.0000e-005	8.6400e-003	9.6000e-004	3.0000e-005	9.9000e-004		4.8466	4.8466	8.0000e-005	7.5000e-004	5.0734
Worker	0.0104	5.0400e-003	0.0557	3.0000e-005	1.6000e-003	5.0000e-005	1.6400e-003	4.3000e-004	4.0000e-005	4.8000e-004		2.7868	2.7868	1.2900e-003	5.7000e-004	2.9894
Total	**0.0116**	**0.0327**	**0.0760**	**8.0000e-005**	**0.0102**	**8.0000e-005**	**0.0103**	**1.3900e-003**	**7.0000e-005**	**1.4700e-003**		**7.6334**	**7.6334**	**1.3700e-003**	**1.3200e-003**	**8.0628**

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

3.12 Gen-tie stringing and pulling - 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	0.5855	9.3208	15.0865	0.0224		0.1463	0.1463		0.1368	0.1368	0.0000	2,145.2838	2,145.2838	0.3456		2,153.9248
Total	**0.5855**	**9.3208**	**15.0865**	**0.0224**		**0.1463**	**0.1463**		**0.1368**	**0.1368**	**0.0000**	**2,145.2838**	**2,145.2838**	**0.3456**		**2,153.9248**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.2500e-003	0.0277	0.0203	5.0000e-005	5.4700e-003	3.0000e-005	5.5000e-003	6.5000e-004	3.0000e-005	6.8000e-004		4.8466	4.8466	8.0000e-005	7.5000e-004	5.0734
Worker	0.0104	5.0400e-003	0.0557	3.0000e-005	1.6000e-003	5.0000e-005	1.6400e-003	4.3000e-004	4.0000e-005	4.8000e-004		2.7868	2.7868	1.2900e-003	5.7000e-004	2.9894
Total	**0.0116**	**0.0327**	**0.0760**	**8.0000e-005**	**7.0700e-003**	**8.0000e-005**	**7.1400e-003**	**1.0800e-003**	**7.0000e-005**	**1.1600e-003**		**7.6334**	**7.6334**	**1.3700e-003**	**1.3200e-003**	**8.0628**

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

3.13 Decommissioning - 2052

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.0708	8.5067	18.9126	0.0552		0.1861	0.1861		0.1861	0.1861		5,228.2383	5,228.2383	0.1802		5,232.7421
Total	**2.0708**	**8.5067**	**18.9126**	**0.0552**		**0.1861**	**0.1861**		**0.1861**	**0.1861**		**5,228.2383**	**5,228.2383**	**0.1802**		**5,232.7421**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling					3.3100e-003	0.0000	3.3100e-003	8.1000e-004	0.0000	8.1000e-004			0.0000			0.0000
Vendor					8.4200e-003	0.0000	8.4200e-003	8.9000e-004	0.0000	8.9000e-004			0.0000			0.0000
Worker					6.6100e-003	0.0000	6.6100e-003	1.6200e-003	0.0000	1.6200e-003			0.0000			0.0000
Total					**0.0183**	**0.0000**	**0.0183**	**3.3200e-003**	**0.0000**	**3.3200e-003**			**0.0000**			**0.0000**

3.13 Decommissioning - 2052

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.0138	13.2442	27.1413	0.0552		0.0840	0.0840		0.0840	0.0840	0.0000	5,228.2383	5,228.2383	0.1802		5,232.7421
Total	**1.0138**	**13.2442**	**27.1413**	**0.0552**		**0.0840**	**0.0840**		**0.0840**	**0.0840**	**0.0000**	**5,228.2383**	**5,228.2383**	**0.1802**		**5,232.7421**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling					3.3100e-003	0.0000	3.3100e-003	8.1000e-004	0.0000	8.1000e-004			0.0000			0.0000
Vendor					5.2800e-003	0.0000	5.2800e-003	5.7000e-004	0.0000	5.7000e-004			0.0000			0.0000
Worker					6.6100e-003	0.0000	6.6100e-003	1.6200e-003	0.0000	1.6200e-003			0.0000			0.0000
Total					**0.0152**	**0.0000**	**0.0152**	**3.0000e-003**	**0.0000**	**3.0000e-003**			**0.0000**			**0.0000**

4.0 Operational Detail - Mobile

North Central Valley Energy Center Project - San Joaquin Valley Unified APCD Air District, Winter

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

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0129	0.1662	0.1591	9.4000e-004	0.0535	1.4700e-003	0.0550	0.0144	1.4000e-003	0.0158		98.2343	98.2343	1.6100e-003	0.0120	101.8433
Unmitigated	0.0129	0.1662	0.1591	9.4000e-004	0.0535	1.4700e-003	0.0550	0.0144	1.4000e-003	0.0158		98.2343	98.2343	1.6100e-003	0.0120	101.8433

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	6.00	6.00	6.00	16,565	16,565
Refrigerated Warehouse-No Rail	0.00	2.04	0.00	1,125	1,125
Total	6.00	8.04	6.00	17,690	17,690

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Office Building	14.70	6.60	6.60	33.00	48.00	19.00	77	19	4
Refrigerated Warehouse-No Rail	14.70	6.60	6.60	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	0.500000	0.250000	0.250000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000

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

Refrigerated Warehouse-No Rail	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	1.000000	0.000000	0.000000	0.000000	0.000000	0.000000

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	2.1800e-003	0.0198	0.0166	1.2000e-004		1.5000e-003	1.5000e-003		1.5000e-003	1.5000e-003		23.7444	23.7444	4.6000e-004	4.4000e-004	23.8855
NaturalGas Unmitigated	2.1800e-003	0.0198	0.0166	1.2000e-004		1.5000e-003	1.5000e-003		1.5000e-003	1.5000e-003		23.7444	23.7444	4.6000e-004	4.4000e-004	23.8855

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

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Office Building	111.644	1.2000e-003	0.0110	9.1900e-003	7.0000e-005		8.3000e-004	8.3000e-004		8.3000e-004	8.3000e-004		13.1346	13.1346	2.5000e-004	2.4000e-004	13.2126
Refrigerated Warehouse-No Rail	90.1833	9.7000e-004	8.8400e-003	7.4300e-003	5.0000e-005		6.7000e-004	6.7000e-004		6.7000e-004	6.7000e-004		10.6098	10.6098	2.0000e-004	1.9000e-004	10.6729
Total		**2.1700e-003**	**0.0198**	**0.0166**	**1.2000e-004**		**1.5000e-003**	**1.5000e-003**		**1.5000e-003**	**1.5000e-003**		**23.7444**	**23.7444**	**4.5000e-004**	**4.3000e-004**	**23.8855**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Office Building	0.111644	1.2000e-003	0.0110	9.1900e-003	7.0000e-005		8.3000e-004	8.3000e-004		8.3000e-004	8.3000e-004		13.1346	13.1346	2.5000e-004	2.4000e-004	13.2126
Refrigerated Warehouse-No Rail	0.0901833	9.7000e-004	8.8400e-003	7.4300e-003	5.0000e-005		6.7000e-004	6.7000e-004		6.7000e-004	6.7000e-004		10.6098	10.6098	2.0000e-004	1.9000e-004	10.6729
Total		**2.1700e-003**	**0.0198**	**0.0166**	**1.2000e-004**		**1.5000e-003**	**1.5000e-003**		**1.5000e-003**	**1.5000e-003**		**23.7444**	**23.7444**	**4.5000e-004**	**4.3000e-004**	**23.8855**

6.0 Area Detail

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

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.7977	3.0000e-005	3.2300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		6.9200e-003	6.9200e-003	2.0000e-005		7.3800e-003
Unmitigated	0.7977	3.0000e-005	3.2300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		6.9200e-003	6.9200e-003	2.0000e-005		7.3800e-003

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.1205					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.6769					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	3.0000e-004	3.0000e-005	3.2300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		6.9200e-003	6.9200e-003	2.0000e-005		7.3800e-003
Total	**0.7977**	**3.0000e-005**	**3.2300e-003**	**0.0000**		**1.0000e-005**	**1.0000e-005**		**1.0000e-005**	**1.0000e-005**		**6.9200e-003**	**6.9200e-003**	**2.0000e-005**		**7.3800e-003**

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	0.1205					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.6769					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	3.0000e-004	3.0000e-005	3.2300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		6.9200e-003	6.9200e-003	2.0000e-005		7.3800e-003
Total	**0.7977**	**3.0000e-005**	**3.2300e-003**	**0.0000**		**1.0000e-005**	**1.0000e-005**		**1.0000e-005**	**1.0000e-005**		**6.9200e-003**	**6.9200e-003**	**2.0000e-005**		**7.3800e-003**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Cranes	1	8.00	1	231	0.29	Diesel

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

UnMitigated/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
Equipment Type	lb/day										lb/day					
Cranes	0.3514	3.8155	1.8344	5.7700e-003		0.1593	0.1593		0.1466	0.1466	0.0000	558.8192	558.8192	0.1807		563.3376
Total	**0.3514**	**3.8155**	**1.8344**	**5.7700e-003**		**0.1593**	**0.1593**		**0.1466**	**0.1466**	**0.0000**	**558.8192**	**558.8192**	**0.1807**		**563.3376**

10.0 Stationary Equipment

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

11.0 Vegetation

SMAQMD Construction Mitigation Program - Results

Version 9.0

9/7/2021 5:47

Project Name: North Central Valley Energy Storage

Overall Reported Monthly Emissions

Reporting Month: January 2022

Comparison of your project fleet's emissions with the statewide average for construction equipment

		NOx	ROG	PM10	PM2.5
	Project fleet and statewide average construction equipment emission rates (g/bhp-hr)				
Your fleet's emission factors based on data entered >>	Project Fleet	1.66	0.16	0.03	0.02
Calculator estimated statewide average emission factors >>	Statewide Average	2.61	0.37	0.17	0.15
	Absolute Reduction	0.95	0.21	0.14	0.13
	Percent Reduction	**36%**	**56%**	**84%**	**84%**
	Project fleet construction equipment average daily emissions (lbs/day)				
Your fleet's average daily emissions based on data entered >>	Project Fleet	34.18	3.22	0.60	0.57
Calculator estimated average daily fleet emissions using statewide average emission factors >>	Statewide Average	53.72	7.35	3.80	3.56

Project haul truck(s) daily emissions

		NOx	ROG	PM10	PM2.5
	Project haul truck(s) average daily emissions (lbs/day)				
	Project Fleet	**N/A**	**N/A**	**N/A**	**N/A**

Project construction equipment and haul truck total emissions

		NOx	ROG	PM10	PM2.5
	Project total construction equipment and haul truck average daily emissions (lbs/day)				
Days Worked: 22	Construction Equipment	34.18	3.22	0.60	0.57
Days of Hauling: 0	Haul Truck(s)	N/A	N/A	N/A	N/A
	Total	**34.18**	**3.22**	**0.60**	**0.57**

NOTE: No haul truck VMT information provided.

Breaker (kV)	Number of Breakers	Pounds of SF_6	MT of SF_6	Leak Rate	Global Warming Potential	MT CO_2e
138	6	124	0.056	1%	23,900	6.73

Attachment B

CalEEMod Emissions Outputs – PG&E Substation

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

North Central Valley Energy Center Project - PG&E Substation

San Joaquin Valley Unified APCD Air District, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	2.50	1000sqft	0.06	2,500.00	0
Refrigerated Warehouse-No Rail	29.13	1000sqft	0.67	29,130.00	0

1.2 Other Project Characteristics

Urbanization	Rural	**Wind Speed (m/s)**	2.7	**Precipitation Freq (Days)**	45
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 - Based on project description.

Construction Phase - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.

Trips and VMT - Based on applicant provided information.

North Central Valley Energy Center Project - PG&E Substation - San Joaquin Valley Unified APCD Air District, Annual

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

On-road Fugitive Dust - Assumes 0.25 miles of non-road travel per trip for vendor trucks. All other vehicles will park at staging/substation area.

Grading - Based on applicant provided information.

Vehicle Trips - No additional operational trips.

Consumer Products - No consumer products.

Landscape Equipment - No landscaping.

Energy Use - No energy use.

Water And Wastewater - No water use.

Solid Waste - No waste.

Construction Off-road Equipment Mitigation - In accordance with SJVAPCD Rule 8021.

Operational Off-Road Equipment - No equipment

Fleet Mix -

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterExposedAreaPM10PercentReduction	0	55
tblConstDustMitigation	WaterExposedAreaPM25PercentReduction	0	55
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	0.5
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblEnergyUse	LightingElect	3.17	0.00
tblEnergyUse	LightingElect	3.11	0.00
tblEnergyUse	NT24E	3.62	0.00
tblEnergyUse	NT24E	15.28	0.00
tblEnergyUse	NT24NG	0.47	0.00
tblEnergyUse	T24E	2.87	0.00
tblEnergyUse	T24E	0.32	0.00
tblEnergyUse	T24NG	15.83	0.00
tblEnergyUse	T24NG	1.13	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00

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

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	4.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOnRoadDust	VendorPercentPave	100.00	98.90
tblOnRoadDust	VendorPercentPave	100.00	98.90
tblOnRoadDust	VendorPercentPave	100.00	98.90
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblSolidWaste	SolidWasteGenerationRate	2.33	0.00
tblSolidWaste	SolidWasteGenerationRate	27.38	0.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	5.00	20.00
tblTripsAndVMT	WorkerTripNumber	20.00	40.00
tblTripsAndVMT	WorkerTripNumber	20.00	40.00
tblTripsAndVMT	WorkerTripNumber	13.00	40.00
tblVehicleTrips	ST_TR	2.21	0.00
tblVehicleTrips	ST_TR	2.12	0.00
tblVehicleTrips	SU_TR	0.70	0.00
tblVehicleTrips	SU_TR	2.12	0.00
tblVehicleTrips	WD_TR	9.74	0.00
tblVehicleTrips	WD_TR	2.12	0.00
tblWater	IndoorWaterUseRate	444,334.37	0.00
tblWater	IndoorWaterUseRate	6,736,312.50	0.00

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

tblWater	OutdoorWaterUseRate	272,333.97	0.00

2.0 Emissions Summary

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

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2022	0.1685	1.6358	1.3476	2.9900e-003	0.2986	0.0733	0.3718	0.0964	0.0687	0.1651	0.0000	262.8767	262.8767	0.0559	3.4600e-003	265.3036
2023	7.5900e-003	0.0693	0.0706	1.5000e-004	8.7100e-003	3.1300e-003	0.0119	1.2400e-003	2.9700e-003	4.2000e-003	0.0000	13.2937	13.2937	2.3300e-003	2.2000e-004	13.4178
Maximum	**0.1685**	**1.6358**	**1.3476**	**2.9900e-003**	**0.2986**	**0.0733**	**0.3718**	**0.0964**	**0.0687**	**0.1651**	**0.0000**	**262.8767**	**262.8767**	**0.0559**	**3.4600e-003**	**265.3036**

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	0.0723	0.9503	1.6483	2.9900e-003	0.1711	0.0131	0.1842	0.0508	0.0125	0.0633	0.0000	262.8764	262.8764	0.0559	3.4600e-003	265.3033
2023	3.7700e-003	0.0492	0.0824	1.5000e-004	6.1700e-003	7.1000e-004	6.8800e-003	9.8000e-004	6.7000e-004	1.6500e-003	0.0000	13.2937	13.2937	2.3300e-003	2.2000e-004	13.4178
Maximum	**0.0723**	**0.9503**	**1.6483**	**2.9900e-003**	**0.1711**	**0.0131**	**0.1842**	**0.0508**	**0.0125**	**0.0633**	**0.0000**	**262.8764**	**262.8764**	**0.0559**	**3.4600e-003**	**265.3033**

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**56.80**	**41.38**	**-22.03**	**0.00**	**42.32**	**81.93**	**50.21**	**47.02**	**81.58**	**61.64**	**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)
4	**5-13-2022**	**8-12-2022**	0.5468	0.2449
5	**8-13-2022**	**11-12-2022**	0.8458	0.5067
6	**11-13-2022**	**2-12-2023**	0.4994	0.3276
		Highest	0.8458	0.5067

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	0.1456	0.0000	2.9000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	5.7000e-004	5.7000e-004	0.0000	0.0000	6.0000e-004
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.1456**	**0.0000**	**2.9000e-004**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**5.7000e-004**	**5.7000e-004**	**0.0000**	**0.0000**	**6.0000e-004**

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

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.1456	0.0000	2.9000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	5.7000e-004	5.7000e-004	0.0000	0.0000	6.0000e-004
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.1456**	**0.0000**	**2.9000e-004**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**5.7000e-004**	**5.7000e-004**	**0.0000**	**0.0000**	**6.0000e-004**

	ROG	NOx	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	PG&E Substation Site Preparation	Site Preparation	6/23/2022	7/22/2022	5	22	
2	PG&E Substation Grading	Grading	7/23/2022	8/23/2022	5	22	
3	PG&E Substation Construction	Building Construction	8/24/2022	1/10/2023	5	100	

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

Acres of Grading (Site Preparation Phase): 22

Acres of Grading (Grading Phase): 44

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
PG&E Substation Site Preparation	Graders	2	8.00	187	0.41
PG&E Substation Site Preparation	Rubber Tired Loaders	2	8.00	203	0.36
PG&E Substation Site Preparation	Skid Steer Loaders	2	8.00	65	0.37
PG&E Substation Site Preparation	Tractors/Loaders/Backhoes	2	8.00	97	0.37
PG&E Substation Grading	Graders	2	8.00	187	0.41
PG&E Substation Grading	Rollers	2	8.00	80	0.38
PG&E Substation Grading	Rubber Tired Dozers	2	8.00	247	0.40
PG&E Substation Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
PG&E Substation Construction	Cement and Mortar Mixers	2	8.00	9	0.56
PG&E Substation Construction	Cranes	2	8.00	231	0.29
PG&E Substation Construction	Forklifts	2	8.00	89	0.20
PG&E Substation Construction	Pumps	2	8.00	84	0.74
PG&E Substation Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37

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
PG&E Substation Site Preparation	8	40.00	2.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
PG&E Substation Grading	8	40.00	2.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
PG&E Substation Construction	10	40.00	20.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

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

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 PG&E Substation 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					0.0117	0.0000	0.0117	1.2600e-003	0.0000	1.2600e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0207	0.2395	0.1513	4.0000e-004		8.6500e-003	8.6500e-003		7.9600e-003	7.9600e-003	0.0000	34.8981	34.8981	0.0113	0.0000	35.1803
Total	**0.0207**	**0.2395**	**0.1513**	**4.0000e-004**	**0.0117**	**8.6500e-003**	**0.0203**	**1.2600e-003**	**7.9600e-003**	**9.2200e-003**	**0.0000**	**34.8981**	**34.8981**	**0.0113**	**0.0000**	**35.1803**

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

3.2 PG&E Substation 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	4.0000e-005	1.1200e-003	3.3000e-004	0.0000	2.1900e-003	1.0000e-005	2.2000e-003	2.4000e-004	1.0000e-005	2.6000e-004	0.0000	0.4028	0.4028	0.0000	6.0000e-005	0.4209
Worker	1.9700e-003	1.5100e-003	0.0173	5.0000e-005	5.4700e-003	3.0000e-005	5.5000e-003	1.4500e-003	3.0000e-005	1.4800e-003	0.0000	4.4767	4.4767	1.2000e-004	1.3000e-004	4.5173
Total	**2.0100e-003**	**2.6300e-003**	**0.0176**	**5.0000e-005**	**7.6600e-003**	**4.0000e-005**	**7.7000e-003**	**1.6900e-003**	**4.0000e-005**	**1.7400e-003**	**0.0000**	**4.8796**	**4.8796**	**1.2000e-004**	**1.9000e-004**	**4.9382**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					5.2500e-003	0.0000	5.2500e-003	5.7000e-004	0.0000	5.7000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.3000e-003	0.1303	0.2371	4.0000e-004		1.6200e-003	1.6200e-003		1.6200e-003	1.6200e-003	0.0000	34.8981	34.8981	0.0113	0.0000	35.1803
Total	**7.3000e-003**	**0.1303**	**0.2371**	**4.0000e-004**	**5.2500e-003**	**1.6200e-003**	**6.8700e-003**	**5.7000e-004**	**1.6200e-003**	**2.1900e-003**	**0.0000**	**34.8981**	**34.8981**	**0.0113**	**0.0000**	**35.1803**

3.2 PG&E Substation 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	4.0000e-005	1.1200e-003	3.3000e-004	0.0000	1.3900e-003	1.0000e-005	1.4000e-003	1.6000e-004	1.0000e-005	1.8000e-004	0.0000	0.4028	0.4028	0.0000	6.0000e-005	0.4209
Worker	1.9700e-003	1.5100e-003	0.0173	5.0000e-005	5.4700e-003	3.0000e-005	5.5000e-003	1.4500e-003	3.0000e-005	1.4800e-003	0.0000	4.4767	4.4767	1.2000e-004	1.3000e-004	4.5173
Total	**2.0100e-003**	**2.6300e-003**	**0.0176**	**5.0000e-005**	**6.8600e-003**	**4.0000e-005**	**6.9000e-003**	**1.6100e-003**	**4.0000e-005**	**1.6600e-003**	**0.0000**	**4.8796**	**4.8796**	**1.2000e-004**	**1.9000e-004**	**4.9382**

3.3 PG&E Substation 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					0.1558	0.0000	0.1558	0.0753	0.0000	0.0753	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0348	0.3840	0.2068	4.6000e-004		0.0170	0.0170		0.0157	0.0157	0.0000	40.3883	40.3883	0.0131	0.0000	40.7148
Total	**0.0348**	**0.3840**	**0.2068**	**4.6000e-004**	**0.1558**	**0.0170**	**0.1729**	**0.0753**	**0.0157**	**0.0910**	**0.0000**	**40.3883**	**40.3883**	**0.0131**	**0.0000**	**40.7148**

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

3.3 PG&E Substation 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	4.0000e-005	1.1200e-003	3.3000e-004	0.0000	2.1900e-003	1.0000e-005	2.2000e-003	2.4000e-004	1.0000e-005	2.6000e-004	0.0000	0.4028	0.4028	0.0000	6.0000e-005	0.4209
Worker	1.9700e-003	1.5100e-003	0.0173	5.0000e-005	5.4700e-003	3.0000e-005	5.5000e-003	1.4500e-003	3.0000e-005	1.4800e-003	0.0000	4.4767	4.4767	1.2000e-004	1.3000e-004	4.5173
Total	**2.0100e-003**	**2.6300e-003**	**0.0176**	**5.0000e-005**	**7.6600e-003**	**4.0000e-005**	**7.7000e-003**	**1.6900e-003**	**4.0000e-005**	**1.7400e-003**	**0.0000**	**4.8796**	**4.8796**	**1.2000e-004**	**1.9000e-004**	**4.9382**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.0701	0.0000	0.0701	0.0339	0.0000	0.0339	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.2800e-003	0.1429	0.2722	4.6000e-004		7.5000e-004	7.5000e-004		7.5000e-004	7.5000e-004	0.0000	40.3882	40.3882	0.0131	0.0000	40.7148
Total	**8.2800e-003**	**0.1429**	**0.2722**	**4.6000e-004**	**0.0701**	**7.5000e-004**	**0.0709**	**0.0339**	**7.5000e-004**	**0.0347**	**0.0000**	**40.3882**	**40.3882**	**0.0131**	**0.0000**	**40.7148**

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

3.3 PG&E Substation 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	4.0000e-005	1.1200e-003	3.3000e-004	0.0000	1.3900e-003	1.0000e-005	1.4000e-003	1.6000e-004	1.0000e-005	1.8000e-004	0.0000	0.4028	0.4028	0.0000	6.0000e-005	0.4209
Worker	1.9700e-003	1.5100e-003	0.0173	5.0000e-005	5.4700e-003	3.0000e-005	5.5000e-003	1.4500e-003	3.0000e-005	1.4800e-003	0.0000	4.4767	4.4767	1.2000e-004	1.3000e-004	4.5173
Total	**2.0100e-003**	**2.6300e-003**	**0.0176**	**5.0000e-005**	**6.8600e-003**	**4.0000e-005**	**6.9000e-003**	**1.6100e-003**	**4.0000e-005**	**1.6600e-003**	**0.0000**	**4.8796**	**4.8796**	**1.2000e-004**	**1.9000e-004**	**4.9382**

3.4 PG&E Substation 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	0.0988	0.9534	0.8672	1.6500e-003		0.0469	0.0469		0.0444	0.0444	0.0000	141.8778	141.8778	0.0306	0.0000	142.6436
Total	**0.0988**	**0.9534**	**0.8672**	**1.6500e-003**		**0.0469**	**0.0469**		**0.0444**	**0.0444**	**0.0000**	**141.8778**	**141.8778**	**0.0306**	**0.0000**	**142.6436**

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

3.4 PG&E Substation 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	1.8800e-003	0.0473	0.0141	1.8000e-004	0.0927	5.1000e-004	0.0932	0.0103	4.9000e-004	0.0108	0.0000	17.0289	17.0289	1.1000e-004	2.5500e-003	17.7928
Worker	8.3200e-003	6.3700e-003	0.0730	2.1000e-004	0.0231	1.2000e-004	0.0233	6.1400e-003	1.1000e-004	6.2600e-003	0.0000	18.9244	18.9244	5.1000e-004	5.3000e-004	19.0957
Total	**0.0102**	**0.0536**	**0.0871**	**3.9000e-004**	**0.1158**	**6.3000e-004**	**0.1164**	**0.0164**	**6.0000e-004**	**0.0171**	**0.0000**	**35.9533**	**35.9533**	**6.2000e-004**	**3.0800e-003**	**36.8885**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0425	0.6183	1.0167	1.6500e-003		0.0100	0.0100		9.4800e-003	9.4800e-003	0.0000	141.8777	141.8777	0.0306	0.0000	142.6435
Total	**0.0425**	**0.6183**	**1.0167**	**1.6500e-003**		**0.0100**	**0.0100**		**9.4800e-003**	**9.4800e-003**	**0.0000**	**141.8777**	**141.8777**	**0.0306**	**0.0000**	**142.6435**

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

3.4 PG&E Substation 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	1.8800e-003	0.0473	0.0141	1.8000e-004	0.0589	5.1000e-004	0.0594	6.9200e-003	4.9000e-004	7.4100e-003	0.0000	17.0289	17.0289	1.1000e-004	2.5500e-003	17.7928
Worker	8.3200e-003	6.3700e-003	0.0730	2.1000e-004	0.0231	1.2000e-004	0.0233	6.1400e-003	1.1000e-004	6.2600e-003	0.0000	18.9244	18.9244	5.1000e-004	5.3000e-004	19.0957
Total	**0.0102**	**0.0536**	**0.0871**	**3.9000e-004**	**0.0820**	**6.3000e-004**	**0.0826**	**0.0131**	**6.0000e-004**	**0.0137**	**0.0000**	**35.9533**	**35.9533**	**6.2000e-004**	**3.0800e-003**	**36.8885**

3.4 PG&E Substation 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	6.9400e-003	0.0660	0.0647	1.2000e-004		3.1100e-003	3.1100e-003		2.9400e-003	2.9400e-003	0.0000	10.6811	10.6811	2.2900e-003	0.0000	10.7382
Total	**6.9400e-003**	**0.0660**	**0.0647**	**1.2000e-004**		**3.1100e-003**	**3.1100e-003**		**2.9400e-003**	**2.9400e-003**	**0.0000**	**10.6811**	**10.6811**	**2.2900e-003**	**0.0000**	**10.7382**

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

3.4 PG&E Substation 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	7.0000e-005	2.8800e-003	9.2000e-004	1.0000e-005	6.9700e-003	2.0000e-005	6.9900e-003	7.7000e-004	2.0000e-005	7.9000e-004	0.0000	1.2340	1.2340	1.0000e-005	1.8000e-004	1.2892
Worker	5.7000e-004	4.2000e-004	4.9900e-003	2.0000e-005	1.7400e-003	1.0000e-005	1.7500e-003	4.6000e-004	1.0000e-005	4.7000e-004	0.0000	1.3787	1.3787	3.0000e-005	4.0000e-005	1.3904
Total	**6.4000e-004**	**3.3000e-003**	**5.9100e-003**	**3.0000e-005**	**8.7100e-003**	**3.0000e-005**	**8.7400e-003**	**1.2300e-003**	**3.0000e-005**	**1.2600e-003**	**0.0000**	**2.6127**	**2.6127**	**4.0000e-005**	**2.2000e-004**	**2.6796**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	3.1200e-003	0.0459	0.0765	1.2000e-004		6.8000e-004	6.8000e-004		6.5000e-004	6.5000e-004	0.0000	10.6810	10.6810	2.2900e-003	0.0000	10.7382
Total	**3.1200e-003**	**0.0459**	**0.0765**	**1.2000e-004**		**6.8000e-004**	**6.8000e-004**		**6.5000e-004**	**6.5000e-004**	**0.0000**	**10.6810**	**10.6810**	**2.2900e-003**	**0.0000**	**10.7382**

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

3.4 PG&E Substation 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	7.0000e-005	2.8800e-003	9.2000e-004	1.0000e-005	4.4300e-003	2.0000e-005	4.4500e-003	5.2000e-004	2.0000e-005	5.4000e-004	0.0000	1.2340	1.2340	1.0000e-005	1.8000e-004	1.2892
Worker	5.7000e-004	4.2000e-004	4.9900e-003	2.0000e-005	1.7400e-003	1.0000e-005	1.7500e-003	4.6000e-004	1.0000e-005	4.7000e-004	0.0000	1.3787	1.3787	3.0000e-005	4.0000e-005	1.3904
Total	**6.4000e-004**	**3.3000e-003**	**5.9100e-003**	**3.0000e-005**	**6.1700e-003**	**3.0000e-005**	**6.2000e-003**	**9.8000e-004**	**3.0000e-005**	**1.0100e-003**	**0.0000**	**2.6127**	**2.6127**	**4.0000e-005**	**2.2000e-004**	**2.6796**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	0.00	0.00	0.00		
Refrigerated Warehouse-No Rail	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Office Building	14.70	6.60	6.60	33.00	48.00	19.00	77	19	4
Refrigerated Warehouse-No	14.70	6.60	6.60	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	0.505022	0.051937	0.170337	0.165963	0.030143	0.007880	0.013096	0.025463	0.000664	0.000317	0.023954	0.001505	0.003719
Refrigerated Warehouse-No Rail	0.505022	0.051937	0.170337	0.165963	0.030143	0.007880	0.013096	0.025463	0.000664	0.000317	0.023954	0.001505	0.003719

5.0 Energy Detail

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

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Office Building	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
Refrigerated Warehouse-No Rail	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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Office Building	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
Refrigerated Warehouse-No Rail	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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

6.0 Area Detail

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	0.1456	0.0000	2.9000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	5.7000e-004	5.7000e-004	0.0000	0.0000	6.0000e-004
Unmitigated	0.1456	0.0000	2.9000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	5.7000e-004	5.7000e-004	0.0000	0.0000	6.0000e-004

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0220					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1235					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.0000e-005	0.0000	2.9000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	5.7000e-004	5.7000e-004	0.0000	0.0000	6.0000e-004
Total	**0.1456**	**0.0000**	**2.9000e-004**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**5.7000e-004**	**5.7000e-004**	**0.0000**	**0.0000**	**6.0000e-004**

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

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0220					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1235					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.0000e-005	0.0000	2.9000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	5.7000e-004	5.7000e-004	0.0000	0.0000	6.0000e-004
Total	**0.1456**	**0.0000**	**2.9000e-004**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**5.7000e-004**	**5.7000e-004**	**0.0000**	**0.0000**	**6.0000e-004**

7.0 Water Detail

7.1 Mitigation Measures Water

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

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	0 / 0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	0 / 0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

9.0 Operational Offroad

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

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

10.0 Stationary Equipment

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

11.0 Vegetation

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

North Central Valley Energy Center Project - PG&E Substation Onsite

San Joaquin Valley Unified APCD Air District, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	2.50	1000sqft	0.06	2,500.00	0
Refrigerated Warehouse-No Rail	29.13	1000sqft	0.67	29,133.00	0

1.2 Other Project Characteristics

Urbanization	Rural	**Wind Speed (m/s)**	2.7	**Precipitation Freq (Days)**	45
Climate Zone	2			**Operational Year**	2022
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	641.35	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use -

Construction Phase - Based on applicant provided data.

Off-road Equipment - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.

Trips and VMT - Based on applicant provided data.

On-road Fugitive Dust - Assumes 0.25 miles of non-road travel per trip for vendor trucks. All other vehicles will park at staging/substation area.

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

Grading - Based on applicant provided information.

Architectural Coating -

Vehicle Trips - 3 employees at the operations and maintenance building and water deliveries once per week

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Road Dust - CalEEMod defaults.

Consumer Products - No consumer product use.

Area Coating - CalEEMod defaults.

Landscape Equipment - No landscaping.

Energy Use - CalEEMod defaults.

Water And Wastewater - Water use for operations and maintenance building only.

Solid Waste - CalEEMod defaults for O&M building.

Construction Off-road Equipment Mitigation - In accordance with SJVAPCD Rule 8021.

Operational Off-Road Equipment - Based on applicant provided information.

Fleet Mix - Worker vehicles only for O&M building. HHD for water deliveries.

Table Name	Column Name	Default Value	New Value
tblEnergyUse	T24E	2.87	3.22
tblEnergyUse	T24E	0.32	0.36
tblEnergyUse	T24NG	15.83	15.99
tblEnergyUse	T24NG	1.13	1.14
tblFleetMix	HHD	0.03	0.00
tblFleetMix	HHD	0.03	1.00
tblFleetMix	LDA	0.50	0.50
tblFleetMix	LDA	0.50	0.00
tblFleetMix	LDT1	0.05	0.25
tblFleetMix	LDT1	0.05	0.00
tblFleetMix	LDT2	0.17	0.25

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

tblFleetMix	LDT2	0.17	0.00
tblFleetMix	LHD1	0.03	0.00
tblFleetMix	LHD1	0.03	0.00
tblFleetMix	LHD2	8.1030e-003	0.00
tblFleetMix	LHD2	8.1030e-003	0.00
tblFleetMix	MCY	0.02	0.00
tblFleetMix	MCY	0.02	0.00
tblFleetMix	MDV	0.17	0.00
tblFleetMix	MDV	0.17	0.00
tblFleetMix	MH	3.8930e-003	0.00
tblFleetMix	MH	3.8930e-003	0.00
tblFleetMix	MHD	0.01	0.00
tblFleetMix	MHD	0.01	0.00
tblFleetMix	OBUS	6.8200e-004	0.00
tblFleetMix	OBUS	6.8200e-004	0.00
tblFleetMix	SBUS	1.5390e-003	0.00
tblFleetMix	SBUS	1.5390e-003	0.00
tblFleetMix	UBUS	3.1900e-004	0.00
tblFleetMix	UBUS	3.1900e-004	0.00
tblGrading	AcresOfGrading	44.00	0.00
tblGrading	AcresOfGrading	22.00	11.00
tblLandUse	LandUseSquareFeet	29,130.00	29,133.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	UsageHours	4.00	8.00

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

tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOnRoadDust	VendorPercentPave	100.00	0.00
tblOnRoadDust	VendorPercentPave	100.00	0.00
tblOnRoadDust	VendorPercentPave	100.00	98.90
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	1.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	1.00
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblSolidWaste	SolidWasteGenerationRate	27.38	0.00
tblTripsAndVMT	VendorTripLength	6.60	0.25
tblTripsAndVMT	VendorTripLength	6.60	0.25
tblTripsAndVMT	VendorTripLength	6.60	0.25
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	5.00	20.00
tblTripsAndVMT	WorkerTripLength	16.80	0.25
tblTripsAndVMT	WorkerTripLength	16.80	0.25
tblTripsAndVMT	WorkerTripLength	16.80	0.25
tblTripsAndVMT	WorkerTripNumber	20.00	40.00
tblTripsAndVMT	WorkerTripNumber	20.00	40.00
tblTripsAndVMT	WorkerTripNumber	13.00	40.00
tblVehicleEF	HHD	0.02	1.68
tblVehicleEF	HHD	6.7280e-003	0.01
tblVehicleEF	HHD	0.00	0.08
tblVehicleEF	HHD	7.17	2.97
tblVehicleEF	HHD	0.30	0.64
tblVehicleEF	HHD	1.0920e-003	1.06

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

tblVehicleEF	HHD	1,281.56	5,862.34
tblVehicleEF	HHD	1,396.27	1,551.67
tblVehicleEF	HHD	0.01	3.28
tblVehicleEF	HHD	6.58	22.84
tblVehicleEF	HHD	3.01	3.12
tblVehicleEF	HHD	2.04	20.48
tblVehicleEF	HHD	3.3360e-003	0.02
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.03	0.01
tblVehicleEF	HHD	0.00	2.2000e-005
tblVehicleEF	HHD	3.1920e-003	0.02
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.9510e-003	8.9250e-003
tblVehicleEF	HHD	0.03	0.01
tblVehicleEF	HHD	0.00	2.0000e-005
tblVehicleEF	HHD	2.0000e-006	4.8000e-005
tblVehicleEF	HHD	5.9000e-005	1.6430e-003
tblVehicleEF	HHD	0.51	0.79
tblVehicleEF	HHD	1.0000e-006	2.5000e-005
tblVehicleEF	HHD	0.06	0.12
tblVehicleEF	HHD	3.5000e-005	1.2800e-004
tblVehicleEF	HHD	0.00	0.03
tblVehicleEF	HHD	0.01	0.06
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	0.00	5.0000e-005
tblVehicleEF	HHD	2.0000e-006	4.8000e-005
tblVehicleEF	HHD	5.9000e-005	1.6430e-003
tblVehicleEF	HHD	0.59	0.90

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

tblVehicleEF	HHD	1.0000e-006	2.5000e-005
tblVehicleEF	HHD	0.07	0.14
tblVehicleEF	HHD	3.5000e-005	1.2800e-004
tblVehicleEF	HHD	0.00	0.03
tblVehicleEF	HHD	0.03	1.59
tblVehicleEF	HHD	6.7290e-003	0.01
tblVehicleEF	HHD	0.00	0.08
tblVehicleEF	HHD	7.03	2.16
tblVehicleEF	HHD	0.30	0.64
tblVehicleEF	HHD	1.0140e-003	0.99
tblVehicleEF	HHD	1,273.14	6,210.27
tblVehicleEF	HHD	1,396.27	1,551.67
tblVehicleEF	HHD	0.01	3.28
tblVehicleEF	HHD	6.34	23.58
tblVehicleEF	HHD	2.86	2.97
tblVehicleEF	HHD	2.04	20.48
tblVehicleEF	HHD	2.9600e-003	0.02
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.03	0.01
tblVehicleEF	HHD	0.00	2.2000e-005
tblVehicleEF	HHD	2.8320e-003	0.02
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.9510e-003	8.9250e-003
tblVehicleEF	HHD	0.03	0.01
tblVehicleEF	HHD	0.00	2.0000e-005
tblVehicleEF	HHD	5.0000e-006	1.1500e-004
tblVehicleEF	HHD	7.0000e-005	1.8740e-003
tblVehicleEF	HHD	0.54	0.75

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

tblVehicleEF	HHD	2.0000e-006	5.2000e-005
tblVehicleEF	HHD	0.06	0.12
tblVehicleEF	HHD	3.6000e-005	1.2900e-004
tblVehicleEF	HHD	0.00	0.02
tblVehicleEF	HHD	0.01	0.06
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	0.00	4.9000e-005
tblVehicleEF	HHD	5.0000e-006	1.1500e-004
tblVehicleEF	HHD	7.0000e-005	1.8740e-003
tblVehicleEF	HHD	0.62	0.85
tblVehicleEF	HHD	2.0000e-006	5.2000e-005
tblVehicleEF	HHD	0.07	0.14
tblVehicleEF	HHD	3.6000e-005	1.2900e-004
tblVehicleEF	HHD	0.00	0.03
tblVehicleEF	HHD	0.02	1.82
tblVehicleEF	HHD	6.7270e-003	0.01
tblVehicleEF	HHD	0.00	0.09
tblVehicleEF	HHD	7.35	4.09
tblVehicleEF	HHD	0.30	0.64
tblVehicleEF	HHD	1.1890e-003	1.16
tblVehicleEF	HHD	1,293.19	5,381.86
tblVehicleEF	HHD	1,396.27	1,551.67
tblVehicleEF	HHD	0.01	3.28
tblVehicleEF	HHD	6.92	21.83
tblVehicleEF	HHD	3.06	3.18
tblVehicleEF	HHD	2.04	20.49
tblVehicleEF	HHD	3.8560e-003	0.03
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04

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

tblVehicleEF	HHD	0.03	0.01
tblVehicleEF	HHD	0.00	2.2000e-005
tblVehicleEF	HHD	3.6890e-003	0.02
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.9510e-003	8.9250e-003
tblVehicleEF	HHD	0.03	0.01
tblVehicleEF	HHD	0.00	2.0000e-005
tblVehicleEF	HHD	1.0000e-006	1.6000e-005
tblVehicleEF	HHD	6.4000e-005	1.6630e-003
tblVehicleEF	HHD	0.48	0.85
tblVehicleEF	HHD	0.00	1.0000e-005
tblVehicleEF	HHD	0.06	0.12
tblVehicleEF	HHD	3.7000e-005	1.4000e-004
tblVehicleEF	HHD	0.00	0.03
tblVehicleEF	HHD	0.01	0.05
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	0.00	5.2000e-005
tblVehicleEF	HHD	1.0000e-006	1.6000e-005
tblVehicleEF	HHD	6.4000e-005	1.6630e-003
tblVehicleEF	HHD	0.54	0.97
tblVehicleEF	HHD	0.00	1.0000e-005
tblVehicleEF	HHD	0.07	0.14
tblVehicleEF	HHD	3.7000e-005	1.4000e-004
tblVehicleEF	HHD	1.0000e-006	0.03
tblVehicleEF	LDA	2.4340e-003	3.9700e-003
tblVehicleEF	LDA	0.05	5.4490e-003
tblVehicleEF	LDA	0.62	0.54
tblVehicleEF	LDA	2.21	1.18
tblVehicleEF	LDA	265.67	257.67

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

tblVehicleEF	LDA	54.17	57.35
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.19	0.07
tblVehicleEF	LDA	1.4640e-003	1.7000e-003
tblVehicleEF	LDA	1.8780e-003	2.2880e-003
tblVehicleEF	LDA	1.3480e-003	1.5670e-003
tblVehicleEF	LDA	1.7270e-003	2.1040e-003
tblVehicleEF	LDA	0.07	0.05
tblVehicleEF	LDA	0.11	0.10
tblVehicleEF	LDA	0.05	0.03
tblVehicleEF	LDA	9.3930e-003	9.9860e-003
tblVehicleEF	LDA	0.03	0.03
tblVehicleEF	LDA	0.24	0.07
tblVehicleEF	LDA	2.6280e-003	2.5800e-003
tblVehicleEF	LDA	5.3600e-004	5.9300e-004
tblVehicleEF	LDA	0.07	0.05
tblVehicleEF	LDA	0.11	0.10
tblVehicleEF	LDA	0.05	0.03
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.03	0.03
tblVehicleEF	LDA	0.26	0.08
tblVehicleEF	LDA	2.8340e-003	4.5780e-003
tblVehicleEF	LDA	0.04	4.4940e-003
tblVehicleEF	LDA	0.78	0.68
tblVehicleEF	LDA	1.84	0.98
tblVehicleEF	LDA	291.82	283.49
tblVehicleEF	LDA	53.45	57.35
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	0.18	0.07

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

tblVehicleEF	LDA	1.4640e-003	1.7000e-003
tblVehicleEF	LDA	1.8780e-003	2.2880e-003
tblVehicleEF	LDA	1.3480e-003	1.5670e-003
tblVehicleEF	LDA	1.7270e-003	2.1040e-003
tblVehicleEF	LDA	0.16	0.11
tblVehicleEF	LDA	0.13	0.12
tblVehicleEF	LDA	0.10	0.07
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.03	0.03
tblVehicleEF	LDA	0.20	0.06
tblVehicleEF	LDA	2.8870e-003	2.8400e-003
tblVehicleEF	LDA	5.2900e-004	5.9000e-004
tblVehicleEF	LDA	0.16	0.11
tblVehicleEF	LDA	0.13	0.12
tblVehicleEF	LDA	0.10	0.07
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.03	0.03
tblVehicleEF	LDA	0.21	0.07
tblVehicleEF	LDA	2.2550e-003	3.7350e-003
tblVehicleEF	LDA	0.06	6.4220e-003
tblVehicleEF	LDA	0.58	0.50
tblVehicleEF	LDA	2.70	1.44
tblVehicleEF	LDA	255.88	248.09
tblVehicleEF	LDA	55.08	57.35
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.21	0.08
tblVehicleEF	LDA	1.4640e-003	1.7000e-003
tblVehicleEF	LDA	1.8780e-003	2.2880e-003
tblVehicleEF	LDA	1.3480e-003	1.5670e-003

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

tblVehicleEF	LDA	1.7270e-003	2.1040e-003
tblVehicleEF	LDA	0.02	0.01
tblVehicleEF	LDA	0.11	0.10
tblVehicleEF	LDA	0.02	0.01
tblVehicleEF	LDA	8.8310e-003	9.4030e-003
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.28	0.09
tblVehicleEF	LDA	2.5310e-003	2.4830e-003
tblVehicleEF	LDA	5.4500e-004	5.9800e-004
tblVehicleEF	LDA	0.02	0.01
tblVehicleEF	LDA	0.11	0.10
tblVehicleEF	LDA	0.02	0.01
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.30	0.09
tblVehicleEF	LDT1	7.0850e-003	0.01
tblVehicleEF	LDT1	0.09	0.02
tblVehicleEF	LDT1	1.40	1.43
tblVehicleEF	LDT1	2.52	3.59
tblVehicleEF	LDT1	316.46	322.01
tblVehicleEF	LDT1	66.26	71.41
tblVehicleEF	LDT1	0.13	0.15
tblVehicleEF	LDT1	0.31	0.21
tblVehicleEF	LDT1	2.2070e-003	2.7410e-003
tblVehicleEF	LDT1	2.8840e-003	3.7570e-003
tblVehicleEF	LDT1	2.0310e-003	2.5250e-003
tblVehicleEF	LDT1	2.6520e-003	3.4550e-003
tblVehicleEF	LDT1	0.21	0.20
tblVehicleEF	LDT1	0.28	0.35

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

tblVehicleEF	LDT1	0.14	0.13
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.12	0.22
tblVehicleEF	LDT1	0.46	0.25
tblVehicleEF	LDT1	3.1320e-003	3.2380e-003
tblVehicleEF	LDT1	6.5600e-004	7.7700e-004
tblVehicleEF	LDT1	0.21	0.20
tblVehicleEF	LDT1	0.28	0.35
tblVehicleEF	LDT1	0.14	0.13
tblVehicleEF	LDT1	0.05	0.04
tblVehicleEF	LDT1	0.12	0.22
tblVehicleEF	LDT1	0.50	0.27
tblVehicleEF	LDT1	8.1600e-003	0.01
tblVehicleEF	LDT1	0.07	0.02
tblVehicleEF	LDT1	1.72	1.74
tblVehicleEF	LDT1	2.09	2.95
tblVehicleEF	LDT1	343.81	352.74
tblVehicleEF	LDT1	65.30	71.41
tblVehicleEF	LDT1	0.12	0.14
tblVehicleEF	LDT1	0.29	0.19
tblVehicleEF	LDT1	2.2070e-003	2.7410e-003
tblVehicleEF	LDT1	2.8840e-003	3.7570e-003
tblVehicleEF	LDT1	2.0310e-003	2.5250e-003
tblVehicleEF	LDT1	2.6520e-003	3.4550e-003
tblVehicleEF	LDT1	0.51	0.48
tblVehicleEF	LDT1	0.36	0.45
tblVehicleEF	LDT1	0.30	0.27
tblVehicleEF	LDT1	0.04	0.03
tblVehicleEF	LDT1	0.12	0.21

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

tblVehicleEF	LDT1	0.38	0.21
tblVehicleEF	LDT1	3.4020e-003	3.5500e-003
tblVehicleEF	LDT1	6.4600e-004	7.6600e-004
tblVehicleEF	LDT1	0.51	0.48
tblVehicleEF	LDT1	0.36	0.45
tblVehicleEF	LDT1	0.30	0.27
tblVehicleEF	LDT1	0.05	0.05
tblVehicleEF	LDT1	0.12	0.21
tblVehicleEF	LDT1	0.41	0.23
tblVehicleEF	LDT1	6.6130e-003	0.01
tblVehicleEF	LDT1	0.10	0.02
tblVehicleEF	LDT1	1.31	1.35
tblVehicleEF	LDT1	3.09	4.41
tblVehicleEF	LDT1	306.22	310.62
tblVehicleEF	LDT1	67.43	71.41
tblVehicleEF	LDT1	0.14	0.17
tblVehicleEF	LDT1	0.34	0.23
tblVehicleEF	LDT1	2.2070e-003	2.7410e-003
tblVehicleEF	LDT1	2.8840e-003	3.7570e-003
tblVehicleEF	LDT1	2.0310e-003	2.5250e-003
tblVehicleEF	LDT1	2.6520e-003	3.4550e-003
tblVehicleEF	LDT1	0.07	0.06
tblVehicleEF	LDT1	0.28	0.36
tblVehicleEF	LDT1	0.05	0.05
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.15	0.26
tblVehicleEF	LDT1	0.54	0.30
tblVehicleEF	LDT1	3.0300e-003	3.1230e-003
tblVehicleEF	LDT1	6.6700e-004	7.9200e-004

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

tblVehicleEF	LDT1	0.07	0.06
tblVehicleEF	LDT1	0.28	0.36
tblVehicleEF	LDT1	0.05	0.05
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.15	0.26
tblVehicleEF	LDT1	0.59	0.33
tblVehicleEF	LDT2	4.5470e-003	6.3650e-003
tblVehicleEF	LDT2	0.08	8.5720e-003
tblVehicleEF	LDT2	0.98	0.79
tblVehicleEF	LDT2	2.89	1.76
tblVehicleEF	LDT2	341.69	364.25
tblVehicleEF	LDT2	71.84	80.67
tblVehicleEF	LDT2	0.10	0.09
tblVehicleEF	LDT2	0.33	0.14
tblVehicleEF	LDT2	1.5510e-003	1.7460e-003
tblVehicleEF	LDT2	1.9710e-003	2.4030e-003
tblVehicleEF	LDT2	1.4270e-003	1.6050e-003
tblVehicleEF	LDT2	1.8130e-003	2.2100e-003
tblVehicleEF	LDT2	0.12	0.07
tblVehicleEF	LDT2	0.17	0.14
tblVehicleEF	LDT2	0.09	0.06
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.08
tblVehicleEF	LDT2	0.37	0.12
tblVehicleEF	LDT2	3.3810e-003	3.6490e-003
tblVehicleEF	LDT2	7.1100e-004	8.3700e-004
tblVehicleEF	LDT2	0.12	0.07
tblVehicleEF	LDT2	0.17	0.14
tblVehicleEF	LDT2	0.09	0.06

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

tblVehicleEF	LDT2	0.03	0.02
tblVehicleEF	LDT2	0.07	0.08
tblVehicleEF	LDT2	0.41	0.13
tblVehicleEF	LDT2	5.2640e-003	7.3160e-003
tblVehicleEF	LDT2	0.07	7.0670e-003
tblVehicleEF	LDT2	1.22	0.98
tblVehicleEF	LDT2	2.39	1.46
tblVehicleEF	LDT2	368.56	399.84
tblVehicleEF	LDT2	70.84	80.67
tblVehicleEF	LDT2	0.09	0.08
tblVehicleEF	LDT2	0.31	0.13
tblVehicleEF	LDT2	1.5510e-003	1.7460e-003
tblVehicleEF	LDT2	1.9710e-003	2.4030e-003
tblVehicleEF	LDT2	1.4270e-003	1.6050e-003
tblVehicleEF	LDT2	1.8130e-003	2.2100e-003
tblVehicleEF	LDT2	0.28	0.18
tblVehicleEF	LDT2	0.20	0.17
tblVehicleEF	LDT2	0.19	0.12
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.08
tblVehicleEF	LDT2	0.31	0.10
tblVehicleEF	LDT2	3.6460e-003	4.0070e-003
tblVehicleEF	LDT2	7.0100e-004	8.3100e-004
tblVehicleEF	LDT2	0.28	0.18
tblVehicleEF	LDT2	0.20	0.17
tblVehicleEF	LDT2	0.19	0.12
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.07	0.08
tblVehicleEF	LDT2	0.34	0.10

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

tblVehicleEF	LDT2	4.2260e-003	5.9980e-003
tblVehicleEF	LDT2	0.09	0.01
tblVehicleEF	LDT2	0.91	0.73
tblVehicleEF	LDT2	3.53	2.15
tblVehicleEF	LDT2	331.61	351.04
tblVehicleEF	LDT2	73.08	80.67
tblVehicleEF	LDT2	0.11	0.10
tblVehicleEF	LDT2	0.37	0.16
tblVehicleEF	LDT2	1.5510e-003	1.7460e-003
tblVehicleEF	LDT2	1.9710e-003	2.4030e-003
tblVehicleEF	LDT2	1.4270e-003	1.6050e-003
tblVehicleEF	LDT2	1.8130e-003	2.2100e-003
tblVehicleEF	LDT2	0.04	0.02
tblVehicleEF	LDT2	0.17	0.14
tblVehicleEF	LDT2	0.03	0.02
tblVehicleEF	LDT2	0.02	0.01
tblVehicleEF	LDT2	0.08	0.09
tblVehicleEF	LDT2	0.44	0.14
tblVehicleEF	LDT2	3.2810e-003	3.5160e-003
tblVehicleEF	LDT2	7.2300e-004	8.4300e-004
tblVehicleEF	LDT2	0.04	0.02
tblVehicleEF	LDT2	0.17	0.14
tblVehicleEF	LDT2	0.03	0.02
tblVehicleEF	LDT2	0.03	0.02
tblVehicleEF	LDT2	0.08	0.09
tblVehicleEF	LDT2	0.48	0.15
tblVehicleEF	LHD1	4.3500e-003	4.7510e-003
tblVehicleEF	LHD1	0.01	0.02
tblVehicleEF	LHD1	0.01	0.02

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

tblVehicleEF	LHD1	0.16	0.14
tblVehicleEF	LHD1	1.08	1.30
tblVehicleEF	LHD1	0.92	2.33
tblVehicleEF	LHD1	9.60	9.46
tblVehicleEF	LHD1	775.09	688.88
tblVehicleEF	LHD1	9.69	27.50
tblVehicleEF	LHD1	0.09	0.10
tblVehicleEF	LHD1	1.61	2.24
tblVehicleEF	LHD1	0.29	0.91
tblVehicleEF	LHD1	1.0880e-003	1.1040e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	2.2700e-004	8.2800e-004
tblVehicleEF	LHD1	1.0410e-003	1.0570e-003
tblVehicleEF	LHD1	2.5420e-003	2.5780e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	2.0900e-004	7.6100e-004
tblVehicleEF	LHD1	2.9830e-003	3.4300e-003
tblVehicleEF	LHD1	0.08	0.10
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.2590e-003	1.4600e-003
tblVehicleEF	LHD1	0.13	0.16
tblVehicleEF	LHD1	0.22	0.30
tblVehicleEF	LHD1	0.07	0.24
tblVehicleEF	LHD1	9.3000e-005	9.4000e-005
tblVehicleEF	LHD1	7.5330e-003	6.7440e-003
tblVehicleEF	LHD1	9.6000e-005	3.1900e-004
tblVehicleEF	LHD1	2.9830e-003	3.4300e-003
tblVehicleEF	LHD1	0.08	0.10

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

tblVehicleEF	LHD1	0.03	0.02
tblVehicleEF	LHD1	1.2590e-003	1.4600e-003
tblVehicleEF	LHD1	0.16	0.19
tblVehicleEF	LHD1	0.22	0.30
tblVehicleEF	LHD1	0.08	0.26
tblVehicleEF	LHD1	4.3620e-003	4.7510e-003
tblVehicleEF	LHD1	0.01	0.02
tblVehicleEF	LHD1	0.01	0.02
tblVehicleEF	LHD1	0.16	0.14
tblVehicleEF	LHD1	1.11	1.32
tblVehicleEF	LHD1	0.85	2.16
tblVehicleEF	LHD1	9.60	9.46
tblVehicleEF	LHD1	775.13	688.88
tblVehicleEF	LHD1	9.58	27.50
tblVehicleEF	LHD1	0.09	0.10
tblVehicleEF	LHD1	1.52	2.13
tblVehicleEF	LHD1	0.27	0.86
tblVehicleEF	LHD1	1.0880e-003	1.1040e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	2.2700e-004	8.2800e-004
tblVehicleEF	LHD1	1.0410e-003	1.0570e-003
tblVehicleEF	LHD1	2.5420e-003	2.5780e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	2.0900e-004	7.6100e-004
tblVehicleEF	LHD1	7.1460e-003	8.2290e-003
tblVehicleEF	LHD1	0.10	0.12
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	2.6670e-003	3.0590e-003

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

tblVehicleEF	LHD1	0.14	0.16
tblVehicleEF	LHD1	0.22	0.30
tblVehicleEF	LHD1	0.07	0.22
tblVehicleEF	LHD1	9.3000e-005	9.4000e-005
tblVehicleEF	LHD1	7.5340e-003	6.7440e-003
tblVehicleEF	LHD1	9.5000e-005	3.1600e-004
tblVehicleEF	LHD1	7.1460e-003	8.2290e-003
tblVehicleEF	LHD1	0.10	0.12
tblVehicleEF	LHD1	0.03	0.02
tblVehicleEF	LHD1	2.6670e-003	3.0590e-003
tblVehicleEF	LHD1	0.17	0.20
tblVehicleEF	LHD1	0.22	0.30
tblVehicleEF	LHD1	0.07	0.24
tblVehicleEF	LHD1	4.3370e-003	4.7510e-003
tblVehicleEF	LHD1	0.01	0.02
tblVehicleEF	LHD1	0.01	0.02
tblVehicleEF	LHD1	0.16	0.14
tblVehicleEF	LHD1	1.06	1.27
tblVehicleEF	LHD1	1.00	2.54
tblVehicleEF	LHD1	9.60	9.46
tblVehicleEF	LHD1	775.05	688.88
tblVehicleEF	LHD1	9.83	27.50
tblVehicleEF	LHD1	0.09	0.10
tblVehicleEF	LHD1	1.64	2.29
tblVehicleEF	LHD1	0.31	0.97
tblVehicleEF	LHD1	1.0880e-003	1.1040e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	2.2700e-004	8.2800e-004

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

tblVehicleEF	LHD1	1.0410e-003	1.0570e-003
tblVehicleEF	LHD1	2.5420e-003	2.5780e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	2.0900e-004	7.6100e-004
tblVehicleEF	LHD1	9.7300e-004	1.1420e-003
tblVehicleEF	LHD1	0.08	0.10
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	5.2600e-004	6.1800e-004
tblVehicleEF	LHD1	0.13	0.16
tblVehicleEF	LHD1	0.24	0.33
tblVehicleEF	LHD1	0.08	0.25
tblVehicleEF	LHD1	9.3000e-005	9.4000e-005
tblVehicleEF	LHD1	7.5330e-003	6.7430e-003
tblVehicleEF	LHD1	9.7000e-005	3.2300e-004
tblVehicleEF	LHD1	9.7300e-004	1.1420e-003
tblVehicleEF	LHD1	0.08	0.10
tblVehicleEF	LHD1	0.03	0.02
tblVehicleEF	LHD1	5.2600e-004	6.1800e-004
tblVehicleEF	LHD1	0.16	0.19
tblVehicleEF	LHD1	0.24	0.33
tblVehicleEF	LHD1	0.08	0.28
tblVehicleEF	LHD2	3.1110e-003	3.4570e-003
tblVehicleEF	LHD2	8.3200e-003	9.7920e-003
tblVehicleEF	LHD2	8.8640e-003	8.1820e-003
tblVehicleEF	LHD2	0.13	0.12
tblVehicleEF	LHD2	0.79	0.76
tblVehicleEF	LHD2	0.58	1.19
tblVehicleEF	LHD2	14.88	14.55
tblVehicleEF	LHD2	791.60	722.33

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

tblVehicleEF	LHD2	7.35	23.26
tblVehicleEF	LHD2	0.12	0.12
tblVehicleEF	LHD2	1.56	1.55
tblVehicleEF	LHD2	0.19	0.52
tblVehicleEF	LHD2	1.4590e-003	1.3400e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.1500e-004	3.8200e-004
tblVehicleEF	LHD2	1.3960e-003	1.2820e-003
tblVehicleEF	LHD2	2.7100e-003	2.7010e-003
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.0600e-004	3.5100e-004
tblVehicleEF	LHD2	1.5940e-003	1.4160e-003
tblVehicleEF	LHD2	0.05	0.04
tblVehicleEF	LHD2	0.02	0.01
tblVehicleEF	LHD2	6.9700e-004	6.4400e-004
tblVehicleEF	LHD2	0.13	0.13
tblVehicleEF	LHD2	0.11	0.09
tblVehicleEF	LHD2	0.04	0.11
tblVehicleEF	LHD2	7.6340e-003	7.0210e-003
tblVehicleEF	LHD2	7.3000e-005	2.5400e-004
tblVehicleEF	LHD2	1.5940e-003	1.4160e-003
tblVehicleEF	LHD2	0.05	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	6.9700e-004	6.4400e-004
tblVehicleEF	LHD2	0.16	0.15
tblVehicleEF	LHD2	0.11	0.09
tblVehicleEF	LHD2	0.05	0.12
tblVehicleEF	LHD2	3.1190e-003	3.4570e-003

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

tblVehicleEF	LHD2	8.4030e-003	9.9340e-003
tblVehicleEF	LHD2	8.3990e-003	7.7440e-003
tblVehicleEF	LHD2	0.13	0.12
tblVehicleEF	LHD2	0.80	0.76
tblVehicleEF	LHD2	0.54	1.11
tblVehicleEF	LHD2	14.88	14.55
tblVehicleEF	LHD2	791.61	722.33
tblVehicleEF	LHD2	7.27	23.26
tblVehicleEF	LHD2	0.12	0.12
tblVehicleEF	LHD2	1.48	1.47
tblVehicleEF	LHD2	0.18	0.49
tblVehicleEF	LHD2	1.4590e-003	1.3400e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.1500e-004	3.8200e-004
tblVehicleEF	LHD2	1.3960e-003	1.2820e-003
tblVehicleEF	LHD2	2.7100e-003	2.7010e-003
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.0600e-004	3.5100e-004
tblVehicleEF	LHD2	3.8030e-003	3.3790e-003
tblVehicleEF	LHD2	0.05	0.05
tblVehicleEF	LHD2	0.02	0.01
tblVehicleEF	LHD2	1.4640e-003	1.3320e-003
tblVehicleEF	LHD2	0.13	0.13
tblVehicleEF	LHD2	0.11	0.09
tblVehicleEF	LHD2	0.04	0.10
tblVehicleEF	LHD2	7.6340e-003	7.0210e-003
tblVehicleEF	LHD2	7.2000e-005	2.5300e-004
tblVehicleEF	LHD2	3.8030e-003	3.3790e-003

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

tblVehicleEF	LHD2	0.05	0.05
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.4640e-003	1.3320e-003
tblVehicleEF	LHD2	0.16	0.15
tblVehicleEF	LHD2	0.11	0.09
tblVehicleEF	LHD2	0.05	0.11
tblVehicleEF	LHD2	3.1010e-003	3.4570e-003
tblVehicleEF	LHD2	8.2320e-003	9.6460e-003
tblVehicleEF	LHD2	9.3760e-003	8.6690e-003
tblVehicleEF	LHD2	0.13	0.12
tblVehicleEF	LHD2	0.79	0.75
tblVehicleEF	LHD2	0.63	1.29
tblVehicleEF	LHD2	14.88	14.55
tblVehicleEF	LHD2	791.59	722.33
tblVehicleEF	LHD2	7.43	23.26
tblVehicleEF	LHD2	0.12	0.12
tblVehicleEF	LHD2	1.59	1.58
tblVehicleEF	LHD2	0.20	0.55
tblVehicleEF	LHD2	1.4590e-003	1.3400e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.1500e-004	3.8200e-004
tblVehicleEF	LHD2	1.3960e-003	1.2820e-003
tblVehicleEF	LHD2	2.7100e-003	2.7010e-003
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.0600e-004	3.5100e-004
tblVehicleEF	LHD2	5.3400e-004	4.8500e-004
tblVehicleEF	LHD2	0.05	0.04
tblVehicleEF	LHD2	0.02	0.01

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

tblVehicleEF	LHD2	2.9400e-004	2.7400e-004
tblVehicleEF	LHD2	0.13	0.13
tblVehicleEF	LHD2	0.12	0.10
tblVehicleEF	LHD2	0.05	0.12
tblVehicleEF	LHD2	7.6330e-003	7.0210e-003
tblVehicleEF	LHD2	7.4000e-005	2.5600e-004
tblVehicleEF	LHD2	5.3400e-004	4.8500e-004
tblVehicleEF	LHD2	0.05	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	2.9400e-004	2.7400e-004
tblVehicleEF	LHD2	0.15	0.15
tblVehicleEF	LHD2	0.12	0.10
tblVehicleEF	LHD2	0.05	0.13
tblVehicleEF	MCY	0.34	0.44
tblVehicleEF	MCY	0.26	0.16
tblVehicleEF	MCY	21.74	21.76
tblVehicleEF	MCY	8.86	10.02
tblVehicleEF	MCY	216.07	172.60
tblVehicleEF	MCY	62.52	47.34
tblVehicleEF	MCY	1.18	1.18
tblVehicleEF	MCY	0.27	0.32
tblVehicleEF	MCY	1.9030e-003	1.9390e-003
tblVehicleEF	MCY	3.1070e-003	3.7710e-003
tblVehicleEF	MCY	1.7830e-003	1.8170e-003
tblVehicleEF	MCY	2.9320e-003	3.5620e-003
tblVehicleEF	MCY	1.57	1.56
tblVehicleEF	MCY	0.95	0.96
tblVehicleEF	MCY	0.83	0.83
tblVehicleEF	MCY	2.37	2.38

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

tblVehicleEF	MCY	0.55	0.59
tblVehicleEF	MCY	1.95	2.22
tblVehicleEF	MCY	2.1380e-003	2.1500e-003
tblVehicleEF	MCY	6.1900e-004	7.0300e-004
tblVehicleEF	MCY	1.57	1.56
tblVehicleEF	MCY	0.95	0.96
tblVehicleEF	MCY	0.83	0.83
tblVehicleEF	MCY	2.89	2.91
tblVehicleEF	MCY	0.55	0.59
tblVehicleEF	MCY	2.12	2.41
tblVehicleEF	MCY	0.34	0.43
tblVehicleEF	MCY	0.22	0.14
tblVehicleEF	MCY	22.04	22.03
tblVehicleEF	MCY	8.02	9.12
tblVehicleEF	MCY	216.33	172.60
tblVehicleEF	MCY	60.19	47.34
tblVehicleEF	MCY	1.02	1.02
tblVehicleEF	MCY	0.25	0.29
tblVehicleEF	MCY	1.9030e-003	1.9390e-003
tblVehicleEF	MCY	3.1070e-003	3.7710e-003
tblVehicleEF	MCY	1.7830e-003	1.8170e-003
tblVehicleEF	MCY	2.9320e-003	3.5620e-003
tblVehicleEF	MCY	4.00	4.02
tblVehicleEF	MCY	1.46	1.45
tblVehicleEF	MCY	2.14	2.13
tblVehicleEF	MCY	2.30	2.31
tblVehicleEF	MCY	0.54	0.58
tblVehicleEF	MCY	1.65	1.88
tblVehicleEF	MCY	2.1410e-003	2.1520e-003

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

tblVehicleEF	MCY	5.9600e-004	6.7800e-004
tblVehicleEF	MCY	4.00	4.02
tblVehicleEF	MCY	1.46	1.45
tblVehicleEF	MCY	2.14	2.13
tblVehicleEF	MCY	2.82	2.83
tblVehicleEF	MCY	0.54	0.58
tblVehicleEF	MCY	1.80	2.05
tblVehicleEF	MCY	0.36	0.46
tblVehicleEF	MCY	0.30	0.19
tblVehicleEF	MCY	23.44	23.47
tblVehicleEF	MCY	10.30	11.59
tblVehicleEF	MCY	219.21	172.60
tblVehicleEF	MCY	66.14	47.34
tblVehicleEF	MCY	1.28	1.29
tblVehicleEF	MCY	0.29	0.34
tblVehicleEF	MCY	1.9030e-003	1.9390e-003
tblVehicleEF	MCY	3.1070e-003	3.7710e-003
tblVehicleEF	MCY	1.7830e-003	1.8170e-003
tblVehicleEF	MCY	2.9320e-003	3.5620e-003
tblVehicleEF	MCY	0.42	0.42
tblVehicleEF	MCY	0.98	1.00
tblVehicleEF	MCY	0.22	0.22
tblVehicleEF	MCY	2.49	2.50
tblVehicleEF	MCY	0.64	0.69
tblVehicleEF	MCY	2.35	2.66
tblVehicleEF	MCY	2.1690e-003	2.1810e-003
tblVehicleEF	MCY	6.5400e-004	7.4200e-004
tblVehicleEF	MCY	0.42	0.42
tblVehicleEF	MCY	0.98	1.00

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

tblVehicleEF	MCY	0.22	0.22
tblVehicleEF	MCY	3.04	3.05
tblVehicleEF	MCY	0.64	0.69
tblVehicleEF	MCY	2.56	2.89
tblVehicleEF	MDV	5.5130e-003	0.01
tblVehicleEF	MDV	0.10	0.02
tblVehicleEF	MDV	1.09	1.32
tblVehicleEF	MDV	3.47	3.47
tblVehicleEF	MDV	428.75	508.20
tblVehicleEF	MDV	89.75	111.19
tblVehicleEF	MDV	0.12	0.17
tblVehicleEF	MDV	0.41	0.32
tblVehicleEF	MDV	1.5840e-003	1.7620e-003
tblVehicleEF	MDV	1.9970e-003	2.4110e-003
tblVehicleEF	MDV	1.4620e-003	1.6250e-003
tblVehicleEF	MDV	1.8360e-003	2.2170e-003
tblVehicleEF	MDV	0.13	0.11
tblVehicleEF	MDV	0.19	0.22
tblVehicleEF	MDV	0.11	0.09
tblVehicleEF	MDV	0.02	0.03
tblVehicleEF	MDV	0.08	0.13
tblVehicleEF	MDV	0.48	0.27
tblVehicleEF	MDV	4.2390e-003	5.0910e-003
tblVehicleEF	MDV	8.8800e-004	1.1730e-003
tblVehicleEF	MDV	0.13	0.11
tblVehicleEF	MDV	0.19	0.22
tblVehicleEF	MDV	0.11	0.09
tblVehicleEF	MDV	0.03	0.05
tblVehicleEF	MDV	0.08	0.13

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

tblVehicleEF	MDV	0.53	0.29
tblVehicleEF	MDV	6.4030e-003	0.01
tblVehicleEF	MDV	0.08	0.02
tblVehicleEF	MDV	1.35	1.64
tblVehicleEF	MDV	2.86	2.87
tblVehicleEF	MDV	457.46	556.54
tblVehicleEF	MDV	88.52	111.19
tblVehicleEF	MDV	0.11	0.16
tblVehicleEF	MDV	0.39	0.30
tblVehicleEF	MDV	1.5840e-003	1.7620e-003
tblVehicleEF	MDV	1.9970e-003	2.4110e-003
tblVehicleEF	MDV	1.4620e-003	1.6250e-003
tblVehicleEF	MDV	1.8360e-003	2.2170e-003
tblVehicleEF	MDV	0.32	0.27
tblVehicleEF	MDV	0.22	0.26
tblVehicleEF	MDV	0.23	0.19
tblVehicleEF	MDV	0.03	0.04
tblVehicleEF	MDV	0.08	0.13
tblVehicleEF	MDV	0.40	0.22
tblVehicleEF	MDV	4.5230e-003	5.5790e-003
tblVehicleEF	MDV	8.7600e-004	1.1620e-003
tblVehicleEF	MDV	0.32	0.27
tblVehicleEF	MDV	0.22	0.26
tblVehicleEF	MDV	0.23	0.19
tblVehicleEF	MDV	0.04	0.05
tblVehicleEF	MDV	0.08	0.13
tblVehicleEF	MDV	0.44	0.24
tblVehicleEF	MDV	5.1300e-003	0.01
tblVehicleEF	MDV	0.11	0.02

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

tblVehicleEF	MDV	1.01	1.23
tblVehicleEF	MDV	4.25	4.23
tblVehicleEF	MDV	417.95	490.19
tblVehicleEF	MDV	91.28	111.19
tblVehicleEF	MDV	0.13	0.19
tblVehicleEF	MDV	0.46	0.35
tblVehicleEF	MDV	1.5840e-003	1.7620e-003
tblVehicleEF	MDV	1.9970e-003	2.4110e-003
tblVehicleEF	MDV	1.4620e-003	1.6250e-003
tblVehicleEF	MDV	1.8360e-003	2.2170e-003
tblVehicleEF	MDV	0.04	0.04
tblVehicleEF	MDV	0.19	0.22
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.02	0.03
tblVehicleEF	MDV	0.09	0.16
tblVehicleEF	MDV	0.57	0.32
tblVehicleEF	MDV	4.1320e-003	4.9100e-003
tblVehicleEF	MDV	9.0300e-004	1.1870e-003
tblVehicleEF	MDV	0.04	0.04
tblVehicleEF	MDV	0.19	0.22
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.03	0.04
tblVehicleEF	MDV	0.09	0.16
tblVehicleEF	MDV	0.62	0.35
tblVehicleEF	MH	0.01	0.04
tblVehicleEF	MH	0.02	0.03
tblVehicleEF	MH	1.56	2.96
tblVehicleEF	MH	2.14	6.32
tblVehicleEF	MH	1,571.36	1,226.13

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

tblVehicleEF	MH	18.28	57.44
tblVehicleEF	MH	2.01	1.89
tblVehicleEF	MH	0.23	0.90
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.04	0.04
tblVehicleEF	MH	2.6600e-004	1.1840e-003
tblVehicleEF	MH	3.3060e-003	3.2450e-003
tblVehicleEF	MH	0.04	0.04
tblVehicleEF	MH	2.4400e-004	1.0890e-003
tblVehicleEF	MH	1.22	1.49
tblVehicleEF	MH	0.07	0.09
tblVehicleEF	MH	0.33	0.40
tblVehicleEF	MH	0.10	0.13
tblVehicleEF	MH	0.02	0.03
tblVehicleEF	MH	0.10	0.36
tblVehicleEF	MH	0.02	0.01
tblVehicleEF	MH	1.8100e-004	6.8500e-004
tblVehicleEF	MH	1.22	1.49
tblVehicleEF	MH	0.07	0.09
tblVehicleEF	MH	0.33	0.40
tblVehicleEF	MH	0.13	0.18
tblVehicleEF	MH	0.02	0.03
tblVehicleEF	MH	0.11	0.40
tblVehicleEF	MH	0.01	0.04
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	1.61	3.08
tblVehicleEF	MH	1.94	5.69
tblVehicleEF	MH	1,571.45	1,226.13
tblVehicleEF	MH	17.94	57.44

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

tblVehicleEF	MH	1.88	1.75
tblVehicleEF	MH	0.22	0.85
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.04	0.04
tblVehicleEF	MH	2.6600e-004	1.1840e-003
tblVehicleEF	MH	3.3060e-003	3.2450e-003
tblVehicleEF	MH	0.04	0.04
tblVehicleEF	MH	2.4400e-004	1.0890e-003
tblVehicleEF	MH	2.94	3.63
tblVehicleEF	MH	0.09	0.11
tblVehicleEF	MH	0.69	0.84
tblVehicleEF	MH	0.10	0.14
tblVehicleEF	MH	0.02	0.03
tblVehicleEF	MH	0.09	0.34
tblVehicleEF	MH	0.02	0.01
tblVehicleEF	MH	1.7800e-004	6.7400e-004
tblVehicleEF	MH	2.94	3.63
tblVehicleEF	MH	0.09	0.11
tblVehicleEF	MH	0.69	0.84
tblVehicleEF	MH	0.13	0.19
tblVehicleEF	MH	0.02	0.03
tblVehicleEF	MH	0.10	0.37
tblVehicleEF	MH	0.01	0.04
tblVehicleEF	MH	0.02	0.03
tblVehicleEF	MH	1.50	2.84
tblVehicleEF	MH	2.37	7.07
tblVehicleEF	MH	1,571.26	1,226.13
tblVehicleEF	MH	18.67	57.44
tblVehicleEF	MH	2.06	1.95

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

tblVehicleEF	MH	0.25	0.96
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.04	0.04
tblVehicleEF	MH	2.6600e-004	1.1840e-003
tblVehicleEF	MH	3.3060e-003	3.2450e-003
tblVehicleEF	MH	0.04	0.04
tblVehicleEF	MH	2.4400e-004	1.0890e-003
tblVehicleEF	MH	0.39	0.48
tblVehicleEF	MH	0.08	0.10
tblVehicleEF	MH	0.16	0.20
tblVehicleEF	MH	0.10	0.13
tblVehicleEF	MH	0.02	0.03
tblVehicleEF	MH	0.10	0.39
tblVehicleEF	MH	0.02	0.01
tblVehicleEF	MH	1.8500e-004	6.9700e-004
tblVehicleEF	MH	0.39	0.48
tblVehicleEF	MH	0.08	0.10
tblVehicleEF	MH	0.16	0.20
tblVehicleEF	MH	0.13	0.18
tblVehicleEF	MH	0.02	0.03
tblVehicleEF	MH	0.11	0.43
tblVehicleEF	MHD	2.7750e-003	0.02
tblVehicleEF	MHD	6.1670e-003	5.7720e-003
tblVehicleEF	MHD	7.3410e-003	0.06
tblVehicleEF	MHD	0.36	0.37
tblVehicleEF	MHD	0.50	0.42
tblVehicleEF	MHD	0.90	4.59
tblVehicleEF	MHD	83.25	186.77
tblVehicleEF	MHD	1,131.89	1,206.62

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

tblVehicleEF	MHD	7.14	38.99
tblVehicleEF	MHD	0.63	0.88
tblVehicleEF	MHD	2.28	1.78
tblVehicleEF	MHD	1.46	14.28
tblVehicleEF	MHD	1.5550e-003	6.7690e-003
tblVehicleEF	MHD	0.04	0.01
tblVehicleEF	MHD	1.0000e-004	6.7700e-004
tblVehicleEF	MHD	1.4880e-003	6.4760e-003
tblVehicleEF	MHD	0.04	0.01
tblVehicleEF	MHD	9.2000e-005	6.2200e-004
tblVehicleEF	MHD	6.7700e-004	1.2750e-003
tblVehicleEF	MHD	0.02	0.04
tblVehicleEF	MHD	0.02	0.04
tblVehicleEF	MHD	2.8200e-004	5.3300e-004
tblVehicleEF	MHD	0.11	0.08
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.04	0.27
tblVehicleEF	MHD	7.8900e-004	1.7900e-003
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	7.1000e-005	4.7000e-004
tblVehicleEF	MHD	6.7700e-004	1.2750e-003
tblVehicleEF	MHD	0.02	0.04
tblVehicleEF	MHD	0.02	0.05
tblVehicleEF	MHD	2.8200e-004	5.3300e-004
tblVehicleEF	MHD	0.12	0.09
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.04	0.30
tblVehicleEF	MHD	2.6170e-003	0.02
tblVehicleEF	MHD	6.2190e-003	5.8610e-003

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

tblVehicleEF	MHD	6.9600e-003	0.05
tblVehicleEF	MHD	0.30	0.26
tblVehicleEF	MHD	0.50	0.43
tblVehicleEF	MHD	0.83	4.25
tblVehicleEF	MHD	84.16	197.95
tblVehicleEF	MHD	1,131.90	1,206.62
tblVehicleEF	MHD	7.03	38.99
tblVehicleEF	MHD	0.63	0.91
tblVehicleEF	MHD	2.16	1.69
tblVehicleEF	MHD	1.45	14.24
tblVehicleEF	MHD	1.3140e-003	5.7070e-003
tblVehicleEF	MHD	0.04	0.01
tblVehicleEF	MHD	1.0000e-004	6.7700e-004
tblVehicleEF	MHD	1.2570e-003	5.4600e-003
tblVehicleEF	MHD	0.04	0.01
tblVehicleEF	MHD	9.2000e-005	6.2200e-004
tblVehicleEF	MHD	1.6530e-003	3.1270e-003
tblVehicleEF	MHD	0.02	0.05
tblVehicleEF	MHD	0.02	0.04
tblVehicleEF	MHD	6.2700e-004	1.1790e-003
tblVehicleEF	MHD	0.11	0.08
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.04	0.26
tblVehicleEF	MHD	7.9700e-004	1.8960e-003
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	7.0000e-005	4.6400e-004
tblVehicleEF	MHD	1.6530e-003	3.1270e-003
tblVehicleEF	MHD	0.02	0.05
tblVehicleEF	MHD	0.02	0.05

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

tblVehicleEF	MHD	6.2700e-004	1.1790e-003
tblVehicleEF	MHD	0.13	0.09
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.04	0.28
tblVehicleEF	MHD	2.9310e-003	0.02
tblVehicleEF	MHD	6.1110e-003	5.6780e-003
tblVehicleEF	MHD	7.7760e-003	0.06
tblVehicleEF	MHD	0.42	0.49
tblVehicleEF	MHD	0.49	0.42
tblVehicleEF	MHD	0.98	5.00
tblVehicleEF	MHD	82.10	171.56
tblVehicleEF	MHD	1,131.87	1,206.62
tblVehicleEF	MHD	7.28	38.99
tblVehicleEF	MHD	0.63	0.84
tblVehicleEF	MHD	2.32	1.82
tblVehicleEF	MHD	1.46	14.32
tblVehicleEF	MHD	1.8870e-003	8.2370e-003
tblVehicleEF	MHD	0.04	0.01
tblVehicleEF	MHD	1.0000e-004	6.7700e-004
tblVehicleEF	MHD	1.8060e-003	7.8810e-003
tblVehicleEF	MHD	0.04	0.01
tblVehicleEF	MHD	9.2000e-005	6.2200e-004
tblVehicleEF	MHD	2.1000e-004	4.0000e-004
tblVehicleEF	MHD	0.02	0.04
tblVehicleEF	MHD	0.02	0.04
tblVehicleEF	MHD	1.1000e-004	2.0900e-004
tblVehicleEF	MHD	0.11	0.08
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.04	0.29

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

tblVehicleEF	MHD	7.7800e-004	1.6460e-003
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	7.2000e-005	4.7700e-004
tblVehicleEF	MHD	2.1000e-004	4.0000e-004
tblVehicleEF	MHD	0.02	0.04
tblVehicleEF	MHD	0.02	0.05
tblVehicleEF	MHD	1.1000e-004	2.0900e-004
tblVehicleEF	MHD	0.12	0.09
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.05	0.32
tblVehicleEF	OBUS	8.5240e-003	0.01
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.58	0.29
tblVehicleEF	OBUS	1.29	0.82
tblVehicleEF	OBUS	2.74	6.58
tblVehicleEF	OBUS	91.20	129.12
tblVehicleEF	OBUS	1,522.88	1,328.61
tblVehicleEF	OBUS	20.28	67.29
tblVehicleEF	OBUS	0.44	0.61
tblVehicleEF	OBUS	1.70	1.78
tblVehicleEF	OBUS	0.75	3.06
tblVehicleEF	OBUS	7.9400e-004	1.3600e-004
tblVehicleEF	OBUS	0.02	7.5500e-003
tblVehicleEF	OBUS	2.1500e-004	8.7700e-004
tblVehicleEF	OBUS	7.5900e-004	1.3000e-004
tblVehicleEF	OBUS	0.02	7.2040e-003
tblVehicleEF	OBUS	1.9800e-004	8.0700e-004
tblVehicleEF	OBUS	3.0510e-003	2.4510e-003

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

tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.06	0.04
tblVehicleEF	OBUS	9.7900e-004	8.0600e-004
tblVehicleEF	OBUS	0.10	0.08
tblVehicleEF	OBUS	0.09	0.04
tblVehicleEF	OBUS	0.13	0.40
tblVehicleEF	OBUS	8.6800e-004	1.2440e-003
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	2.0100e-004	7.8800e-004
tblVehicleEF	OBUS	3.0510e-003	2.4510e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.07	0.06
tblVehicleEF	OBUS	9.7900e-004	8.0600e-004
tblVehicleEF	OBUS	0.12	0.10
tblVehicleEF	OBUS	0.09	0.04
tblVehicleEF	OBUS	0.14	0.44
tblVehicleEF	OBUS	8.5870e-003	0.01
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.57	0.27
tblVehicleEF	OBUS	1.33	0.84
tblVehicleEF	OBUS	2.48	5.97
tblVehicleEF	OBUS	91.05	135.81
tblVehicleEF	OBUS	1,522.94	1,328.61
tblVehicleEF	OBUS	19.85	67.29
tblVehicleEF	OBUS	0.43	0.63
tblVehicleEF	OBUS	1.59	1.68
tblVehicleEF	OBUS	0.74	3.00
tblVehicleEF	OBUS	6.7400e-004	1.1500e-004

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

tblVehicleEF	OBUS	0.02	7.5500e-003
tblVehicleEF	OBUS	2.1500e-004	8.7700e-004
tblVehicleEF	OBUS	6.4500e-004	1.1000e-004
tblVehicleEF	OBUS	0.02	7.2040e-003
tblVehicleEF	OBUS	1.9800e-004	8.0700e-004
tblVehicleEF	OBUS	7.2830e-003	5.8650e-003
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.06	0.04
tblVehicleEF	OBUS	2.0130e-003	1.6480e-003
tblVehicleEF	OBUS	0.10	0.08
tblVehicleEF	OBUS	0.08	0.04
tblVehicleEF	OBUS	0.12	0.37
tblVehicleEF	OBUS	8.6700e-004	1.3080e-003
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	1.9600e-004	7.7800e-004
tblVehicleEF	OBUS	7.2830e-003	5.8650e-003
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.07	0.06
tblVehicleEF	OBUS	2.0130e-003	1.6480e-003
tblVehicleEF	OBUS	0.13	0.10
tblVehicleEF	OBUS	0.08	0.04
tblVehicleEF	OBUS	0.13	0.41
tblVehicleEF	OBUS	8.4460e-003	0.01
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	0.03	0.04
tblVehicleEF	OBUS	0.60	0.31
tblVehicleEF	OBUS	1.25	0.80
tblVehicleEF	OBUS	3.03	7.29
tblVehicleEF	OBUS	91.41	119.88

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

tblVehicleEF	OBUS	1,522.81	1,328.61
tblVehicleEF	OBUS	20.77	67.29
tblVehicleEF	OBUS	0.45	0.58
tblVehicleEF	OBUS	1.75	1.83
tblVehicleEF	OBUS	0.77	3.13
tblVehicleEF	OBUS	9.5900e-004	1.6600e-004
tblVehicleEF	OBUS	0.02	7.5500e-003
tblVehicleEF	OBUS	2.1500e-004	8.7700e-004
tblVehicleEF	OBUS	9.1700e-004	1.5900e-004
tblVehicleEF	OBUS	0.02	7.2040e-003
tblVehicleEF	OBUS	1.9800e-004	8.0700e-004
tblVehicleEF	OBUS	1.0210e-003	8.3100e-004
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.05	0.04
tblVehicleEF	OBUS	4.8500e-004	3.9800e-004
tblVehicleEF	OBUS	0.09	0.08
tblVehicleEF	OBUS	0.09	0.05
tblVehicleEF	OBUS	0.14	0.43
tblVehicleEF	OBUS	8.7000e-004	1.1560e-003
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	2.0600e-004	8.0000e-004
tblVehicleEF	OBUS	1.0210e-003	8.3100e-004
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.07	0.06
tblVehicleEF	OBUS	4.8500e-004	3.9800e-004
tblVehicleEF	OBUS	0.12	0.10
tblVehicleEF	OBUS	0.09	0.05
tblVehicleEF	OBUS	0.15	0.47
tblVehicleEF	SBUS	0.03	0.83

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

tblVehicleEF	SBUS	9.5190e-003	0.02
tblVehicleEF	SBUS	2.9200e-003	0.08
tblVehicleEF	SBUS	1.31	5.19
tblVehicleEF	SBUS	0.83	0.94
tblVehicleEF	SBUS	0.46	6.00
tblVehicleEF	SBUS	336.15	1,284.67
tblVehicleEF	SBUS	1,104.85	1,133.49
tblVehicleEF	SBUS	2.17	34.00
tblVehicleEF	SBUS	3.62	12.16
tblVehicleEF	SBUS	5.75	4.81
tblVehicleEF	SBUS	0.77	15.64
tblVehicleEF	SBUS	4.4410e-003	0.01
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.04	0.03
tblVehicleEF	SBUS	2.5000e-005	4.9400e-004
tblVehicleEF	SBUS	4.2490e-003	0.01
tblVehicleEF	SBUS	2.8180e-003	2.7490e-003
tblVehicleEF	SBUS	0.04	0.03
tblVehicleEF	SBUS	2.3000e-005	4.5400e-004
tblVehicleEF	SBUS	1.0060e-003	4.1710e-003
tblVehicleEF	SBUS	6.8370e-003	0.03
tblVehicleEF	SBUS	0.13	0.61
tblVehicleEF	SBUS	2.7800e-004	1.3020e-003
tblVehicleEF	SBUS	0.11	0.12
tblVehicleEF	SBUS	0.02	0.01
tblVehicleEF	SBUS	0.02	0.30
tblVehicleEF	SBUS	3.1880e-003	0.01
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	2.2000e-005	4.4300e-004

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

tblVehicleEF	SBUS	1.0060e-003	4.1710e-003
tblVehicleEF	SBUS	6.8370e-003	0.03
tblVehicleEF	SBUS	0.18	0.87
tblVehicleEF	SBUS	2.7800e-004	1.3020e-003
tblVehicleEF	SBUS	0.14	0.15
tblVehicleEF	SBUS	0.02	0.01
tblVehicleEF	SBUS	0.02	0.33
tblVehicleEF	SBUS	0.03	0.83
tblVehicleEF	SBUS	9.6950e-003	0.02
tblVehicleEF	SBUS	2.3440e-003	0.07
tblVehicleEF	SBUS	1.26	5.04
tblVehicleEF	SBUS	0.85	0.96
tblVehicleEF	SBUS	0.31	4.04
tblVehicleEF	SBUS	346.47	1,351.03
tblVehicleEF	SBUS	1,104.88	1,133.49
tblVehicleEF	SBUS	1.92	34.00
tblVehicleEF	SBUS	3.71	12.55
tblVehicleEF	SBUS	5.45	4.56
tblVehicleEF	SBUS	0.77	15.60
tblVehicleEF	SBUS	3.7520e-003	0.01
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.04	0.03
tblVehicleEF	SBUS	2.5000e-005	4.9400e-004
tblVehicleEF	SBUS	3.5890e-003	0.01
tblVehicleEF	SBUS	2.8180e-003	2.7490e-003
tblVehicleEF	SBUS	0.04	0.03
tblVehicleEF	SBUS	2.3000e-005	4.5400e-004
tblVehicleEF	SBUS	2.4450e-003	0.01
tblVehicleEF	SBUS	7.9720e-003	0.03

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

tblVehicleEF	SBUS	0.13	0.61
tblVehicleEF	SBUS	5.9900e-004	2.6730e-003
tblVehicleEF	SBUS	0.11	0.12
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.01	0.24
tblVehicleEF	SBUS	3.2850e-003	0.01
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	1.9000e-005	4.1100e-004
tblVehicleEF	SBUS	2.4450e-003	0.01
tblVehicleEF	SBUS	7.9720e-003	0.03
tblVehicleEF	SBUS	0.18	0.87
tblVehicleEF	SBUS	5.9900e-004	2.6730e-003
tblVehicleEF	SBUS	0.14	0.15
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.26
tblVehicleEF	SBUS	0.03	0.83
tblVehicleEF	SBUS	9.3440e-003	0.02
tblVehicleEF	SBUS	3.4810e-003	0.10
tblVehicleEF	SBUS	1.37	5.40
tblVehicleEF	SBUS	0.81	0.91
tblVehicleEF	SBUS	0.62	8.14
tblVehicleEF	SBUS	321.90	1,193.02
tblVehicleEF	SBUS	1,104.81	1,133.49
tblVehicleEF	SBUS	2.44	34.00
tblVehicleEF	SBUS	3.50	11.62
tblVehicleEF	SBUS	5.87	4.91
tblVehicleEF	SBUS	0.77	15.67
tblVehicleEF	SBUS	5.3930e-003	0.02
tblVehicleEF	SBUS	0.01	0.01

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

tblVehicleEF	SBUS	0.04	0.03
tblVehicleEF	SBUS	2.5000e-005	4.9400e-004
tblVehicleEF	SBUS	5.1600e-003	0.01
tblVehicleEF	SBUS	2.8180e-003	2.7490e-003
tblVehicleEF	SBUS	0.04	0.03
tblVehicleEF	SBUS	2.3000e-005	4.5400e-004
tblVehicleEF	SBUS	3.3500e-004	1.4570e-003
tblVehicleEF	SBUS	6.8640e-003	0.03
tblVehicleEF	SBUS	0.13	0.62
tblVehicleEF	SBUS	1.3200e-004	6.4200e-004
tblVehicleEF	SBUS	0.11	0.12
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.02	0.36
tblVehicleEF	SBUS	3.0530e-003	0.01
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	2.4000e-005	4.7900e-004
tblVehicleEF	SBUS	3.3500e-004	1.4570e-003
tblVehicleEF	SBUS	6.8640e-003	0.03
tblVehicleEF	SBUS	0.18	0.88
tblVehicleEF	SBUS	1.3200e-004	6.4200e-004
tblVehicleEF	SBUS	0.14	0.15
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.02	0.39
tblVehicleEF	UBUS	2.67	1.46
tblVehicleEF	UBUS	0.03	0.07
tblVehicleEF	UBUS	20.15	8.09
tblVehicleEF	UBUS	2.08	13.12
tblVehicleEF	UBUS	1,706.34	1,941.71
tblVehicleEF	UBUS	23.85	123.84

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

tblVehicleEF	UBUS	0.52	7.29
tblVehicleEF	UBUS	0.22	14.18
tblVehicleEF	UBUS	0.10	0.55
tblVehicleEF	UBUS	0.02	0.01
tblVehicleEF	UBUS	3.2850e-003	0.11
tblVehicleEF	UBUS	1.9600e-004	1.1330e-003
tblVehicleEF	UBUS	0.04	0.23
tblVehicleEF	UBUS	5.2150e-003	3.0000e-003
tblVehicleEF	UBUS	3.1240e-003	0.11
tblVehicleEF	UBUS	1.8000e-004	1.0420e-003
tblVehicleEF	UBUS	1.4830e-003	7.5650e-003
tblVehicleEF	UBUS	0.01	0.09
tblVehicleEF	UBUS	6.9400e-004	2.9570e-003
tblVehicleEF	UBUS	0.05	0.61
tblVehicleEF	UBUS	2.9300e-003	0.02
tblVehicleEF	UBUS	0.12	0.98
tblVehicleEF	UBUS	7.6390e-003	0.01
tblVehicleEF	UBUS	2.3600e-004	1.4740e-003
tblVehicleEF	UBUS	1.4830e-003	7.5650e-003
tblVehicleEF	UBUS	0.01	0.09
tblVehicleEF	UBUS	6.9400e-004	2.9570e-003
tblVehicleEF	UBUS	2.74	2.13
tblVehicleEF	UBUS	2.9300e-003	0.02
tblVehicleEF	UBUS	0.13	1.07
tblVehicleEF	UBUS	2.67	1.46
tblVehicleEF	UBUS	0.03	0.06
tblVehicleEF	UBUS	20.16	8.17
tblVehicleEF	UBUS	1.69	10.58
tblVehicleEF	UBUS	1,706.34	1,941.71

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

tblVehicleEF	UBUS	23.19	123.84
tblVehicleEF	UBUS	0.51	6.89
tblVehicleEF	UBUS	0.21	14.07
tblVehicleEF	UBUS	0.10	0.55
tblVehicleEF	UBUS	0.02	0.01
tblVehicleEF	UBUS	3.2850e-003	0.11
tblVehicleEF	UBUS	1.9600e-004	1.1330e-003
tblVehicleEF	UBUS	0.04	0.23
tblVehicleEF	UBUS	5.2150e-003	3.0000e-003
tblVehicleEF	UBUS	3.1240e-003	0.11
tblVehicleEF	UBUS	1.8000e-004	1.0420e-003
tblVehicleEF	UBUS	3.5190e-003	0.02
tblVehicleEF	UBUS	0.02	0.12
tblVehicleEF	UBUS	1.5090e-003	6.4050e-003
tblVehicleEF	UBUS	0.05	0.62
tblVehicleEF	UBUS	2.7910e-003	0.02
tblVehicleEF	UBUS	0.11	0.86
tblVehicleEF	UBUS	7.6390e-003	0.01
tblVehicleEF	UBUS	2.2900e-004	1.4310e-003
tblVehicleEF	UBUS	3.5190e-003	0.02
tblVehicleEF	UBUS	0.02	0.12
tblVehicleEF	UBUS	1.5090e-003	6.4050e-003
tblVehicleEF	UBUS	2.74	2.14
tblVehicleEF	UBUS	2.7910e-003	0.02
tblVehicleEF	UBUS	0.12	0.94
tblVehicleEF	UBUS	2.67	1.45
tblVehicleEF	UBUS	0.03	0.08
tblVehicleEF	UBUS	20.15	8.01
tblVehicleEF	UBUS	2.53	16.07

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

tblVehicleEF	UBUS	1,706.33	1,941.71
tblVehicleEF	UBUS	24.61	123.84
tblVehicleEF	UBUS	0.52	7.45
tblVehicleEF	UBUS	0.23	14.30
tblVehicleEF	UBUS	0.10	0.55
tblVehicleEF	UBUS	0.02	0.01
tblVehicleEF	UBUS	3.2850e-003	0.11
tblVehicleEF	UBUS	1.9600e-004	1.1330e-003
tblVehicleEF	UBUS	0.04	0.23
tblVehicleEF	UBUS	5.2150e-003	3.0000e-003
tblVehicleEF	UBUS	3.1240e-003	0.11
tblVehicleEF	UBUS	1.8000e-004	1.0420e-003
tblVehicleEF	UBUS	5.0600e-004	2.6700e-003
tblVehicleEF	UBUS	0.01	0.10
tblVehicleEF	UBUS	3.1800e-004	1.4080e-003
tblVehicleEF	UBUS	0.05	0.60
tblVehicleEF	UBUS	3.5990e-003	0.02
tblVehicleEF	UBUS	0.13	1.11
tblVehicleEF	UBUS	7.6390e-003	0.01
tblVehicleEF	UBUS	2.4300e-004	1.5250e-003
tblVehicleEF	UBUS	5.0600e-004	2.6700e-003
tblVehicleEF	UBUS	0.01	0.10
tblVehicleEF	UBUS	3.1800e-004	1.4080e-003
tblVehicleEF	UBUS	2.74	2.12
tblVehicleEF	UBUS	3.5990e-003	0.02
tblVehicleEF	UBUS	0.15	1.21
tblVehicleTrips	ST_TR	2.21	2.40
tblVehicleTrips	ST_TR	2.12	0.07
tblVehicleTrips	SU_TR	0.70	2.40

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

tblVehicleTrips	SU_TR	2.12	0.00
tblVehicleTrips	WD_TR	9.74	2.40
tblVehicleTrips	WD_TR	2.12	0.00
tblWater	AerobicPercent	87.46	0.00
tblWater	AnaDigestCombDigestGasPercent	100.00	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	IndoorWaterUseRate	6,736,312.50	0.00
tblWater	OutdoorWaterUseRate	272,333.97	0.00
tblWater	SepticTankPercent	10.33	100.00

2.0 Emissions Summary

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

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	3.2515	34.9558	19.0495	0.0420	12.7882	1.5486	14.3368	6.6961	1.4247	8.1209	0.0000	4,067.6310	4,067.6310	1.3142	0.0104	4,101.5148
2023	2.0744	19.1438	18.8857	0.0360	0.0941	0.8878	0.9818	0.0118	0.8406	0.8524	0.0000	3,426.4494	3,426.4494	0.7253	9.9400e-003	3,447.5465
Maximum	**3.2515**	**34.9558**	**19.0495**	**0.0420**	**12.7882**	**1.5486**	**14.3368**	**6.6961**	**1.4247**	**8.1209**	**0.0000**	**4,067.6310**	**4,067.6310**	**1.3142**	**0.0104**	**4,101.5148**

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	1.0132	13.5886	24.9776	0.0420	5.8786	0.2159	5.9471	3.0263	0.2046	3.0948	0.0000	4,067.6310	4,067.6310	1.3142	0.0104	4,101.5148
2023	0.9828	13.3854	22.2443	0.0360	0.0627	0.1944	0.2570	8.6400e-003	0.1848	0.1935	0.0000	3,426.4494	3,426.4494	0.7253	9.9400e-003	3,447.5465
Maximum	**1.0132**	**13.5886**	**24.9776**	**0.0420**	**5.8786**	**0.2159**	**5.9471**	**3.0263**	**0.2046**	**3.0948**	**0.0000**	**4,067.6310**	**4,067.6310**	**1.3142**	**0.0104**	**4,101.5148**

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**62.52**	**50.14**	**-24.48**	**0.00**	**53.88**	**83.16**	**59.50**	**54.76**	**82.81**	**63.35**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.7978	3.0000e-005	3.2300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		6.9200e-003	6.9200e-003	2.0000e-005		7.3800e-003
Energy	2.2000e-003	0.0200	0.0168	1.2000e-004		1.5200e-003	1.5200e-003		1.5200e-003	1.5200e-003		23.9683	23.9683	4.6000e-004	4.4000e-004	24.1107
Mobile	0.0211	0.3489	0.1681	1.3100e-003	0.0535	1.0200e-003	0.0545	0.0144	9.7000e-004	0.0153		135.9489	135.9489	8.8900e-003	0.0124	139.8632
Offroad	0.3730	4.1843	1.8923	5.7700e-003		0.1737	0.1737		0.1598	0.1598	0.0000	558.8304	558.8304	0.1807		563.3488
Total	**1.1940**	**4.5532**	**2.0804**	**7.2000e-003**	**0.0535**	**0.1763**	**0.2298**	**0.0144**	**0.1623**	**0.1767**	**0.0000**	**718.7545**	**718.7545**	**0.1901**	**0.0128**	**727.3300**

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

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.7978	3.0000e-005	3.2300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		6.9200e-003	6.9200e-003	2.0000e-005		7.3800e-003
Energy	2.2000e-003	0.0200	0.0168	1.2000e-004		1.5200e-003	1.5200e-003		1.5200e-003	1.5200e-003		23.9683	23.9683	4.6000e-004	4.4000e-004	24.1107
Mobile	0.0211	0.3489	0.1681	1.3100e-003	0.0535	1.0200e-003	0.0545	0.0144	9.7000e-004	0.0153		135.9489	135.9489	8.8900e-003	0.0124	139.8632
Offroad	0.3730	4.1843	1.8923	5.7700e-003		0.1737	0.1737		0.1598	0.1598	0.0000	558.8304	558.8304	0.1807		563.3488
Total	**1.1940**	**4.5532**	**2.0804**	**7.2000e-003**	**0.0535**	**0.1763**	**0.2298**	**0.0144**	**0.1623**	**0.1767**	**0.0000**	**718.7545**	**718.7545**	**0.1901**	**0.0128**	**727.3300**

	ROG	NOx	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	PG&E Substation Site Preparation	Site Preparation	6/23/2022	7/22/2022	5	22	
2	PG&E Substation Grading	Grading	7/23/2022	8/23/2022	5	22	
3	PG&E Substation Construction	Building Construction	8/24/2022	1/10/2023	5	100	

Acres of Grading (Site Preparation Phase): 11

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

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
PG&E Substation Site Preparation	Graders	2	8.00	187	0.41
PG&E Substation Site Preparation	Rubber Tired Loaders	2	8.00	203	0.36
PG&E Substation Site Preparation	Skid Steer Loaders	2	8.00	65	0.37
PG&E Substation Site Preparation	Tractors/Loaders/Backhoes	2	8.00	97	0.37
PG&E Substation Grading	Concrete/Industrial Saws	0	8.00	81	0.73
PG&E Substation Grading	Graders	2	8.00	187	0.41
PG&E Substation Grading	Rollers	2	8.00	80	0.38
PG&E Substation Grading	Rubber Tired Dozers	2	8.00	247	0.40
PG&E Substation Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
PG&E Substation Construction	Cement and Mortar Mixers	2	8.00	9	0.56
PG&E Substation Construction	Cranes	2	8.00	231	0.29
PG&E Substation Construction	Forklifts	2	8.00	89	0.20
PG&E Substation Construction	Pumps	2	8.00	84	0.74
PG&E Substation Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37

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
PG&E Substation Site Preparation	8	40.00	2.00	0.00	0.25	0.25	20.00	LD_Mix	HDT_Mix	HHDT
PG&E Substation Grading	8	40.00	2.00	0.00	0.25	0.25	20.00	LD_Mix	HDT_Mix	HHDT
PG&E Substation Construction	10	40.00	20.00	0.00	0.25	0.25	20.00	LD_Mix	HDT_Mix	HHDT

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

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 PG&E Substation 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					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000
Off-Road	1.8814	21.7736	13.7562	0.0361		0.7866	0.7866		0.7237	0.7237		3,497.1469	3,497.1469	1.1311		3,525.4231
Total	**1.8814**	**21.7736**	**13.7562**	**0.0361**	**0.5303**	**0.7866**	**1.3169**	**0.0573**	**0.7237**	**0.7809**		**3,497.1469**	**3,497.1469**	**1.1311**		**3,525.4231**

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

3.2 PG&E Substation 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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.5200e-003	0.0269	0.0186	5.0000e-005	0.7360	7.0000e-005	0.7361	0.0735	6.0000e-005	0.0736		4.9587	4.9587	9.0000e-005	7.7000e-004	5.1905
Worker	0.0838	0.0233	0.2145	1.5000e-004	7.9900e-003	2.4000e-004	8.2300e-003	2.1700e-003	2.2000e-004	2.3900e-003		15.3583	15.3583	5.1600e-003	2.6800e-003	16.2856
Total	**0.0853**	**0.0503**	**0.2331**	**2.0000e-004**	**0.7440**	**3.1000e-004**	**0.7443**	**0.0757**	**2.8000e-004**	**0.0760**		**20.3169**	**20.3169**	**5.2500e-003**	**3.4500e-003**	**21.4761**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.2386	0.0000	0.2386	0.0258	0.0000	0.0258			0.0000			0.0000
Off-Road	0.6636	11.8478	21.5569	0.0361		0.1474	0.1474		0.1474	0.1474	0.0000	3,497.1469	3,497.1469	1.1311		3,525.4231
Total	**0.6636**	**11.8478**	**21.5569**	**0.0361**	**0.2386**	**0.1474**	**0.3860**	**0.0258**	**0.1474**	**0.1732**	**0.0000**	**3,497.1469**	**3,497.1469**	**1.1311**		**3,525.4231**

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

3.2 PG&E Substation 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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.5200e-003	0.0269	0.0186	5.0000e-005	0.4507	7.0000e-005	0.4508	0.0450	6.0000e-005	0.0450		4.9587	4.9587	9.0000e-005	7.7000e-004	5.1905
Worker	0.0838	0.0233	0.2145	1.5000e-004	7.9900e-003	2.4000e-004	8.2300e-003	2.1700e-003	2.2000e-004	2.3900e-003		15.3583	15.3583	5.1600e-003	2.6800e-003	16.2856
Total	**0.0853**	**0.0503**	**0.2331**	**2.0000e-004**	**0.4587**	**3.1000e-004**	**0.4590**	**0.0471**	**2.8000e-004**	**0.0474**		**20.3169**	**20.3169**	**5.2500e-003**	**3.4500e-003**	**21.4761**

3.3 PG&E Substation 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					12.0442	0.0000	12.0442	6.6205	0.0000	6.6205			0.0000			0.0000
Off-Road	3.1662	34.9056	18.8041	0.0418		1.5483	1.5483		1.4245	1.4245		4,047.3141	4,047.3141	1.3090		4,080.0387
Total	**3.1662**	**34.9056**	**18.8041**	**0.0418**	**12.0442**	**1.5483**	**13.5925**	**6.6205**	**1.4245**	**8.0449**		**4,047.3141**	**4,047.3141**	**1.3090**		**4,080.0387**

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

3.3 PG&E Substation 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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.5200e-003	0.0269	0.0186	5.0000e-005	0.7360	7.0000e-005	0.7361	0.0735	6.0000e-005	0.0736		4.9587	4.9587	9.0000e-005	7.7000e-004	5.1905
Worker	0.0838	0.0233	0.2145	1.5000e-004	7.9900e-003	2.4000e-004	8.2300e-003	2.1700e-003	2.2000e-004	2.3900e-003		15.3583	15.3583	5.1600e-003	2.6800e-003	16.2856
Total	**0.0853**	**0.0503**	**0.2331**	**2.0000e-004**	**0.7440**	**3.1000e-004**	**0.7443**	**0.0757**	**2.8000e-004**	**0.0760**		**20.3169**	**20.3169**	**5.2500e-003**	**3.4500e-003**	**21.4761**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					5.4199	0.0000	5.4199	2.9792	0.0000	2.9792			0.0000			0.0000
Off-Road	0.7524	12.9885	24.7445	0.0418		0.0682	0.0682		0.0682	0.0682	0.0000	4,047.3141	4,047.3141	1.3090		4,080.0387
Total	**0.7524**	**12.9885**	**24.7445**	**0.0418**	**5.4199**	**0.0682**	**5.4881**	**2.9792**	**0.0682**	**3.0474**	**0.0000**	**4,047.3141**	**4,047.3141**	**1.3090**		**4,080.0387**

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

3.3 PG&E Substation 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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.5200e-003	0.0269	0.0186	5.0000e-005	0.4507	7.0000e-005	0.4508	0.0450	6.0000e-005	0.0450		4.9587	4.9587	9.0000e-005	7.7000e-004	5.1905
Worker	0.0838	0.0233	0.2145	1.5000e-004	7.9900e-003	2.4000e-004	8.2300e-003	2.1700e-003	2.2000e-004	2.3900e-003		15.3583	15.3583	5.1600e-003	2.6800e-003	16.2856
Total	**0.0853**	**0.0503**	**0.2331**	**2.0000e-004**	**0.4587**	**3.1000e-004**	**0.4590**	**0.0471**	**2.8000e-004**	**0.0474**		**20.3169**	**20.3169**	**5.2500e-003**	**3.4500e-003**	**21.4761**

3.4 PG&E Substation 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	2.1239	20.5036	18.6487	0.0354		1.0074	1.0074		0.9540	0.9540		3,363.3020	3,363.3020	0.7262		3,381.4559
Total	**2.1239**	**20.5036**	**18.6487**	**0.0354**		**1.0074**	**1.0074**		**0.9540**	**0.9540**		**3,363.3020**	**3,363.3020**	**0.7262**		**3,381.4559**

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

3.4 PG&E Substation 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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0152	0.2694	0.1863	4.7000e-004	0.0861	6.7000e-004	0.0867	9.6100e-003	6.4000e-004	0.0103		49.5865	49.5865	8.7000e-004	7.7100e-003	51.9050
Worker	0.0838	0.0233	0.2145	1.5000e-004	7.9900e-003	2.4000e-004	8.2300e-003	2.1700e-003	2.2000e-004	2.3900e-003		15.3583	15.3583	5.1600e-003	2.6800e-003	16.2856
Total	**0.0990**	**0.2927**	**0.4008**	**6.2000e-004**	**0.0941**	**9.1000e-004**	**0.0950**	**0.0118**	**8.6000e-004**	**0.0126**		**64.9448**	**64.9448**	**6.0300e-003**	**0.0104**	**68.1906**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9142	13.2959	21.8651	0.0354		0.2150	0.2150		0.2038	0.2038	0.0000	3,363.3020	3,363.3020	0.7262		3,381.4559
Total	**0.9142**	**13.2959**	**21.8651**	**0.0354**		**0.2150**	**0.2150**		**0.2038**	**0.2038**	**0.0000**	**3,363.3020**	**3,363.3020**	**0.7262**		**3,381.4559**

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

3.4 PG&E Substation 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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0152	0.2694	0.1863	4.7000e-004	0.0547	6.7000e-004	0.0553	6.4700e-003	6.4000e-004	7.1100e-003		49.5865	49.5865	8.7000e-004	7.7100e-003	51.9050
Worker	0.0838	0.0233	0.2145	1.5000e-004	7.9900e-003	2.4000e-004	8.2300e-003	2.1700e-003	2.2000e-004	2.3900e-003		15.3583	15.3583	5.1600e-003	2.6800e-003	16.2856
Total	**0.0990**	**0.2927**	**0.4008**	**6.2000e-004**	**0.0627**	**9.1000e-004**	**0.0636**	**8.6400e-003**	**8.6000e-004**	**9.5000e-003**		**64.9448**	**64.9448**	**6.0300e-003**	**0.0104**	**68.1906**

3.4 PG&E Substation 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	1.9837	18.8638	18.4883	0.0354		0.8872	0.8872		0.8401	0.8401		3,363.9549	3,363.9549	0.7198		3,381.9496
Total	**1.9837**	**18.8638**	**18.4883**	**0.0354**		**0.8872**	**0.8872**		**0.8401**	**0.8401**		**3,363.9549**	**3,363.9549**	**0.7198**		**3,381.9496**

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

3.4 PG&E Substation 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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0141	0.2587	0.1928	4.5000e-004	0.0861	3.3000e-004	0.0864	9.6100e-003	3.1000e-004	9.9200e-003		47.6303	47.6303	8.2000e-004	7.4000e-003	49.8569
Worker	0.0766	0.0213	0.2046	1.5000e-004	7.9900e-003	2.3000e-004	8.2200e-003	2.1700e-003	2.1000e-004	2.3800e-003		14.8642	14.8642	4.7200e-003	2.5400e-003	15.7400
Total	**0.0907**	**0.2800**	**0.3973**	**6.0000e-004**	**0.0941**	**5.6000e-004**	**0.0946**	**0.0118**	**5.2000e-004**	**0.0123**		**62.4945**	**62.4945**	**5.5400e-003**	**9.9400e-003**	**65.5969**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.8921	13.1054	21.8470	0.0354		0.1938	0.1938		0.1843	0.1843	0.0000	3,363.9549	3,363.9549	0.7198		3,381.9496
Total	**0.8921**	**13.1054**	**21.8470**	**0.0354**		**0.1938**	**0.1938**		**0.1843**	**0.1843**	**0.0000**	**3,363.9549**	**3,363.9549**	**0.7198**		**3,381.9496**

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

3.4 PG&E Substation 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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0141	0.2587	0.1928	4.5000e-004	0.0547	3.3000e-004	0.0550	6.4700e-003	3.1000e-004	6.7800e-003		47.6303	47.6303	8.2000e-004	7.4000e-003	49.8569
Worker	0.0766	0.0213	0.2046	1.5000e-004	7.9900e-003	2.3000e-004	8.2200e-003	2.1700e-003	2.1000e-004	2.3800e-003		14.8642	14.8642	4.7200e-003	2.5400e-003	15.7400
Total	**0.0907**	**0.2800**	**0.3973**	**6.0000e-004**	**0.0627**	**5.6000e-004**	**0.0632**	**8.6400e-003**	**5.2000e-004**	**9.1600e-003**		**62.4945**	**62.4945**	**5.5400e-003**	**9.9400e-003**	**65.5969**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0211	0.3489	0.1681	1.3100e-003	0.0535	1.0200e-003	0.0545	0.0144	9.7000e-004	0.0153		135.9489	135.9489	8.8900e-003	0.0124	139.8632
Unmitigated	0.0211	0.3489	0.1681	1.3100e-003	0.0535	1.0200e-003	0.0545	0.0144	9.7000e-004	0.0153		135.9489	135.9489	8.8900e-003	0.0124	139.8632

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	6.00	6.00	6.00	16,565	16,565
Refrigerated Warehouse-No Rail	0.00	2.04	0.00	1,125	1,125
Total	6.00	8.04	6.00	17,690	17,690

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Office Building	14.70	6.60	6.60	33.00	48.00	19.00	77	19	4
Refrigerated Warehouse-No	14.70	6.60	6.60	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	0.500000	0.250000	0.250000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Refrigerated Warehouse-No Rail	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	1.000000	0.000000	0.000000	0.000000	0.000000	0.000000

5.0 Energy Detail

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

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	2.2000e-003	0.0200	0.0168	1.2000e-004		1.5200e-003	1.5200e-003		1.5200e-003	1.5200e-003		23.9683	23.9683	4.6000e-004	4.4000e-004	24.1107
NaturalGas Unmitigated	2.2000e-003	0.0200	0.0168	1.2000e-004		1.5200e-003	1.5200e-003		1.5200e-003	1.5200e-003		23.9683	23.9683	4.6000e-004	4.4000e-004	24.1107

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Office Building	112.74	1.2200e-003	0.0111	9.2800e-003	7.0000e-005		8.4000e-004	8.4000e-004		8.4000e-004	8.4000e-004		13.2635	13.2635	2.5000e-004	2.4000e-004	13.3423
Refrigerated Warehouse-No Rail	90.9907	9.8000e-004	8.9200e-003	7.4900e-003	5.0000e-005		6.8000e-004	6.8000e-004		6.8000e-004	6.8000e-004		10.7048	10.7048	2.1000e-004	2.0000e-004	10.7684
Total		**2.2000e-003**	**0.0200**	**0.0168**	**1.2000e-004**		**1.5200e-003**	**1.5200e-003**		**1.5200e-003**	**1.5200e-003**		**23.9683**	**23.9683**	**4.6000e-004**	**4.4000e-004**	**24.1107**

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

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Office Building	0.11274	1.2200e-003	0.0111	9.2800e-003	7.0000e-005		8.4000e-004	8.4000e-004		8.4000e-004	8.4000e-004		13.2635	13.2635	2.5000e-004	2.4000e-004	13.3423
Refrigerated Warehouse-No Rail	0.0909907	9.8000e-004	8.9200e-003	7.4900e-003	5.0000e-005		6.8000e-004	6.8000e-004		6.8000e-004	6.8000e-004		10.7048	10.7048	2.1000e-004	2.0000e-004	10.7684
Total		**2.2000e-003**	**0.0200**	**0.0168**	**1.2000e-004**		**1.5200e-003**	**1.5200e-003**		**1.5200e-003**	**1.5200e-003**		**23.9683**	**23.9683**	**4.6000e-004**	**4.4000e-004**	**24.1107**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.7978	3.0000e-005	3.2300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		6.9200e-003	6.9200e-003	2.0000e-005		7.3800e-003
Unmitigated	0.7978	3.0000e-005	3.2300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		6.9200e-003	6.9200e-003	2.0000e-005		7.3800e-003

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

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.1205					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.6770					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	3.0000e-004	3.0000e-005	3.2300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		6.9200e-003	6.9200e-003	2.0000e-005		7.3800e-003
Total	**0.7978**	**3.0000e-005**	**3.2300e-003**	**0.0000**		**1.0000e-005**	**1.0000e-005**		**1.0000e-005**	**1.0000e-005**		**6.9200e-003**	**6.9200e-003**	**2.0000e-005**		**7.3800e-003**

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	0.1205					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.6770					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	3.0000e-004	3.0000e-005	3.2300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		6.9200e-003	6.9200e-003	2.0000e-005		7.3800e-003
Total	**0.7978**	**3.0000e-005**	**3.2300e-003**	**0.0000**		**1.0000e-005**	**1.0000e-005**		**1.0000e-005**	**1.0000e-005**		**6.9200e-003**	**6.9200e-003**	**2.0000e-005**		**7.3800e-003**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Cranes	1	8.00	1	231	0.29	Diesel
Generator Sets	0	8.00	260	84	0.74	Diesel

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

UnMitigated/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
Equipment Type	lb/day										lb/day					
Cranes	0.3730	4.1843	1.8923	5.7700e-003		0.1737	0.1737		0.1598	0.1598	0.0000	558.8304	558.8304	0.1807		563.3488
Generator Sets	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Total	**0.3730**	**4.1843**	**1.8923**	**5.7700e-003**		**0.1737**	**0.1737**		**0.1598**	**0.1598**	**0.0000**	**558.8304**	**558.8304**	**0.1807**		**563.3488**

10.0 Stationary Equipment

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

11.0 Vegetation

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

North Central Valley Energy Center Project - PG&E Substation Onsite

San Joaquin Valley Unified APCD Air District, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	2.50	1000sqft	0.06	2,500.00	0
Refrigerated Warehouse-No Rail	29.13	1000sqft	0.67	29,133.00	0

1.2 Other Project Characteristics

Urbanization	Rural	**Wind Speed (m/s)**	2.7	**Precipitation Freq (Days)**	45
Climate Zone	2			**Operational Year**	2022
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	641.35	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use -

Construction Phase - Based on applicant provided data.

Off-road Equipment - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.

Off-road Equipment - Based on applicant provided information.

Trips and VMT - Based on applicant provided data.

On-road Fugitive Dust - Assumes 0.25 miles of non-road travel per trip for vendor trucks. All other vehicles will park at staging/substation area.

North Central Valley Energy Center Project - PG&E Substation Onsite - San Joaquin Valley Unified APCD Air District, Winter

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

Grading - Based on applicant provided information.

Architectural Coating -

Vehicle Trips - 3 employees at the operations and maintenance building and water deliveries once per week

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Road Dust - CalEEMod defaults.

Consumer Products - No consumer product use.

Area Coating - CalEEMod defaults.

Landscape Equipment - No landscaping.

Energy Use - CalEEMod defaults.

Water And Wastewater - Water use for operations and maintenance building only.

Solid Waste - CalEEMod defaults for O&M building.

Construction Off-road Equipment Mitigation - In accordance with SJVAPCD Rule 8021.

Operational Off-Road Equipment - Based on applicant provided information.

Fleet Mix - Worker vehicles only for O&M building. HHD for water deliveries.

Table Name	Column Name	Default Value	New Value
tblEnergyUse	T24E	2.87	3.22
tblEnergyUse	T24E	0.32	0.36
tblEnergyUse	T24NG	15.83	15.99
tblEnergyUse	T24NG	1.13	1.14
tblFleetMix	HHD	0.03	0.00
tblFleetMix	HHD	0.03	1.00
tblFleetMix	LDA	0.50	0.50
tblFleetMix	LDA	0.50	0.00
tblFleetMix	LDT1	0.05	0.25
tblFleetMix	LDT1	0.05	0.00
tblFleetMix	LDT2	0.17	0.25

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

tblFleetMix	LDT2	0.17	0.00
tblFleetMix	LHD1	0.03	0.00
tblFleetMix	LHD1	0.03	0.00
tblFleetMix	LHD2	8.1030e-003	0.00
tblFleetMix	LHD2	8.1030e-003	0.00
tblFleetMix	MCY	0.02	0.00
tblFleetMix	MCY	0.02	0.00
tblFleetMix	MDV	0.17	0.00
tblFleetMix	MDV	0.17	0.00
tblFleetMix	MH	3.8930e-003	0.00
tblFleetMix	MH	3.8930e-003	0.00
tblFleetMix	MHD	0.01	0.00
tblFleetMix	MHD	0.01	0.00
tblFleetMix	OBUS	6.8200e-004	0.00
tblFleetMix	OBUS	6.8200e-004	0.00
tblFleetMix	SBUS	1.5390e-003	0.00
tblFleetMix	SBUS	1.5390e-003	0.00
tblFleetMix	UBUS	3.1900e-004	0.00
tblFleetMix	UBUS	3.1900e-004	0.00
tblGrading	AcresOfGrading	44.00	0.00
tblGrading	AcresOfGrading	22.00	11.00
tblLandUse	LandUseSquareFeet	29,130.00	29,133.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	UsageHours	4.00	8.00

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

tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOnRoadDust	VendorPercentPave	100.00	0.00
tblOnRoadDust	VendorPercentPave	100.00	0.00
tblOnRoadDust	VendorPercentPave	100.00	98.90
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	1.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	1.00
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblSolidWaste	SolidWasteGenerationRate	27.38	0.00
tblTripsAndVMT	VendorTripLength	6.60	0.25
tblTripsAndVMT	VendorTripLength	6.60	0.25
tblTripsAndVMT	VendorTripLength	6.60	0.25
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	5.00	20.00
tblTripsAndVMT	WorkerTripLength	16.80	0.25
tblTripsAndVMT	WorkerTripLength	16.80	0.25
tblTripsAndVMT	WorkerTripLength	16.80	0.25
tblTripsAndVMT	WorkerTripNumber	20.00	40.00
tblTripsAndVMT	WorkerTripNumber	20.00	40.00
tblTripsAndVMT	WorkerTripNumber	13.00	40.00
tblVehicleEF	HHD	0.02	1.68
tblVehicleEF	HHD	6.7280e-003	0.01
tblVehicleEF	HHD	0.00	0.08
tblVehicleEF	HHD	7.17	2.97
tblVehicleEF	HHD	0.30	0.64
tblVehicleEF	HHD	1.0920e-003	1.06

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

tblVehicleEF	HHD	1,281.56	5,862.34
tblVehicleEF	HHD	1,396.27	1,551.67
tblVehicleEF	HHD	0.01	3.28
tblVehicleEF	HHD	6.58	22.84
tblVehicleEF	HHD	3.01	3.12
tblVehicleEF	HHD	2.04	20.48
tblVehicleEF	HHD	3.3360e-003	0.02
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.03	0.01
tblVehicleEF	HHD	0.00	2.2000e-005
tblVehicleEF	HHD	3.1920e-003	0.02
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.9510e-003	8.9250e-003
tblVehicleEF	HHD	0.03	0.01
tblVehicleEF	HHD	0.00	2.0000e-005
tblVehicleEF	HHD	2.0000e-006	4.8000e-005
tblVehicleEF	HHD	5.9000e-005	1.6430e-003
tblVehicleEF	HHD	0.51	0.79
tblVehicleEF	HHD	1.0000e-006	2.5000e-005
tblVehicleEF	HHD	0.06	0.12
tblVehicleEF	HHD	3.5000e-005	1.2800e-004
tblVehicleEF	HHD	0.00	0.03
tblVehicleEF	HHD	0.01	0.06
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	0.00	5.0000e-005
tblVehicleEF	HHD	2.0000e-006	4.8000e-005
tblVehicleEF	HHD	5.9000e-005	1.6430e-003
tblVehicleEF	HHD	0.59	0.90

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

tblVehicleEF	HHD	1.0000e-006	2.5000e-005
tblVehicleEF	HHD	0.07	0.14
tblVehicleEF	HHD	3.5000e-005	1.2800e-004
tblVehicleEF	HHD	0.00	0.03
tblVehicleEF	HHD	0.03	1.59
tblVehicleEF	HHD	6.7290e-003	0.01
tblVehicleEF	HHD	0.00	0.08
tblVehicleEF	HHD	7.03	2.16
tblVehicleEF	HHD	0.30	0.64
tblVehicleEF	HHD	1.0140e-003	0.99
tblVehicleEF	HHD	1,273.14	6,210.27
tblVehicleEF	HHD	1,396.27	1,551.67
tblVehicleEF	HHD	0.01	3.28
tblVehicleEF	HHD	6.34	23.58
tblVehicleEF	HHD	2.86	2.97
tblVehicleEF	HHD	2.04	20.48
tblVehicleEF	HHD	2.9600e-003	0.02
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.03	0.01
tblVehicleEF	HHD	0.00	2.2000e-005
tblVehicleEF	HHD	2.8320e-003	0.02
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.9510e-003	8.9250e-003
tblVehicleEF	HHD	0.03	0.01
tblVehicleEF	HHD	0.00	2.0000e-005
tblVehicleEF	HHD	5.0000e-006	1.1500e-004
tblVehicleEF	HHD	7.0000e-005	1.8740e-003
tblVehicleEF	HHD	0.54	0.75

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

tblVehicleEF	HHD	2.0000e-006	5.2000e-005
tblVehicleEF	HHD	0.06	0.12
tblVehicleEF	HHD	3.6000e-005	1.2900e-004
tblVehicleEF	HHD	0.00	0.02
tblVehicleEF	HHD	0.01	0.06
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	0.00	4.9000e-005
tblVehicleEF	HHD	5.0000e-006	1.1500e-004
tblVehicleEF	HHD	7.0000e-005	1.8740e-003
tblVehicleEF	HHD	0.62	0.85
tblVehicleEF	HHD	2.0000e-006	5.2000e-005
tblVehicleEF	HHD	0.07	0.14
tblVehicleEF	HHD	3.6000e-005	1.2900e-004
tblVehicleEF	HHD	0.00	0.03
tblVehicleEF	HHD	0.02	1.82
tblVehicleEF	HHD	6.7270e-003	0.01
tblVehicleEF	HHD	0.00	0.09
tblVehicleEF	HHD	7.35	4.09
tblVehicleEF	HHD	0.30	0.64
tblVehicleEF	HHD	1.1890e-003	1.16
tblVehicleEF	HHD	1,293.19	5,381.86
tblVehicleEF	HHD	1,396.27	1,551.67
tblVehicleEF	HHD	0.01	3.28
tblVehicleEF	HHD	6.92	21.83
tblVehicleEF	HHD	3.06	3.18
tblVehicleEF	HHD	2.04	20.49
tblVehicleEF	HHD	3.8560e-003	0.03
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04

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

tblVehicleEF	HHD	0.03	0.01
tblVehicleEF	HHD	0.00	2.2000e-005
tblVehicleEF	HHD	3.6890e-003	0.02
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.9510e-003	8.9250e-003
tblVehicleEF	HHD	0.03	0.01
tblVehicleEF	HHD	0.00	2.0000e-005
tblVehicleEF	HHD	1.0000e-006	1.6000e-005
tblVehicleEF	HHD	6.4000e-005	1.6630e-003
tblVehicleEF	HHD	0.48	0.85
tblVehicleEF	HHD	0.00	1.0000e-005
tblVehicleEF	HHD	0.06	0.12
tblVehicleEF	HHD	3.7000e-005	1.4000e-004
tblVehicleEF	HHD	0.00	0.03
tblVehicleEF	HHD	0.01	0.05
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	0.00	5.2000e-005
tblVehicleEF	HHD	1.0000e-006	1.6000e-005
tblVehicleEF	HHD	6.4000e-005	1.6630e-003
tblVehicleEF	HHD	0.54	0.97
tblVehicleEF	HHD	0.00	1.0000e-005
tblVehicleEF	HHD	0.07	0.14
tblVehicleEF	HHD	3.7000e-005	1.4000e-004
tblVehicleEF	HHD	1.0000e-006	0.03
tblVehicleEF	LDA	2.4340e-003	3.9700e-003
tblVehicleEF	LDA	0.05	5.4490e-003
tblVehicleEF	LDA	0.62	0.54
tblVehicleEF	LDA	2.21	1.18
tblVehicleEF	LDA	265.67	257.67

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

tblVehicleEF	LDA	54.17	57.35
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.19	0.07
tblVehicleEF	LDA	1.4640e-003	1.7000e-003
tblVehicleEF	LDA	1.8780e-003	2.2880e-003
tblVehicleEF	LDA	1.3480e-003	1.5670e-003
tblVehicleEF	LDA	1.7270e-003	2.1040e-003
tblVehicleEF	LDA	0.07	0.05
tblVehicleEF	LDA	0.11	0.10
tblVehicleEF	LDA	0.05	0.03
tblVehicleEF	LDA	9.3930e-003	9.9860e-003
tblVehicleEF	LDA	0.03	0.03
tblVehicleEF	LDA	0.24	0.07
tblVehicleEF	LDA	2.6280e-003	2.5800e-003
tblVehicleEF	LDA	5.3600e-004	5.9300e-004
tblVehicleEF	LDA	0.07	0.05
tblVehicleEF	LDA	0.11	0.10
tblVehicleEF	LDA	0.05	0.03
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.03	0.03
tblVehicleEF	LDA	0.26	0.08
tblVehicleEF	LDA	2.8340e-003	4.5780e-003
tblVehicleEF	LDA	0.04	4.4940e-003
tblVehicleEF	LDA	0.78	0.68
tblVehicleEF	LDA	1.84	0.98
tblVehicleEF	LDA	291.82	283.49
tblVehicleEF	LDA	53.45	57.35
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	0.18	0.07

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

tblVehicleEF	LDA	1.4640e-003	1.7000e-003
tblVehicleEF	LDA	1.8780e-003	2.2880e-003
tblVehicleEF	LDA	1.3480e-003	1.5670e-003
tblVehicleEF	LDA	1.7270e-003	2.1040e-003
tblVehicleEF	LDA	0.16	0.11
tblVehicleEF	LDA	0.13	0.12
tblVehicleEF	LDA	0.10	0.07
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.03	0.03
tblVehicleEF	LDA	0.20	0.06
tblVehicleEF	LDA	2.8870e-003	2.8400e-003
tblVehicleEF	LDA	5.2900e-004	5.9000e-004
tblVehicleEF	LDA	0.16	0.11
tblVehicleEF	LDA	0.13	0.12
tblVehicleEF	LDA	0.10	0.07
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.03	0.03
tblVehicleEF	LDA	0.21	0.07
tblVehicleEF	LDA	2.2550e-003	3.7350e-003
tblVehicleEF	LDA	0.06	6.4220e-003
tblVehicleEF	LDA	0.58	0.50
tblVehicleEF	LDA	2.70	1.44
tblVehicleEF	LDA	255.88	248.09
tblVehicleEF	LDA	55.08	57.35
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.21	0.08
tblVehicleEF	LDA	1.4640e-003	1.7000e-003
tblVehicleEF	LDA	1.8780e-003	2.2880e-003
tblVehicleEF	LDA	1.3480e-003	1.5670e-003

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

tblVehicleEF	LDA	1.7270e-003	2.1040e-003
tblVehicleEF	LDA	0.02	0.01
tblVehicleEF	LDA	0.11	0.10
tblVehicleEF	LDA	0.02	0.01
tblVehicleEF	LDA	8.8310e-003	9.4030e-003
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.28	0.09
tblVehicleEF	LDA	2.5310e-003	2.4830e-003
tblVehicleEF	LDA	5.4500e-004	5.9800e-004
tblVehicleEF	LDA	0.02	0.01
tblVehicleEF	LDA	0.11	0.10
tblVehicleEF	LDA	0.02	0.01
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.30	0.09
tblVehicleEF	LDT1	7.0850e-003	0.01
tblVehicleEF	LDT1	0.09	0.02
tblVehicleEF	LDT1	1.40	1.43
tblVehicleEF	LDT1	2.52	3.59
tblVehicleEF	LDT1	316.46	322.01
tblVehicleEF	LDT1	66.26	71.41
tblVehicleEF	LDT1	0.13	0.15
tblVehicleEF	LDT1	0.31	0.21
tblVehicleEF	LDT1	2.2070e-003	2.7410e-003
tblVehicleEF	LDT1	2.8840e-003	3.7570e-003
tblVehicleEF	LDT1	2.0310e-003	2.5250e-003
tblVehicleEF	LDT1	2.6520e-003	3.4550e-003
tblVehicleEF	LDT1	0.21	0.20
tblVehicleEF	LDT1	0.28	0.35

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

tblVehicleEF	LDT1	0.14	0.13
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.12	0.22
tblVehicleEF	LDT1	0.46	0.25
tblVehicleEF	LDT1	3.1320e-003	3.2380e-003
tblVehicleEF	LDT1	6.5600e-004	7.7700e-004
tblVehicleEF	LDT1	0.21	0.20
tblVehicleEF	LDT1	0.28	0.35
tblVehicleEF	LDT1	0.14	0.13
tblVehicleEF	LDT1	0.05	0.04
tblVehicleEF	LDT1	0.12	0.22
tblVehicleEF	LDT1	0.50	0.27
tblVehicleEF	LDT1	8.1600e-003	0.01
tblVehicleEF	LDT1	0.07	0.02
tblVehicleEF	LDT1	1.72	1.74
tblVehicleEF	LDT1	2.09	2.95
tblVehicleEF	LDT1	343.81	352.74
tblVehicleEF	LDT1	65.30	71.41
tblVehicleEF	LDT1	0.12	0.14
tblVehicleEF	LDT1	0.29	0.19
tblVehicleEF	LDT1	2.2070e-003	2.7410e-003
tblVehicleEF	LDT1	2.8840e-003	3.7570e-003
tblVehicleEF	LDT1	2.0310e-003	2.5250e-003
tblVehicleEF	LDT1	2.6520e-003	3.4550e-003
tblVehicleEF	LDT1	0.51	0.48
tblVehicleEF	LDT1	0.36	0.45
tblVehicleEF	LDT1	0.30	0.27
tblVehicleEF	LDT1	0.04	0.03
tblVehicleEF	LDT1	0.12	0.21

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

tblVehicleEF	LDT1	0.38	0.21
tblVehicleEF	LDT1	3.4020e-003	3.5500e-003
tblVehicleEF	LDT1	6.4600e-004	7.6600e-004
tblVehicleEF	LDT1	0.51	0.48
tblVehicleEF	LDT1	0.36	0.45
tblVehicleEF	LDT1	0.30	0.27
tblVehicleEF	LDT1	0.05	0.05
tblVehicleEF	LDT1	0.12	0.21
tblVehicleEF	LDT1	0.41	0.23
tblVehicleEF	LDT1	6.6130e-003	0.01
tblVehicleEF	LDT1	0.10	0.02
tblVehicleEF	LDT1	1.31	1.35
tblVehicleEF	LDT1	3.09	4.41
tblVehicleEF	LDT1	306.22	310.62
tblVehicleEF	LDT1	67.43	71.41
tblVehicleEF	LDT1	0.14	0.17
tblVehicleEF	LDT1	0.34	0.23
tblVehicleEF	LDT1	2.2070e-003	2.7410e-003
tblVehicleEF	LDT1	2.8840e-003	3.7570e-003
tblVehicleEF	LDT1	2.0310e-003	2.5250e-003
tblVehicleEF	LDT1	2.6520e-003	3.4550e-003
tblVehicleEF	LDT1	0.07	0.06
tblVehicleEF	LDT1	0.28	0.36
tblVehicleEF	LDT1	0.05	0.05
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.15	0.26
tblVehicleEF	LDT1	0.54	0.30
tblVehicleEF	LDT1	3.0300e-003	3.1230e-003
tblVehicleEF	LDT1	6.6700e-004	7.9200e-004

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

tblVehicleEF	LDT1	0.07	0.06
tblVehicleEF	LDT1	0.28	0.36
tblVehicleEF	LDT1	0.05	0.05
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.15	0.26
tblVehicleEF	LDT1	0.59	0.33
tblVehicleEF	LDT2	4.5470e-003	6.3650e-003
tblVehicleEF	LDT2	0.08	8.5720e-003
tblVehicleEF	LDT2	0.98	0.79
tblVehicleEF	LDT2	2.89	1.76
tblVehicleEF	LDT2	341.69	364.25
tblVehicleEF	LDT2	71.84	80.67
tblVehicleEF	LDT2	0.10	0.09
tblVehicleEF	LDT2	0.33	0.14
tblVehicleEF	LDT2	1.5510e-003	1.7460e-003
tblVehicleEF	LDT2	1.9710e-003	2.4030e-003
tblVehicleEF	LDT2	1.4270e-003	1.6050e-003
tblVehicleEF	LDT2	1.8130e-003	2.2100e-003
tblVehicleEF	LDT2	0.12	0.07
tblVehicleEF	LDT2	0.17	0.14
tblVehicleEF	LDT2	0.09	0.06
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.08
tblVehicleEF	LDT2	0.37	0.12
tblVehicleEF	LDT2	3.3810e-003	3.6490e-003
tblVehicleEF	LDT2	7.1100e-004	8.3700e-004
tblVehicleEF	LDT2	0.12	0.07
tblVehicleEF	LDT2	0.17	0.14
tblVehicleEF	LDT2	0.09	0.06

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

tblVehicleEF	LDT2	0.03	0.02
tblVehicleEF	LDT2	0.07	0.08
tblVehicleEF	LDT2	0.41	0.13
tblVehicleEF	LDT2	5.2640e-003	7.3160e-003
tblVehicleEF	LDT2	0.07	7.0670e-003
tblVehicleEF	LDT2	1.22	0.98
tblVehicleEF	LDT2	2.39	1.46
tblVehicleEF	LDT2	368.56	399.84
tblVehicleEF	LDT2	70.84	80.67
tblVehicleEF	LDT2	0.09	0.08
tblVehicleEF	LDT2	0.31	0.13
tblVehicleEF	LDT2	1.5510e-003	1.7460e-003
tblVehicleEF	LDT2	1.9710e-003	2.4030e-003
tblVehicleEF	LDT2	1.4270e-003	1.6050e-003
tblVehicleEF	LDT2	1.8130e-003	2.2100e-003
tblVehicleEF	LDT2	0.28	0.18
tblVehicleEF	LDT2	0.20	0.17
tblVehicleEF	LDT2	0.19	0.12
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.08
tblVehicleEF	LDT2	0.31	0.10
tblVehicleEF	LDT2	3.6460e-003	4.0070e-003
tblVehicleEF	LDT2	7.0100e-004	8.3100e-004
tblVehicleEF	LDT2	0.28	0.18
tblVehicleEF	LDT2	0.20	0.17
tblVehicleEF	LDT2	0.19	0.12
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.07	0.08
tblVehicleEF	LDT2	0.34	0.10

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

tblVehicleEF	LDT2	4.2260e-003	5.9980e-003
tblVehicleEF	LDT2	0.09	0.01
tblVehicleEF	LDT2	0.91	0.73
tblVehicleEF	LDT2	3.53	2.15
tblVehicleEF	LDT2	331.61	351.04
tblVehicleEF	LDT2	73.08	80.67
tblVehicleEF	LDT2	0.11	0.10
tblVehicleEF	LDT2	0.37	0.16
tblVehicleEF	LDT2	1.5510e-003	1.7460e-003
tblVehicleEF	LDT2	1.9710e-003	2.4030e-003
tblVehicleEF	LDT2	1.4270e-003	1.6050e-003
tblVehicleEF	LDT2	1.8130e-003	2.2100e-003
tblVehicleEF	LDT2	0.04	0.02
tblVehicleEF	LDT2	0.17	0.14
tblVehicleEF	LDT2	0.03	0.02
tblVehicleEF	LDT2	0.02	0.01
tblVehicleEF	LDT2	0.08	0.09
tblVehicleEF	LDT2	0.44	0.14
tblVehicleEF	LDT2	3.2810e-003	3.5160e-003
tblVehicleEF	LDT2	7.2300e-004	8.4300e-004
tblVehicleEF	LDT2	0.04	0.02
tblVehicleEF	LDT2	0.17	0.14
tblVehicleEF	LDT2	0.03	0.02
tblVehicleEF	LDT2	0.03	0.02
tblVehicleEF	LDT2	0.08	0.09
tblVehicleEF	LDT2	0.48	0.15
tblVehicleEF	LHD1	4.3500e-003	4.7510e-003
tblVehicleEF	LHD1	0.01	0.02
tblVehicleEF	LHD1	0.01	0.02

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

tblVehicleEF	LHD1	0.16	0.14
tblVehicleEF	LHD1	1.08	1.30
tblVehicleEF	LHD1	0.92	2.33
tblVehicleEF	LHD1	9.60	9.46
tblVehicleEF	LHD1	775.09	688.88
tblVehicleEF	LHD1	9.69	27.50
tblVehicleEF	LHD1	0.09	0.10
tblVehicleEF	LHD1	1.61	2.24
tblVehicleEF	LHD1	0.29	0.91
tblVehicleEF	LHD1	1.0880e-003	1.1040e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	2.2700e-004	8.2800e-004
tblVehicleEF	LHD1	1.0410e-003	1.0570e-003
tblVehicleEF	LHD1	2.5420e-003	2.5780e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	2.0900e-004	7.6100e-004
tblVehicleEF	LHD1	2.9830e-003	3.4300e-003
tblVehicleEF	LHD1	0.08	0.10
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.2590e-003	1.4600e-003
tblVehicleEF	LHD1	0.13	0.16
tblVehicleEF	LHD1	0.22	0.30
tblVehicleEF	LHD1	0.07	0.24
tblVehicleEF	LHD1	9.3000e-005	9.4000e-005
tblVehicleEF	LHD1	7.5330e-003	6.7440e-003
tblVehicleEF	LHD1	9.6000e-005	3.1900e-004
tblVehicleEF	LHD1	2.9830e-003	3.4300e-003
tblVehicleEF	LHD1	0.08	0.10

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

tblVehicleEF	LHD1	0.03	0.02
tblVehicleEF	LHD1	1.2590e-003	1.4600e-003
tblVehicleEF	LHD1	0.16	0.19
tblVehicleEF	LHD1	0.22	0.30
tblVehicleEF	LHD1	0.08	0.26
tblVehicleEF	LHD1	4.3620e-003	4.7510e-003
tblVehicleEF	LHD1	0.01	0.02
tblVehicleEF	LHD1	0.01	0.02
tblVehicleEF	LHD1	0.16	0.14
tblVehicleEF	LHD1	1.11	1.32
tblVehicleEF	LHD1	0.85	2.16
tblVehicleEF	LHD1	9.60	9.46
tblVehicleEF	LHD1	775.13	688.88
tblVehicleEF	LHD1	9.58	27.50
tblVehicleEF	LHD1	0.09	0.10
tblVehicleEF	LHD1	1.52	2.13
tblVehicleEF	LHD1	0.27	0.86
tblVehicleEF	LHD1	1.0880e-003	1.1040e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	2.2700e-004	8.2800e-004
tblVehicleEF	LHD1	1.0410e-003	1.0570e-003
tblVehicleEF	LHD1	2.5420e-003	2.5780e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	2.0900e-004	7.6100e-004
tblVehicleEF	LHD1	7.1460e-003	8.2290e-003
tblVehicleEF	LHD1	0.10	0.12
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	2.6670e-003	3.0590e-003

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

tblVehicleEF	LHD1	0.14	0.16
tblVehicleEF	LHD1	0.22	0.30
tblVehicleEF	LHD1	0.07	0.22
tblVehicleEF	LHD1	9.3000e-005	9.4000e-005
tblVehicleEF	LHD1	7.5340e-003	6.7440e-003
tblVehicleEF	LHD1	9.5000e-005	3.1600e-004
tblVehicleEF	LHD1	7.1460e-003	8.2290e-003
tblVehicleEF	LHD1	0.10	0.12
tblVehicleEF	LHD1	0.03	0.02
tblVehicleEF	LHD1	2.6670e-003	3.0590e-003
tblVehicleEF	LHD1	0.17	0.20
tblVehicleEF	LHD1	0.22	0.30
tblVehicleEF	LHD1	0.07	0.24
tblVehicleEF	LHD1	4.3370e-003	4.7510e-003
tblVehicleEF	LHD1	0.01	0.02
tblVehicleEF	LHD1	0.01	0.02
tblVehicleEF	LHD1	0.16	0.14
tblVehicleEF	LHD1	1.06	1.27
tblVehicleEF	LHD1	1.00	2.54
tblVehicleEF	LHD1	9.60	9.46
tblVehicleEF	LHD1	775.05	688.88
tblVehicleEF	LHD1	9.83	27.50
tblVehicleEF	LHD1	0.09	0.10
tblVehicleEF	LHD1	1.64	2.29
tblVehicleEF	LHD1	0.31	0.97
tblVehicleEF	LHD1	1.0880e-003	1.1040e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	2.2700e-004	8.2800e-004

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

tblVehicleEF	LHD1	1.0410e-003	1.0570e-003
tblVehicleEF	LHD1	2.5420e-003	2.5780e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	2.0900e-004	7.6100e-004
tblVehicleEF	LHD1	9.7300e-004	1.1420e-003
tblVehicleEF	LHD1	0.08	0.10
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	5.2600e-004	6.1800e-004
tblVehicleEF	LHD1	0.13	0.16
tblVehicleEF	LHD1	0.24	0.33
tblVehicleEF	LHD1	0.08	0.25
tblVehicleEF	LHD1	9.3000e-005	9.4000e-005
tblVehicleEF	LHD1	7.5330e-003	6.7430e-003
tblVehicleEF	LHD1	9.7000e-005	3.2300e-004
tblVehicleEF	LHD1	9.7300e-004	1.1420e-003
tblVehicleEF	LHD1	0.08	0.10
tblVehicleEF	LHD1	0.03	0.02
tblVehicleEF	LHD1	5.2600e-004	6.1800e-004
tblVehicleEF	LHD1	0.16	0.19
tblVehicleEF	LHD1	0.24	0.33
tblVehicleEF	LHD1	0.08	0.28
tblVehicleEF	LHD2	3.1110e-003	3.4570e-003
tblVehicleEF	LHD2	8.3200e-003	9.7920e-003
tblVehicleEF	LHD2	8.8640e-003	8.1820e-003
tblVehicleEF	LHD2	0.13	0.12
tblVehicleEF	LHD2	0.79	0.76
tblVehicleEF	LHD2	0.58	1.19
tblVehicleEF	LHD2	14.88	14.55
tblVehicleEF	LHD2	791.60	722.33

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

tblVehicleEF	LHD2	7.35	23.26
tblVehicleEF	LHD2	0.12	0.12
tblVehicleEF	LHD2	1.56	1.55
tblVehicleEF	LHD2	0.19	0.52
tblVehicleEF	LHD2	1.4590e-003	1.3400e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.1500e-004	3.8200e-004
tblVehicleEF	LHD2	1.3960e-003	1.2820e-003
tblVehicleEF	LHD2	2.7100e-003	2.7010e-003
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.0600e-004	3.5100e-004
tblVehicleEF	LHD2	1.5940e-003	1.4160e-003
tblVehicleEF	LHD2	0.05	0.04
tblVehicleEF	LHD2	0.02	0.01
tblVehicleEF	LHD2	6.9700e-004	6.4400e-004
tblVehicleEF	LHD2	0.13	0.13
tblVehicleEF	LHD2	0.11	0.09
tblVehicleEF	LHD2	0.04	0.11
tblVehicleEF	LHD2	7.6340e-003	7.0210e-003
tblVehicleEF	LHD2	7.3000e-005	2.5400e-004
tblVehicleEF	LHD2	1.5940e-003	1.4160e-003
tblVehicleEF	LHD2	0.05	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	6.9700e-004	6.4400e-004
tblVehicleEF	LHD2	0.16	0.15
tblVehicleEF	LHD2	0.11	0.09
tblVehicleEF	LHD2	0.05	0.12
tblVehicleEF	LHD2	3.1190e-003	3.4570e-003

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

tblVehicleEF	LHD2	8.4030e-003	9.9340e-003
tblVehicleEF	LHD2	8.3990e-003	7.7440e-003
tblVehicleEF	LHD2	0.13	0.12
tblVehicleEF	LHD2	0.80	0.76
tblVehicleEF	LHD2	0.54	1.11
tblVehicleEF	LHD2	14.88	14.55
tblVehicleEF	LHD2	791.61	722.33
tblVehicleEF	LHD2	7.27	23.26
tblVehicleEF	LHD2	0.12	0.12
tblVehicleEF	LHD2	1.48	1.47
tblVehicleEF	LHD2	0.18	0.49
tblVehicleEF	LHD2	1.4590e-003	1.3400e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.1500e-004	3.8200e-004
tblVehicleEF	LHD2	1.3960e-003	1.2820e-003
tblVehicleEF	LHD2	2.7100e-003	2.7010e-003
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.0600e-004	3.5100e-004
tblVehicleEF	LHD2	3.8030e-003	3.3790e-003
tblVehicleEF	LHD2	0.05	0.05
tblVehicleEF	LHD2	0.02	0.01
tblVehicleEF	LHD2	1.4640e-003	1.3320e-003
tblVehicleEF	LHD2	0.13	0.13
tblVehicleEF	LHD2	0.11	0.09
tblVehicleEF	LHD2	0.04	0.10
tblVehicleEF	LHD2	7.6340e-003	7.0210e-003
tblVehicleEF	LHD2	7.2000e-005	2.5300e-004
tblVehicleEF	LHD2	3.8030e-003	3.3790e-003

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

tblVehicleEF	LHD2	0.05	0.05
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.4640e-003	1.3320e-003
tblVehicleEF	LHD2	0.16	0.15
tblVehicleEF	LHD2	0.11	0.09
tblVehicleEF	LHD2	0.05	0.11
tblVehicleEF	LHD2	3.1010e-003	3.4570e-003
tblVehicleEF	LHD2	8.2320e-003	9.6460e-003
tblVehicleEF	LHD2	9.3760e-003	8.6690e-003
tblVehicleEF	LHD2	0.13	0.12
tblVehicleEF	LHD2	0.79	0.75
tblVehicleEF	LHD2	0.63	1.29
tblVehicleEF	LHD2	14.88	14.55
tblVehicleEF	LHD2	791.59	722.33
tblVehicleEF	LHD2	7.43	23.26
tblVehicleEF	LHD2	0.12	0.12
tblVehicleEF	LHD2	1.59	1.58
tblVehicleEF	LHD2	0.20	0.55
tblVehicleEF	LHD2	1.4590e-003	1.3400e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.1500e-004	3.8200e-004
tblVehicleEF	LHD2	1.3960e-003	1.2820e-003
tblVehicleEF	LHD2	2.7100e-003	2.7010e-003
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.0600e-004	3.5100e-004
tblVehicleEF	LHD2	5.3400e-004	4.8500e-004
tblVehicleEF	LHD2	0.05	0.04
tblVehicleEF	LHD2	0.02	0.01

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

tblVehicleEF	LHD2	2.9400e-004	2.7400e-004
tblVehicleEF	LHD2	0.13	0.13
tblVehicleEF	LHD2	0.12	0.10
tblVehicleEF	LHD2	0.05	0.12
tblVehicleEF	LHD2	7.6330e-003	7.0210e-003
tblVehicleEF	LHD2	7.4000e-005	2.5600e-004
tblVehicleEF	LHD2	5.3400e-004	4.8500e-004
tblVehicleEF	LHD2	0.05	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	2.9400e-004	2.7400e-004
tblVehicleEF	LHD2	0.15	0.15
tblVehicleEF	LHD2	0.12	0.10
tblVehicleEF	LHD2	0.05	0.13
tblVehicleEF	MCY	0.34	0.44
tblVehicleEF	MCY	0.26	0.16
tblVehicleEF	MCY	21.74	21.76
tblVehicleEF	MCY	8.86	10.02
tblVehicleEF	MCY	216.07	172.60
tblVehicleEF	MCY	62.52	47.34
tblVehicleEF	MCY	1.18	1.18
tblVehicleEF	MCY	0.27	0.32
tblVehicleEF	MCY	1.9030e-003	1.9390e-003
tblVehicleEF	MCY	3.1070e-003	3.7710e-003
tblVehicleEF	MCY	1.7830e-003	1.8170e-003
tblVehicleEF	MCY	2.9320e-003	3.5620e-003
tblVehicleEF	MCY	1.57	1.56
tblVehicleEF	MCY	0.95	0.96
tblVehicleEF	MCY	0.83	0.83
tblVehicleEF	MCY	2.37	2.38

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

tblVehicleEF	MCY	0.55	0.59
tblVehicleEF	MCY	1.95	2.22
tblVehicleEF	MCY	2.1380e-003	2.1500e-003
tblVehicleEF	MCY	6.1900e-004	7.0300e-004
tblVehicleEF	MCY	1.57	1.56
tblVehicleEF	MCY	0.95	0.96
tblVehicleEF	MCY	0.83	0.83
tblVehicleEF	MCY	2.89	2.91
tblVehicleEF	MCY	0.55	0.59
tblVehicleEF	MCY	2.12	2.41
tblVehicleEF	MCY	0.34	0.43
tblVehicleEF	MCY	0.22	0.14
tblVehicleEF	MCY	22.04	22.03
tblVehicleEF	MCY	8.02	9.12
tblVehicleEF	MCY	216.33	172.60
tblVehicleEF	MCY	60.19	47.34
tblVehicleEF	MCY	1.02	1.02
tblVehicleEF	MCY	0.25	0.29
tblVehicleEF	MCY	1.9030e-003	1.9390e-003
tblVehicleEF	MCY	3.1070e-003	3.7710e-003
tblVehicleEF	MCY	1.7830e-003	1.8170e-003
tblVehicleEF	MCY	2.9320e-003	3.5620e-003
tblVehicleEF	MCY	4.00	4.02
tblVehicleEF	MCY	1.46	1.45
tblVehicleEF	MCY	2.14	2.13
tblVehicleEF	MCY	2.30	2.31
tblVehicleEF	MCY	0.54	0.58
tblVehicleEF	MCY	1.65	1.88
tblVehicleEF	MCY	2.1410e-003	2.1520e-003

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

tblVehicleEF	MCY	5.9600e-004	6.7800e-004
tblVehicleEF	MCY	4.00	4.02
tblVehicleEF	MCY	1.46	1.45
tblVehicleEF	MCY	2.14	2.13
tblVehicleEF	MCY	2.82	2.83
tblVehicleEF	MCY	0.54	0.58
tblVehicleEF	MCY	1.80	2.05
tblVehicleEF	MCY	0.36	0.46
tblVehicleEF	MCY	0.30	0.19
tblVehicleEF	MCY	23.44	23.47
tblVehicleEF	MCY	10.30	11.59
tblVehicleEF	MCY	219.21	172.60
tblVehicleEF	MCY	66.14	47.34
tblVehicleEF	MCY	1.28	1.29
tblVehicleEF	MCY	0.29	0.34
tblVehicleEF	MCY	1.9030e-003	1.9390e-003
tblVehicleEF	MCY	3.1070e-003	3.7710e-003
tblVehicleEF	MCY	1.7830e-003	1.8170e-003
tblVehicleEF	MCY	2.9320e-003	3.5620e-003
tblVehicleEF	MCY	0.42	0.42
tblVehicleEF	MCY	0.98	1.00
tblVehicleEF	MCY	0.22	0.22
tblVehicleEF	MCY	2.49	2.50
tblVehicleEF	MCY	0.64	0.69
tblVehicleEF	MCY	2.35	2.66
tblVehicleEF	MCY	2.1690e-003	2.1810e-003
tblVehicleEF	MCY	6.5400e-004	7.4200e-004
tblVehicleEF	MCY	0.42	0.42
tblVehicleEF	MCY	0.98	1.00

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

tblVehicleEF	MCY	0.22	0.22
tblVehicleEF	MCY	3.04	3.05
tblVehicleEF	MCY	0.64	0.69
tblVehicleEF	MCY	2.56	2.89
tblVehicleEF	MDV	5.5130e-003	0.01
tblVehicleEF	MDV	0.10	0.02
tblVehicleEF	MDV	1.09	1.32
tblVehicleEF	MDV	3.47	3.47
tblVehicleEF	MDV	428.75	508.20
tblVehicleEF	MDV	89.75	111.19
tblVehicleEF	MDV	0.12	0.17
tblVehicleEF	MDV	0.41	0.32
tblVehicleEF	MDV	1.5840e-003	1.7620e-003
tblVehicleEF	MDV	1.9970e-003	2.4110e-003
tblVehicleEF	MDV	1.4620e-003	1.6250e-003
tblVehicleEF	MDV	1.8360e-003	2.2170e-003
tblVehicleEF	MDV	0.13	0.11
tblVehicleEF	MDV	0.19	0.22
tblVehicleEF	MDV	0.11	0.09
tblVehicleEF	MDV	0.02	0.03
tblVehicleEF	MDV	0.08	0.13
tblVehicleEF	MDV	0.48	0.27
tblVehicleEF	MDV	4.2390e-003	5.0910e-003
tblVehicleEF	MDV	8.8800e-004	1.1730e-003
tblVehicleEF	MDV	0.13	0.11
tblVehicleEF	MDV	0.19	0.22
tblVehicleEF	MDV	0.11	0.09
tblVehicleEF	MDV	0.03	0.05
tblVehicleEF	MDV	0.08	0.13

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

tblVehicleEF	MDV	0.53	0.29
tblVehicleEF	MDV	6.4030e-003	0.01
tblVehicleEF	MDV	0.08	0.02
tblVehicleEF	MDV	1.35	1.64
tblVehicleEF	MDV	2.86	2.87
tblVehicleEF	MDV	457.46	556.54
tblVehicleEF	MDV	88.52	111.19
tblVehicleEF	MDV	0.11	0.16
tblVehicleEF	MDV	0.39	0.30
tblVehicleEF	MDV	1.5840e-003	1.7620e-003
tblVehicleEF	MDV	1.9970e-003	2.4110e-003
tblVehicleEF	MDV	1.4620e-003	1.6250e-003
tblVehicleEF	MDV	1.8360e-003	2.2170e-003
tblVehicleEF	MDV	0.32	0.27
tblVehicleEF	MDV	0.22	0.26
tblVehicleEF	MDV	0.23	0.19
tblVehicleEF	MDV	0.03	0.04
tblVehicleEF	MDV	0.08	0.13
tblVehicleEF	MDV	0.40	0.22
tblVehicleEF	MDV	4.5230e-003	5.5790e-003
tblVehicleEF	MDV	8.7600e-004	1.1620e-003
tblVehicleEF	MDV	0.32	0.27
tblVehicleEF	MDV	0.22	0.26
tblVehicleEF	MDV	0.23	0.19
tblVehicleEF	MDV	0.04	0.05
tblVehicleEF	MDV	0.08	0.13
tblVehicleEF	MDV	0.44	0.24
tblVehicleEF	MDV	5.1300e-003	0.01
tblVehicleEF	MDV	0.11	0.02

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

tblVehicleEF	MDV	1.01	1.23
tblVehicleEF	MDV	4.25	4.23
tblVehicleEF	MDV	417.95	490.19
tblVehicleEF	MDV	91.28	111.19
tblVehicleEF	MDV	0.13	0.19
tblVehicleEF	MDV	0.46	0.35
tblVehicleEF	MDV	1.5840e-003	1.7620e-003
tblVehicleEF	MDV	1.9970e-003	2.4110e-003
tblVehicleEF	MDV	1.4620e-003	1.6250e-003
tblVehicleEF	MDV	1.8360e-003	2.2170e-003
tblVehicleEF	MDV	0.04	0.04
tblVehicleEF	MDV	0.19	0.22
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.02	0.03
tblVehicleEF	MDV	0.09	0.16
tblVehicleEF	MDV	0.57	0.32
tblVehicleEF	MDV	4.1320e-003	4.9100e-003
tblVehicleEF	MDV	9.0300e-004	1.1870e-003
tblVehicleEF	MDV	0.04	0.04
tblVehicleEF	MDV	0.19	0.22
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.03	0.04
tblVehicleEF	MDV	0.09	0.16
tblVehicleEF	MDV	0.62	0.35
tblVehicleEF	MH	0.01	0.04
tblVehicleEF	MH	0.02	0.03
tblVehicleEF	MH	1.56	2.96
tblVehicleEF	MH	2.14	6.32
tblVehicleEF	MH	1,571.36	1,226.13

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

tblVehicleEF	MH	18.28	57.44
tblVehicleEF	MH	2.01	1.89
tblVehicleEF	MH	0.23	0.90
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.04	0.04
tblVehicleEF	MH	2.6600e-004	1.1840e-003
tblVehicleEF	MH	3.3060e-003	3.2450e-003
tblVehicleEF	MH	0.04	0.04
tblVehicleEF	MH	2.4400e-004	1.0890e-003
tblVehicleEF	MH	1.22	1.49
tblVehicleEF	MH	0.07	0.09
tblVehicleEF	MH	0.33	0.40
tblVehicleEF	MH	0.10	0.13
tblVehicleEF	MH	0.02	0.03
tblVehicleEF	MH	0.10	0.36
tblVehicleEF	MH	0.02	0.01
tblVehicleEF	MH	1.8100e-004	6.8500e-004
tblVehicleEF	MH	1.22	1.49
tblVehicleEF	MH	0.07	0.09
tblVehicleEF	MH	0.33	0.40
tblVehicleEF	MH	0.13	0.18
tblVehicleEF	MH	0.02	0.03
tblVehicleEF	MH	0.11	0.40
tblVehicleEF	MH	0.01	0.04
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	1.61	3.08
tblVehicleEF	MH	1.94	5.69
tblVehicleEF	MH	1,571.45	1,226.13
tblVehicleEF	MH	17.94	57.44

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

tblVehicleEF	MH	1.88	1.75
tblVehicleEF	MH	0.22	0.85
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.04	0.04
tblVehicleEF	MH	2.6600e-004	1.1840e-003
tblVehicleEF	MH	3.3060e-003	3.2450e-003
tblVehicleEF	MH	0.04	0.04
tblVehicleEF	MH	2.4400e-004	1.0890e-003
tblVehicleEF	MH	2.94	3.63
tblVehicleEF	MH	0.09	0.11
tblVehicleEF	MH	0.69	0.84
tblVehicleEF	MH	0.10	0.14
tblVehicleEF	MH	0.02	0.03
tblVehicleEF	MH	0.09	0.34
tblVehicleEF	MH	0.02	0.01
tblVehicleEF	MH	1.7800e-004	6.7400e-004
tblVehicleEF	MH	2.94	3.63
tblVehicleEF	MH	0.09	0.11
tblVehicleEF	MH	0.69	0.84
tblVehicleEF	MH	0.13	0.19
tblVehicleEF	MH	0.02	0.03
tblVehicleEF	MH	0.10	0.37
tblVehicleEF	MH	0.01	0.04
tblVehicleEF	MH	0.02	0.03
tblVehicleEF	MH	1.50	2.84
tblVehicleEF	MH	2.37	7.07
tblVehicleEF	MH	1,571.26	1,226.13
tblVehicleEF	MH	18.67	57.44
tblVehicleEF	MH	2.06	1.95

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

tblVehicleEF	MH	0.25	0.96
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.04	0.04
tblVehicleEF	MH	2.6600e-004	1.1840e-003
tblVehicleEF	MH	3.3060e-003	3.2450e-003
tblVehicleEF	MH	0.04	0.04
tblVehicleEF	MH	2.4400e-004	1.0890e-003
tblVehicleEF	MH	0.39	0.48
tblVehicleEF	MH	0.08	0.10
tblVehicleEF	MH	0.16	0.20
tblVehicleEF	MH	0.10	0.13
tblVehicleEF	MH	0.02	0.03
tblVehicleEF	MH	0.10	0.39
tblVehicleEF	MH	0.02	0.01
tblVehicleEF	MH	1.8500e-004	6.9700e-004
tblVehicleEF	MH	0.39	0.48
tblVehicleEF	MH	0.08	0.10
tblVehicleEF	MH	0.16	0.20
tblVehicleEF	MH	0.13	0.18
tblVehicleEF	MH	0.02	0.03
tblVehicleEF	MH	0.11	0.43
tblVehicleEF	MHD	2.7750e-003	0.02
tblVehicleEF	MHD	6.1670e-003	5.7720e-003
tblVehicleEF	MHD	7.3410e-003	0.06
tblVehicleEF	MHD	0.36	0.37
tblVehicleEF	MHD	0.50	0.42
tblVehicleEF	MHD	0.90	4.59
tblVehicleEF	MHD	83.25	186.77
tblVehicleEF	MHD	1,131.89	1,206.62

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

tblVehicleEF	MHD	7.14	38.99
tblVehicleEF	MHD	0.63	0.88
tblVehicleEF	MHD	2.28	1.78
tblVehicleEF	MHD	1.46	14.28
tblVehicleEF	MHD	1.5550e-003	6.7690e-003
tblVehicleEF	MHD	0.04	0.01
tblVehicleEF	MHD	1.0000e-004	6.7700e-004
tblVehicleEF	MHD	1.4880e-003	6.4760e-003
tblVehicleEF	MHD	0.04	0.01
tblVehicleEF	MHD	9.2000e-005	6.2200e-004
tblVehicleEF	MHD	6.7700e-004	1.2750e-003
tblVehicleEF	MHD	0.02	0.04
tblVehicleEF	MHD	0.02	0.04
tblVehicleEF	MHD	2.8200e-004	5.3300e-004
tblVehicleEF	MHD	0.11	0.08
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.04	0.27
tblVehicleEF	MHD	7.8900e-004	1.7900e-003
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	7.1000e-005	4.7000e-004
tblVehicleEF	MHD	6.7700e-004	1.2750e-003
tblVehicleEF	MHD	0.02	0.04
tblVehicleEF	MHD	0.02	0.05
tblVehicleEF	MHD	2.8200e-004	5.3300e-004
tblVehicleEF	MHD	0.12	0.09
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.04	0.30
tblVehicleEF	MHD	2.6170e-003	0.02
tblVehicleEF	MHD	6.2190e-003	5.8610e-003

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

tblVehicleEF	MHD	6.9600e-003	0.05
tblVehicleEF	MHD	0.30	0.26
tblVehicleEF	MHD	0.50	0.43
tblVehicleEF	MHD	0.83	4.25
tblVehicleEF	MHD	84.16	197.95
tblVehicleEF	MHD	1,131.90	1,206.62
tblVehicleEF	MHD	7.03	38.99
tblVehicleEF	MHD	0.63	0.91
tblVehicleEF	MHD	2.16	1.69
tblVehicleEF	MHD	1.45	14.24
tblVehicleEF	MHD	1.3140e-003	5.7070e-003
tblVehicleEF	MHD	0.04	0.01
tblVehicleEF	MHD	1.0000e-004	6.7700e-004
tblVehicleEF	MHD	1.2570e-003	5.4600e-003
tblVehicleEF	MHD	0.04	0.01
tblVehicleEF	MHD	9.2000e-005	6.2200e-004
tblVehicleEF	MHD	1.6530e-003	3.1270e-003
tblVehicleEF	MHD	0.02	0.05
tblVehicleEF	MHD	0.02	0.04
tblVehicleEF	MHD	6.2700e-004	1.1790e-003
tblVehicleEF	MHD	0.11	0.08
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.04	0.26
tblVehicleEF	MHD	7.9700e-004	1.8960e-003
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	7.0000e-005	4.6400e-004
tblVehicleEF	MHD	1.6530e-003	3.1270e-003
tblVehicleEF	MHD	0.02	0.05
tblVehicleEF	MHD	0.02	0.05

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

tblVehicleEF	MHD	6.2700e-004	1.1790e-003
tblVehicleEF	MHD	0.13	0.09
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.04	0.28
tblVehicleEF	MHD	2.9310e-003	0.02
tblVehicleEF	MHD	6.1110e-003	5.6780e-003
tblVehicleEF	MHD	7.7760e-003	0.06
tblVehicleEF	MHD	0.42	0.49
tblVehicleEF	MHD	0.49	0.42
tblVehicleEF	MHD	0.98	5.00
tblVehicleEF	MHD	82.10	171.56
tblVehicleEF	MHD	1,131.87	1,206.62
tblVehicleEF	MHD	7.28	38.99
tblVehicleEF	MHD	0.63	0.84
tblVehicleEF	MHD	2.32	1.82
tblVehicleEF	MHD	1.46	14.32
tblVehicleEF	MHD	1.8870e-003	8.2370e-003
tblVehicleEF	MHD	0.04	0.01
tblVehicleEF	MHD	1.0000e-004	6.7700e-004
tblVehicleEF	MHD	1.8060e-003	7.8810e-003
tblVehicleEF	MHD	0.04	0.01
tblVehicleEF	MHD	9.2000e-005	6.2200e-004
tblVehicleEF	MHD	2.1000e-004	4.0000e-004
tblVehicleEF	MHD	0.02	0.04
tblVehicleEF	MHD	0.02	0.04
tblVehicleEF	MHD	1.1000e-004	2.0900e-004
tblVehicleEF	MHD	0.11	0.08
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.04	0.29

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

tblVehicleEF	MHD	7.7800e-004	1.6460e-003
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	7.2000e-005	4.7700e-004
tblVehicleEF	MHD	2.1000e-004	4.0000e-004
tblVehicleEF	MHD	0.02	0.04
tblVehicleEF	MHD	0.02	0.05
tblVehicleEF	MHD	1.1000e-004	2.0900e-004
tblVehicleEF	MHD	0.12	0.09
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.05	0.32
tblVehicleEF	OBUS	8.5240e-003	0.01
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.58	0.29
tblVehicleEF	OBUS	1.29	0.82
tblVehicleEF	OBUS	2.74	6.58
tblVehicleEF	OBUS	91.20	129.12
tblVehicleEF	OBUS	1,522.88	1,328.61
tblVehicleEF	OBUS	20.28	67.29
tblVehicleEF	OBUS	0.44	0.61
tblVehicleEF	OBUS	1.70	1.78
tblVehicleEF	OBUS	0.75	3.06
tblVehicleEF	OBUS	7.9400e-004	1.3600e-004
tblVehicleEF	OBUS	0.02	7.5500e-003
tblVehicleEF	OBUS	2.1500e-004	8.7700e-004
tblVehicleEF	OBUS	7.5900e-004	1.3000e-004
tblVehicleEF	OBUS	0.02	7.2040e-003
tblVehicleEF	OBUS	1.9800e-004	8.0700e-004
tblVehicleEF	OBUS	3.0510e-003	2.4510e-003

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

tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.06	0.04
tblVehicleEF	OBUS	9.7900e-004	8.0600e-004
tblVehicleEF	OBUS	0.10	0.08
tblVehicleEF	OBUS	0.09	0.04
tblVehicleEF	OBUS	0.13	0.40
tblVehicleEF	OBUS	8.6800e-004	1.2440e-003
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	2.0100e-004	7.8800e-004
tblVehicleEF	OBUS	3.0510e-003	2.4510e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.07	0.06
tblVehicleEF	OBUS	9.7900e-004	8.0600e-004
tblVehicleEF	OBUS	0.12	0.10
tblVehicleEF	OBUS	0.09	0.04
tblVehicleEF	OBUS	0.14	0.44
tblVehicleEF	OBUS	8.5870e-003	0.01
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.57	0.27
tblVehicleEF	OBUS	1.33	0.84
tblVehicleEF	OBUS	2.48	5.97
tblVehicleEF	OBUS	91.05	135.81
tblVehicleEF	OBUS	1,522.94	1,328.61
tblVehicleEF	OBUS	19.85	67.29
tblVehicleEF	OBUS	0.43	0.63
tblVehicleEF	OBUS	1.59	1.68
tblVehicleEF	OBUS	0.74	3.00
tblVehicleEF	OBUS	6.7400e-004	1.1500e-004

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

tblVehicleEF	OBUS	0.02	7.5500e-003
tblVehicleEF	OBUS	2.1500e-004	8.7700e-004
tblVehicleEF	OBUS	6.4500e-004	1.1000e-004
tblVehicleEF	OBUS	0.02	7.2040e-003
tblVehicleEF	OBUS	1.9800e-004	8.0700e-004
tblVehicleEF	OBUS	7.2830e-003	5.8650e-003
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.06	0.04
tblVehicleEF	OBUS	2.0130e-003	1.6480e-003
tblVehicleEF	OBUS	0.10	0.08
tblVehicleEF	OBUS	0.08	0.04
tblVehicleEF	OBUS	0.12	0.37
tblVehicleEF	OBUS	8.6700e-004	1.3080e-003
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	1.9600e-004	7.7800e-004
tblVehicleEF	OBUS	7.2830e-003	5.8650e-003
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.07	0.06
tblVehicleEF	OBUS	2.0130e-003	1.6480e-003
tblVehicleEF	OBUS	0.13	0.10
tblVehicleEF	OBUS	0.08	0.04
tblVehicleEF	OBUS	0.13	0.41
tblVehicleEF	OBUS	8.4460e-003	0.01
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	0.03	0.04
tblVehicleEF	OBUS	0.60	0.31
tblVehicleEF	OBUS	1.25	0.80
tblVehicleEF	OBUS	3.03	7.29
tblVehicleEF	OBUS	91.41	119.88

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

tblVehicleEF	OBUS	1,522.81	1,328.61
tblVehicleEF	OBUS	20.77	67.29
tblVehicleEF	OBUS	0.45	0.58
tblVehicleEF	OBUS	1.75	1.83
tblVehicleEF	OBUS	0.77	3.13
tblVehicleEF	OBUS	9.5900e-004	1.6600e-004
tblVehicleEF	OBUS	0.02	7.5500e-003
tblVehicleEF	OBUS	2.1500e-004	8.7700e-004
tblVehicleEF	OBUS	9.1700e-004	1.5900e-004
tblVehicleEF	OBUS	0.02	7.2040e-003
tblVehicleEF	OBUS	1.9800e-004	8.0700e-004
tblVehicleEF	OBUS	1.0210e-003	8.3100e-004
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.05	0.04
tblVehicleEF	OBUS	4.8500e-004	3.9800e-004
tblVehicleEF	OBUS	0.09	0.08
tblVehicleEF	OBUS	0.09	0.05
tblVehicleEF	OBUS	0.14	0.43
tblVehicleEF	OBUS	8.7000e-004	1.1560e-003
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	2.0600e-004	8.0000e-004
tblVehicleEF	OBUS	1.0210e-003	8.3100e-004
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.07	0.06
tblVehicleEF	OBUS	4.8500e-004	3.9800e-004
tblVehicleEF	OBUS	0.12	0.10
tblVehicleEF	OBUS	0.09	0.05
tblVehicleEF	OBUS	0.15	0.47
tblVehicleEF	SBUS	0.03	0.83

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

tblVehicleEF	SBUS	9.5190e-003	0.02
tblVehicleEF	SBUS	2.9200e-003	0.08
tblVehicleEF	SBUS	1.31	5.19
tblVehicleEF	SBUS	0.83	0.94
tblVehicleEF	SBUS	0.46	6.00
tblVehicleEF	SBUS	336.15	1,284.67
tblVehicleEF	SBUS	1,104.85	1,133.49
tblVehicleEF	SBUS	2.17	34.00
tblVehicleEF	SBUS	3.62	12.16
tblVehicleEF	SBUS	5.75	4.81
tblVehicleEF	SBUS	0.77	15.64
tblVehicleEF	SBUS	4.4410e-003	0.01
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.04	0.03
tblVehicleEF	SBUS	2.5000e-005	4.9400e-004
tblVehicleEF	SBUS	4.2490e-003	0.01
tblVehicleEF	SBUS	2.8180e-003	2.7490e-003
tblVehicleEF	SBUS	0.04	0.03
tblVehicleEF	SBUS	2.3000e-005	4.5400e-004
tblVehicleEF	SBUS	1.0060e-003	4.1710e-003
tblVehicleEF	SBUS	6.8370e-003	0.03
tblVehicleEF	SBUS	0.13	0.61
tblVehicleEF	SBUS	2.7800e-004	1.3020e-003
tblVehicleEF	SBUS	0.11	0.12
tblVehicleEF	SBUS	0.02	0.01
tblVehicleEF	SBUS	0.02	0.30
tblVehicleEF	SBUS	3.1880e-003	0.01
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	2.2000e-005	4.4300e-004

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

tblVehicleEF	SBUS	1.0060e-003	4.1710e-003
tblVehicleEF	SBUS	6.8370e-003	0.03
tblVehicleEF	SBUS	0.18	0.87
tblVehicleEF	SBUS	2.7800e-004	1.3020e-003
tblVehicleEF	SBUS	0.14	0.15
tblVehicleEF	SBUS	0.02	0.01
tblVehicleEF	SBUS	0.02	0.33
tblVehicleEF	SBUS	0.03	0.83
tblVehicleEF	SBUS	9.6950e-003	0.02
tblVehicleEF	SBUS	2.3440e-003	0.07
tblVehicleEF	SBUS	1.26	5.04
tblVehicleEF	SBUS	0.85	0.96
tblVehicleEF	SBUS	0.31	4.04
tblVehicleEF	SBUS	346.47	1,351.03
tblVehicleEF	SBUS	1,104.88	1,133.49
tblVehicleEF	SBUS	1.92	34.00
tblVehicleEF	SBUS	3.71	12.55
tblVehicleEF	SBUS	5.45	4.56
tblVehicleEF	SBUS	0.77	15.60
tblVehicleEF	SBUS	3.7520e-003	0.01
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.04	0.03
tblVehicleEF	SBUS	2.5000e-005	4.9400e-004
tblVehicleEF	SBUS	3.5890e-003	0.01
tblVehicleEF	SBUS	2.8180e-003	2.7490e-003
tblVehicleEF	SBUS	0.04	0.03
tblVehicleEF	SBUS	2.3000e-005	4.5400e-004
tblVehicleEF	SBUS	2.4450e-003	0.01
tblVehicleEF	SBUS	7.9720e-003	0.03

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

tblVehicleEF	SBUS	0.13	0.61
tblVehicleEF	SBUS	5.9900e-004	2.6730e-003
tblVehicleEF	SBUS	0.11	0.12
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.01	0.24
tblVehicleEF	SBUS	3.2850e-003	0.01
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	1.9000e-005	4.1100e-004
tblVehicleEF	SBUS	2.4450e-003	0.01
tblVehicleEF	SBUS	7.9720e-003	0.03
tblVehicleEF	SBUS	0.18	0.87
tblVehicleEF	SBUS	5.9900e-004	2.6730e-003
tblVehicleEF	SBUS	0.14	0.15
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.26
tblVehicleEF	SBUS	0.03	0.83
tblVehicleEF	SBUS	9.3440e-003	0.02
tblVehicleEF	SBUS	3.4810e-003	0.10
tblVehicleEF	SBUS	1.37	5.40
tblVehicleEF	SBUS	0.81	0.91
tblVehicleEF	SBUS	0.62	8.14
tblVehicleEF	SBUS	321.90	1,193.02
tblVehicleEF	SBUS	1,104.81	1,133.49
tblVehicleEF	SBUS	2.44	34.00
tblVehicleEF	SBUS	3.50	11.62
tblVehicleEF	SBUS	5.87	4.91
tblVehicleEF	SBUS	0.77	15.67
tblVehicleEF	SBUS	5.3930e-003	0.02
tblVehicleEF	SBUS	0.01	0.01

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

tblVehicleEF	SBUS	0.04	0.03
tblVehicleEF	SBUS	2.5000e-005	4.9400e-004
tblVehicleEF	SBUS	5.1600e-003	0.01
tblVehicleEF	SBUS	2.8180e-003	2.7490e-003
tblVehicleEF	SBUS	0.04	0.03
tblVehicleEF	SBUS	2.3000e-005	4.5400e-004
tblVehicleEF	SBUS	3.3500e-004	1.4570e-003
tblVehicleEF	SBUS	6.8640e-003	0.03
tblVehicleEF	SBUS	0.13	0.62
tblVehicleEF	SBUS	1.3200e-004	6.4200e-004
tblVehicleEF	SBUS	0.11	0.12
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.02	0.36
tblVehicleEF	SBUS	3.0530e-003	0.01
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	2.4000e-005	4.7900e-004
tblVehicleEF	SBUS	3.3500e-004	1.4570e-003
tblVehicleEF	SBUS	6.8640e-003	0.03
tblVehicleEF	SBUS	0.18	0.88
tblVehicleEF	SBUS	1.3200e-004	6.4200e-004
tblVehicleEF	SBUS	0.14	0.15
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.02	0.39
tblVehicleEF	UBUS	2.67	1.46
tblVehicleEF	UBUS	0.03	0.07
tblVehicleEF	UBUS	20.15	8.09
tblVehicleEF	UBUS	2.08	13.12
tblVehicleEF	UBUS	1,706.34	1,941.71
tblVehicleEF	UBUS	23.85	123.84

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

tblVehicleEF	UBUS	0.52	7.29
tblVehicleEF	UBUS	0.22	14.18
tblVehicleEF	UBUS	0.10	0.55
tblVehicleEF	UBUS	0.02	0.01
tblVehicleEF	UBUS	3.2850e-003	0.11
tblVehicleEF	UBUS	1.9600e-004	1.1330e-003
tblVehicleEF	UBUS	0.04	0.23
tblVehicleEF	UBUS	5.2150e-003	3.0000e-003
tblVehicleEF	UBUS	3.1240e-003	0.11
tblVehicleEF	UBUS	1.8000e-004	1.0420e-003
tblVehicleEF	UBUS	1.4830e-003	7.5650e-003
tblVehicleEF	UBUS	0.01	0.09
tblVehicleEF	UBUS	6.9400e-004	2.9570e-003
tblVehicleEF	UBUS	0.05	0.61
tblVehicleEF	UBUS	2.9300e-003	0.02
tblVehicleEF	UBUS	0.12	0.98
tblVehicleEF	UBUS	7.6390e-003	0.01
tblVehicleEF	UBUS	2.3600e-004	1.4740e-003
tblVehicleEF	UBUS	1.4830e-003	7.5650e-003
tblVehicleEF	UBUS	0.01	0.09
tblVehicleEF	UBUS	6.9400e-004	2.9570e-003
tblVehicleEF	UBUS	2.74	2.13
tblVehicleEF	UBUS	2.9300e-003	0.02
tblVehicleEF	UBUS	0.13	1.07
tblVehicleEF	UBUS	2.67	1.46
tblVehicleEF	UBUS	0.03	0.06
tblVehicleEF	UBUS	20.16	8.17
tblVehicleEF	UBUS	1.69	10.58
tblVehicleEF	UBUS	1,706.34	1,941.71

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

tblVehicleEF	UBUS	23.19	123.84
tblVehicleEF	UBUS	0.51	6.89
tblVehicleEF	UBUS	0.21	14.07
tblVehicleEF	UBUS	0.10	0.55
tblVehicleEF	UBUS	0.02	0.01
tblVehicleEF	UBUS	3.2850e-003	0.11
tblVehicleEF	UBUS	1.9600e-004	1.1330e-003
tblVehicleEF	UBUS	0.04	0.23
tblVehicleEF	UBUS	5.2150e-003	3.0000e-003
tblVehicleEF	UBUS	3.1240e-003	0.11
tblVehicleEF	UBUS	1.8000e-004	1.0420e-003
tblVehicleEF	UBUS	3.5190e-003	0.02
tblVehicleEF	UBUS	0.02	0.12
tblVehicleEF	UBUS	1.5090e-003	6.4050e-003
tblVehicleEF	UBUS	0.05	0.62
tblVehicleEF	UBUS	2.7910e-003	0.02
tblVehicleEF	UBUS	0.11	0.86
tblVehicleEF	UBUS	7.6390e-003	0.01
tblVehicleEF	UBUS	2.2900e-004	1.4310e-003
tblVehicleEF	UBUS	3.5190e-003	0.02
tblVehicleEF	UBUS	0.02	0.12
tblVehicleEF	UBUS	1.5090e-003	6.4050e-003
tblVehicleEF	UBUS	2.74	2.14
tblVehicleEF	UBUS	2.7910e-003	0.02
tblVehicleEF	UBUS	0.12	0.94
tblVehicleEF	UBUS	2.67	1.45
tblVehicleEF	UBUS	0.03	0.08
tblVehicleEF	UBUS	20.15	8.01
tblVehicleEF	UBUS	2.53	16.07

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

tblVehicleEF	UBUS	1,706.33	1,941.71
tblVehicleEF	UBUS	24.61	123.84
tblVehicleEF	UBUS	0.52	7.45
tblVehicleEF	UBUS	0.23	14.30
tblVehicleEF	UBUS	0.10	0.55
tblVehicleEF	UBUS	0.02	0.01
tblVehicleEF	UBUS	3.2850e-003	0.11
tblVehicleEF	UBUS	1.9600e-004	1.1330e-003
tblVehicleEF	UBUS	0.04	0.23
tblVehicleEF	UBUS	5.2150e-003	3.0000e-003
tblVehicleEF	UBUS	3.1240e-003	0.11
tblVehicleEF	UBUS	1.8000e-004	1.0420e-003
tblVehicleEF	UBUS	5.0600e-004	2.6700e-003
tblVehicleEF	UBUS	0.01	0.10
tblVehicleEF	UBUS	3.1800e-004	1.4080e-003
tblVehicleEF	UBUS	0.05	0.60
tblVehicleEF	UBUS	3.5990e-003	0.02
tblVehicleEF	UBUS	0.13	1.11
tblVehicleEF	UBUS	7.6390e-003	0.01
tblVehicleEF	UBUS	2.4300e-004	1.5250e-003
tblVehicleEF	UBUS	5.0600e-004	2.6700e-003
tblVehicleEF	UBUS	0.01	0.10
tblVehicleEF	UBUS	3.1800e-004	1.4080e-003
tblVehicleEF	UBUS	2.74	2.12
tblVehicleEF	UBUS	3.5990e-003	0.02
tblVehicleEF	UBUS	0.15	1.21
tblVehicleTrips	ST_TR	2.21	2.40
tblVehicleTrips	ST_TR	2.12	0.07
tblVehicleTrips	SU_TR	0.70	2.40

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

tblVehicleTrips	SU_TR	2.12	0.00
tblVehicleTrips	WD_TR	9.74	2.40
tblVehicleTrips	WD_TR	2.12	0.00
tblWater	AerobicPercent	87.46	0.00
tblWater	AnaDigestCombDigestGasPercent	100.00	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	IndoorWaterUseRate	6,736,312.50	0.00
tblWater	OutdoorWaterUseRate	272,333.97	0.00
tblWater	SepticTankPercent	10.33	100.00

2.0 Emissions Summary

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

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	3.2246	34.9616	19.1386	0.0420	12.7882	1.5486	14.3368	6.6961	1.4247	8.1209	0.0000	4,066.7098	4,066.7098	1.3161	0.0108	4,100.7425
2023	2.0482	19.1661	18.9698	0.0360	0.0941	0.8878	0.9818	0.0118	0.8407	0.8524	0.0000	3,426.3546	3,426.3546	0.7270	0.0104	3,447.6305
Maximum	**3.2246**	**34.9616**	**19.1386**	**0.0420**	**12.7882**	**1.5486**	**14.3368**	**6.6961**	**1.4247**	**8.1209**	**0.0000**	**4,066.7098**	**4,066.7098**	**1.3161**	**0.0108**	**4,100.7425**

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	0.9850	13.6086	25.0553	0.0420	5.8786	0.2159	5.9471	3.0263	0.2047	3.0948	0.0000	4,066.7098	4,066.7098	1.3161	0.0108	4,100.7425
2023	0.9565	13.4077	22.3284	0.0360	0.0627	0.1944	0.2570	8.6400e-003	0.1849	0.1935	0.0000	3,426.3546	3,426.3546	0.7270	0.0104	3,447.6305
Maximum	**0.9850**	**13.6086**	**25.0553**	**0.0420**	**5.8786**	**0.2159**	**5.9471**	**3.0263**	**0.2047**	**3.0948**	**0.0000**	**4,066.7098**	**4,066.7098**	**1.3161**	**0.0108**	**4,100.7425**

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**63.18**	**50.09**	**-24.34**	**0.00**	**53.88**	**83.16**	**59.50**	**54.76**	**82.81**	**63.35**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.7978	3.0000e-005	3.2300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		6.9200e-003	6.9200e-003	2.0000e-005		7.3800e-003
Energy	2.2000e-003	0.0200	0.0168	1.2000e-004		1.5200e-003	1.5200e-003		1.5200e-003	1.5200e-003		23.9683	23.9683	4.6000e-004	4.4000e-004	24.1107
Mobile	0.0176	0.3529	0.1625	1.2400e-003	0.0535	1.0600e-003	0.0546	0.0144	1.0000e-003	0.0154		128.1686	128.1686	9.8700e-003	0.0125	132.1476
Offroad	0.3730	4.1843	1.8923	5.7700e-003		0.1737	0.1737		0.1598	0.1598	0.0000	558.8304	558.8304	0.1807		563.3488
Total	**1.1906**	**4.5572**	**2.0748**	**7.1300e-003**	**0.0535**	**0.1763**	**0.2298**	**0.0144**	**0.1624**	**0.1767**	**0.0000**	**710.9742**	**710.9742**	**0.1911**	**0.0130**	**719.6145**

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

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.7978	3.0000e-005	3.2300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		6.9200e-003	6.9200e-003	2.0000e-005		7.3800e-003
Energy	2.2000e-003	0.0200	0.0168	1.2000e-004		1.5200e-003	1.5200e-003		1.5200e-003	1.5200e-003		23.9683	23.9683	4.6000e-004	4.4000e-004	24.1107
Mobile	0.0176	0.3529	0.1625	1.2400e-003	0.0535	1.0600e-003	0.0546	0.0144	1.0000e-003	0.0154		128.1686	128.1686	9.8700e-003	0.0125	132.1476
Offroad	0.3730	4.1843	1.8923	5.7700e-003		0.1737	0.1737		0.1598	0.1598	0.0000	558.8304	558.8304	0.1807		563.3488
Total	**1.1906**	**4.5572**	**2.0748**	**7.1300e-003**	**0.0535**	**0.1763**	**0.2298**	**0.0144**	**0.1624**	**0.1767**	**0.0000**	**710.9742**	**710.9742**	**0.1911**	**0.0130**	**719.6145**

	ROG	NOx	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	PG&E Substation Site Preparation	Site Preparation	6/23/2022	7/22/2022	5	22	
2	PG&E Substation Grading	Grading	7/23/2022	8/23/2022	5	22	
3	PG&E Substation Construction	Building Construction	8/24/2022	1/10/2023	5	100	

Acres of Grading (Site Preparation Phase): 11

North Central Valley Energy Center Project - PG&E Substation Onsite - San Joaquin Valley Unified APCD Air District, Winter

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

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
PG&E Substation Site Preparation	Graders	2	8.00	187	0.41
PG&E Substation Site Preparation	Rubber Tired Loaders	2	8.00	203	0.36
PG&E Substation Site Preparation	Skid Steer Loaders	2	8.00	65	0.37
PG&E Substation Site Preparation	Tractors/Loaders/Backhoes	2	8.00	97	0.37
PG&E Substation Grading	Concrete/Industrial Saws	0	8.00	81	0.73
PG&E Substation Grading	Graders	2	8.00	187	0.41
PG&E Substation Grading	Rollers	2	8.00	80	0.38
PG&E Substation Grading	Rubber Tired Dozers	2	8.00	247	0.40
PG&E Substation Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
PG&E Substation Construction	Cement and Mortar Mixers	2	8.00	9	0.56
PG&E Substation Construction	Cranes	2	8.00	231	0.29
PG&E Substation Construction	Forklifts	2	8.00	89	0.20
PG&E Substation Construction	Pumps	2	8.00	84	0.74
PG&E Substation Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37

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
PG&E Substation Site Preparation	8	40.00	2.00	0.00	0.25	0.25	20.00	LD_Mix	HDT_Mix	HHDT
PG&E Substation Grading	8	40.00	2.00	0.00	0.25	0.25	20.00	LD_Mix	HDT_Mix	HHDT
PG&E Substation Construction	10	40.00	20.00	0.00	0.25	0.25	20.00	LD_Mix	HDT_Mix	HHDT

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

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 PG&E Substation 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					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000
Off-Road	1.8814	21.7736	13.7562	0.0361		0.7866	0.7866		0.7237	0.7237		3,497.1469	3,497.1469	1.1311		3,525.4231
Total	**1.8814**	**21.7736**	**13.7562**	**0.0361**	**0.5303**	**0.7866**	**1.3169**	**0.0573**	**0.7237**	**0.7809**		**3,497.1469**	**3,497.1469**	**1.1311**		**3,525.4231**

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

3.2 PG&E Substation 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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.3800e-003	0.0285	0.0199	5.0000e-005	0.7360	7.0000e-005	0.7361	0.0735	7.0000e-005	0.0736		4.9988	4.9988	8.0000e-005	7.8000e-004	5.2328
Worker	0.0570	0.0276	0.2909	1.4000e-004	7.9900e-003	2.4000e-004	8.2300e-003	2.1700e-003	2.2000e-004	2.3900e-003		14.3969	14.3969	7.0400e-003	3.0100e-003	15.4710
Total	**0.0584**	**0.0561**	**0.3108**	**1.9000e-004**	**0.7440**	**3.1000e-004**	**0.7443**	**0.0757**	**2.9000e-004**	**0.0760**		**19.3957**	**19.3957**	**7.1200e-003**	**3.7900e-003**	**20.7038**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.2386	0.0000	0.2386	0.0258	0.0000	0.0258			0.0000			0.0000
Off-Road	0.6636	11.8478	21.5569	0.0361		0.1474	0.1474		0.1474	0.1474	0.0000	3,497.1469	3,497.1469	1.1311		3,525.4231
Total	**0.6636**	**11.8478**	**21.5569**	**0.0361**	**0.2386**	**0.1474**	**0.3860**	**0.0258**	**0.1474**	**0.1732**	**0.0000**	**3,497.1469**	**3,497.1469**	**1.1311**		**3,525.4231**

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

3.2 PG&E Substation 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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.3800e-003	0.0285	0.0199	5.0000e-005	0.4507	7.0000e-005	0.4508	0.0450	7.0000e-005	0.0450		4.9988	4.9988	8.0000e-005	7.8000e-004	5.2328
Worker	0.0570	0.0276	0.2909	1.4000e-004	7.9900e-003	2.4000e-004	8.2300e-003	2.1700e-003	2.2000e-004	2.3900e-003		14.3969	14.3969	7.0400e-003	3.0100e-003	15.4710
Total	**0.0584**	**0.0561**	**0.3108**	**1.9000e-004**	**0.4587**	**3.1000e-004**	**0.4590**	**0.0471**	**2.9000e-004**	**0.0474**		**19.3957**	**19.3957**	**7.1200e-003**	**3.7900e-003**	**20.7038**

3.3 PG&E Substation 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					12.0442	0.0000	12.0442	6.6205	0.0000	6.6205			0.0000			0.0000
Off-Road	3.1662	34.9056	18.8041	0.0418		1.5483	1.5483		1.4245	1.4245		4,047.3141	4,047.3141	1.3090		4,080.0387
Total	**3.1662**	**34.9056**	**18.8041**	**0.0418**	**12.0442**	**1.5483**	**13.5925**	**6.6205**	**1.4245**	**8.0449**		**4,047.3141**	**4,047.3141**	**1.3090**		**4,080.0387**

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

3.3 PG&E Substation 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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.3800e-003	0.0285	0.0199	5.0000e-005	0.7360	7.0000e-005	0.7361	0.0735	7.0000e-005	0.0736		4.9988	4.9988	8.0000e-005	7.8000e-004	5.2328
Worker	0.0570	0.0276	0.2909	1.4000e-004	7.9900e-003	2.4000e-004	8.2300e-003	2.1700e-003	2.2000e-004	2.3900e-003		14.3969	14.3969	7.0400e-003	3.0100e-003	15.4710
Total	**0.0584**	**0.0561**	**0.3108**	**1.9000e-004**	**0.7440**	**3.1000e-004**	**0.7443**	**0.0757**	**2.9000e-004**	**0.0760**		**19.3957**	**19.3957**	**7.1200e-003**	**3.7900e-003**	**20.7038**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					5.4199	0.0000	5.4199	2.9792	0.0000	2.9792			0.0000			0.0000
Off-Road	0.7524	12.9885	24.7445	0.0418		0.0682	0.0682		0.0682	0.0682	0.0000	4,047.3141	4,047.3141	1.3090		4,080.0387
Total	**0.7524**	**12.9885**	**24.7445**	**0.0418**	**5.4199**	**0.0682**	**5.4881**	**2.9792**	**0.0682**	**3.0474**	**0.0000**	**4,047.3141**	**4,047.3141**	**1.3090**		**4,080.0387**

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

3.3 PG&E Substation 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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.3800e-003	0.0285	0.0199	5.0000e-005	0.4507	7.0000e-005	0.4508	0.0450	7.0000e-005	0.0450		4.9988	4.9988	8.0000e-005	7.8000e-004	5.2328
Worker	0.0570	0.0276	0.2909	1.4000e-004	7.9900e-003	2.4000e-004	8.2300e-003	2.1700e-003	2.2000e-004	2.3900e-003		14.3969	14.3969	7.0400e-003	3.0100e-003	15.4710
Total	**0.0584**	**0.0561**	**0.3108**	**1.9000e-004**	**0.4587**	**3.1000e-004**	**0.4590**	**0.0471**	**2.9000e-004**	**0.0474**		**19.3957**	**19.3957**	**7.1200e-003**	**3.7900e-003**	**20.7038**

3.4 PG&E Substation 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	2.1239	20.5036	18.6487	0.0354		1.0074	1.0074		0.9540	0.9540		3,363.3020	3,363.3020	0.7262		3,381.4559
Total	**2.1239**	**20.5036**	**18.6487**	**0.0354**		**1.0074**	**1.0074**		**0.9540**	**0.9540**		**3,363.3020**	**3,363.3020**	**0.7262**		**3,381.4559**

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

3.4 PG&E Substation 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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0138	0.2852	0.1991	4.7000e-004	0.0861	7.0000e-004	0.0868	9.6100e-003	6.7000e-004	0.0103		49.9881	49.9881	8.3000e-004	7.7800e-003	52.3279
Worker	0.0570	0.0276	0.2909	1.4000e-004	7.9900e-003	2.4000e-004	8.2300e-003	2.1700e-003	2.2000e-004	2.3900e-003		14.3969	14.3969	7.0400e-003	3.0100e-003	15.4710
Total	**0.0708**	**0.3127**	**0.4900**	**6.1000e-004**	**0.0941**	**9.4000e-004**	**0.0950**	**0.0118**	**8.9000e-004**	**0.0127**		**64.3850**	**64.3850**	**7.8700e-003**	**0.0108**	**67.7989**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9142	13.2959	21.8651	0.0354		0.2150	0.2150		0.2038	0.2038	0.0000	3,363.3020	3,363.3020	0.7262		3,381.4559
Total	**0.9142**	**13.2959**	**21.8651**	**0.0354**		**0.2150**	**0.2150**		**0.2038**	**0.2038**	**0.0000**	**3,363.3020**	**3,363.3020**	**0.7262**		**3,381.4559**

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

3.4 PG&E Substation 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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0138	0.2852	0.1991	4.7000e-004	0.0547	7.0000e-004	0.0554	6.4700e-003	6.7000e-004	7.1400e-003		49.9881	49.9881	8.3000e-004	7.7800e-003	52.3279
Worker	0.0570	0.0276	0.2909	1.4000e-004	7.9900e-003	2.4000e-004	8.2300e-003	2.1700e-003	2.2000e-004	2.3900e-003		14.3969	14.3969	7.0400e-003	3.0100e-003	15.4710
Total	**0.0708**	**0.3127**	**0.4900**	**6.1000e-004**	**0.0627**	**9.4000e-004**	**0.0636**	**8.6400e-003**	**8.9000e-004**	**9.5300e-003**		**64.3850**	**64.3850**	**7.8700e-003**	**0.0108**	**67.7989**

3.4 PG&E Substation 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	1.9837	18.8638	18.4883	0.0354		0.8872	0.8872		0.8401	0.8401		3,363.9549	3,363.9549	0.7198		3,381.9496
Total	**1.9837**	**18.8638**	**18.4883**	**0.0354**		**0.8872**	**0.8872**		**0.8401**	**0.8401**		**3,363.9549**	**3,363.9549**	**0.7198**		**3,381.9496**

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

3.4 PG&E Substation 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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0125	0.2770	0.2032	4.6000e-004	0.0861	3.4000e-004	0.0864	9.6100e-003	3.3000e-004	9.9300e-003		48.4658	48.4658	7.7000e-004	7.5500e-003	50.7338
Worker	0.0519	0.0252	0.2783	1.4000e-004	7.9900e-003	2.3000e-004	8.2200e-003	2.1700e-003	2.1000e-004	2.3800e-003		13.9339	13.9339	6.4300e-003	2.8600e-003	14.9471
Total	**0.0644**	**0.3022**	**0.4814**	**6.0000e-004**	**0.0941**	**5.7000e-004**	**0.0946**	**0.0118**	**5.4000e-004**	**0.0123**		**62.3997**	**62.3997**	**7.2000e-003**	**0.0104**	**65.6809**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.8921	13.1054	21.8470	0.0354		0.1938	0.1938		0.1843	0.1843	0.0000	3,363.9549	3,363.9549	0.7198		3,381.9496
Total	**0.8921**	**13.1054**	**21.8470**	**0.0354**		**0.1938**	**0.1938**		**0.1843**	**0.1843**	**0.0000**	**3,363.9549**	**3,363.9549**	**0.7198**		**3,381.9496**

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

3.4 PG&E Substation 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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0125	0.2770	0.2032	4.6000e-004	0.0547	3.4000e-004	0.0550	6.4700e-003	3.3000e-004	6.8000e-003		48.4658	48.4658	7.7000e-004	7.5500e-003	50.7338
Worker	0.0519	0.0252	0.2783	1.4000e-004	7.9900e-003	2.3000e-004	8.2200e-003	2.1700e-003	2.1000e-004	2.3800e-003		13.9339	13.9339	6.4300e-003	2.8600e-003	14.9471
Total	**0.0644**	**0.3022**	**0.4814**	**6.0000e-004**	**0.0627**	**5.7000e-004**	**0.0632**	**8.6400e-003**	**5.4000e-004**	**9.1800e-003**		**62.3997**	**62.3997**	**7.2000e-003**	**0.0104**	**65.6809**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0176	0.3529	0.1625	1.2400e-003	0.0535	1.0600e-003	0.0546	0.0144	1.0000e-003	0.0154		128.1686	128.1686	9.8700e-003	0.0125	132.1476
Unmitigated	0.0176	0.3529	0.1625	1.2400e-003	0.0535	1.0600e-003	0.0546	0.0144	1.0000e-003	0.0154		128.1686	128.1686	9.8700e-003	0.0125	132.1476

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	6.00	6.00	6.00	16,565	16,565
Refrigerated Warehouse-No Rail	0.00	2.04	0.00	1,125	1,125
Total	6.00	8.04	6.00	17,690	17,690

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Office Building	14.70	6.60	6.60	33.00	48.00	19.00	77	19	4
Refrigerated Warehouse-No	14.70	6.60	6.60	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	0.500000	0.250000	0.250000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Refrigerated Warehouse-No Rail	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	1.000000	0.000000	0.000000	0.000000	0.000000	0.000000

5.0 Energy Detail

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

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	2.2000e-003	0.0200	0.0168	1.2000e-004		1.5200e-003	1.5200e-003		1.5200e-003	1.5200e-003		23.9683	23.9683	4.6000e-004	4.4000e-004	24.1107
NaturalGas Unmitigated	2.2000e-003	0.0200	0.0168	1.2000e-004		1.5200e-003	1.5200e-003		1.5200e-003	1.5200e-003		23.9683	23.9683	4.6000e-004	4.4000e-004	24.1107

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Office Building	112.74	1.2200e-003	0.0111	9.2800e-003	7.0000e-005		8.4000e-004	8.4000e-004		8.4000e-004	8.4000e-004		13.2635	13.2635	2.5000e-004	2.4000e-004	13.3423
Refrigerated Warehouse-No Rail	90.9907	9.8000e-004	8.9200e-003	7.4900e-003	5.0000e-005		6.8000e-004	6.8000e-004		6.8000e-004	6.8000e-004		10.7048	10.7048	2.1000e-004	2.0000e-004	10.7684
Total		**2.2000e-003**	**0.0200**	**0.0168**	**1.2000e-004**		**1.5200e-003**	**1.5200e-003**		**1.5200e-003**	**1.5200e-003**		**23.9683**	**23.9683**	**4.6000e-004**	**4.4000e-004**	**24.1107**

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

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Office Building	0.11274	1.2200e-003	0.0111	9.2800e-003	7.0000e-005		8.4000e-004	8.4000e-004		8.4000e-004	8.4000e-004		13.2635	13.2635	2.5000e-004	2.4000e-004	13.3423
Refrigerated Warehouse-No Rail	0.0909907	9.8000e-004	8.9200e-003	7.4900e-003	5.0000e-005		6.8000e-004	6.8000e-004		6.8000e-004	6.8000e-004		10.7048	10.7048	2.1000e-004	2.0000e-004	10.7684
Total		**2.2000e-003**	**0.0200**	**0.0168**	**1.2000e-004**		**1.5200e-003**	**1.5200e-003**		**1.5200e-003**	**1.5200e-003**		**23.9683**	**23.9683**	**4.6000e-004**	**4.4000e-004**	**24.1107**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.7978	3.0000e-005	3.2300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		6.9200e-003	6.9200e-003	2.0000e-005		7.3800e-003
Unmitigated	0.7978	3.0000e-005	3.2300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		6.9200e-003	6.9200e-003	2.0000e-005		7.3800e-003

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

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.1205					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.6770					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	3.0000e-004	3.0000e-005	3.2300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		6.9200e-003	6.9200e-003	2.0000e-005		7.3800e-003
Total	**0.7978**	**3.0000e-005**	**3.2300e-003**	**0.0000**		**1.0000e-005**	**1.0000e-005**		**1.0000e-005**	**1.0000e-005**		**6.9200e-003**	**6.9200e-003**	**2.0000e-005**		**7.3800e-003**

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

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.1205					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.6770					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	3.0000e-004	3.0000e-005	3.2300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		6.9200e-003	6.9200e-003	2.0000e-005		7.3800e-003
Total	**0.7978**	**3.0000e-005**	**3.2300e-003**	**0.0000**		**1.0000e-005**	**1.0000e-005**		**1.0000e-005**	**1.0000e-005**		**6.9200e-003**	**6.9200e-003**	**2.0000e-005**		**7.3800e-003**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Cranes	1	8.00	1	231	0.29	Diesel
Generator Sets	0	8.00	260	84	0.74	Diesel

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

UnMitigated/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
Equipment Type	lb/day										lb/day					
Cranes	0.3730	4.1843	1.8923	5.7700e-003		0.1737	0.1737		0.1598	0.1598	0.0000	558.8304	558.8304	0.1807		563.3488
Generator Sets	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Total	**0.3730**	**4.1843**	**1.8923**	**5.7700e-003**		**0.1737**	**0.1737**		**0.1598**	**0.1598**	**0.0000**	**558.8304**	**558.8304**	**0.1807**		**563.3488**

10.0 Stationary Equipment

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

11.0 Vegetation

SMAQMD Construction Mitigation Program - Results

Version 9.0

9/7/2021 5:50

Project Name: North Central Valley Energy Storage

Overall Reported Monthly Emissions

Reporting Month: January 2022

Comparison of your project fleet's emissions with the statewide average for construction equipment

		NOx	ROG	PM10	PM2.5
	Project fleet and statewide average construction equipment emission rates (g/bhp-hr)				
Your fleet's emission factors based on data entered >>	Project Fleet	1.52	0.17	0.04	0.03
Calculator estimated statewide average emission factors >>	Statewide Average	2.61	0.37	0.17	0.15
	Absolute Reduction	1.08	0.20	0.13	0.12
	Percent Reduction	**42%**	**54%**	**78%**	**78%**
	Project fleet construction equipment average daily emissions (lbs/day)				
Your fleet's average daily emissions based on data entered >>	Project Fleet	4.34	0.46	0.11	0.10
Calculator estimated average daily fleet emissions using statewide average emission factors >>	Statewide Average	7.42	1.01	0.49	0.46

Project haul truck(s) daily emissions

		NOx	ROG	PM10	PM2.5
	Project haul truck(s) average daily emissions (lbs/day)				
	Project Fleet	**N/A**	**N/A**	**N/A**	**N/A**

Project construction equipment and haul truck total emissions

		NOx	ROG	PM10	PM2.5
	Project total construction equipment and haul truck average daily emissions (lbs/day)				
Days Worked: 22	Construction Equipment	4.34	0.46	0.11	0.10
Days of Hauling: 0	Haul Truck(s)	N/A	N/A	N/A	N/A
	Total	**4.34**	**0.46**	**0.11**	**0.10**

NOTE: No haul truck VMT information provided.