



**APPENDIX A**

**CEQA-Plus Documentation**

# APPENDIX CEQA+

Drinking Water State Revolving Fund Application  
(Environmental Package)



**State of California  
State Water Resources Control Board  
Drinking Water State Revolving Fund Application - Assessment of  
Compliance with Federal Laws**

**Introduction**



# **ENVIRONMENTAL PACKAGE CONSTRUCTION**



# **ATTACHMENT 1**

*Notes to Support the Environmental Package*





# Attachment 1: Notes to Support the Environmental Package

## II. California Environmental Quality Act (CEQA) Status

### a. List and describe all related environmental permits, approvals, and certifications required for the project:

U.S. Army Corps of Engineers (Section 408 Permit); California Department of Industrial Relations, Division of Occupational Safety and Health, Mining and Tunneling Unit (Permit for construction of trenches and tunnel classifications); State Water Resources Control Board (Notice of Intent to comply with the General Construction Activity Permit and Notice of Intent to comply with the General Waste Discharge Requirements for Discharges from Drinking Water Systems to Surface Waters); Los Angeles Regional Water Quality Control Board (Notice of Intent to comply with the General National Pollutant Discharge Elimination System Permit for Discharges of Groundwater from Construction and Project Dewatering to Surface Waters); Los Angeles County Department of Public Works Flood Control Utility Crossing Permit and easement (access and modification to the Browns Canyon Wash and Kelvin Channels).

### b. Environmental Setting Explanations:

Noise: As discussed in Section 3.12 of the Initial Study / Mitigated Negative Declaration (IS/MND), the project would occur within the vicinity of residential sensitive receptors, and noise and vibration would increase during construction. However, mitigation would be applied to the project to ensure that significant noise and vibration effects do not occur during construction. No operational noise impacts would occur.

Traffic: As discussed in Section 3.16 of the IS/MND, potential traffic-related impacts could occur during project construction. However, mitigation would be applied to the project to ensure that significant traffic impacts do not occur during construction. No operational traffic impacts would occur.

Hazardous Materials Sites: The project area includes several properties that are listed as hazardous materials sites pursuant to Government Code Section 65962.5. Contamination at these sites has been remediated to the satisfaction of the applicable regulatory agencies or is currently undergoing cleanup under regulatory agency oversight. Furthermore, project construction would occur entirely within the public right-of-way, and the listed sites generally occur outside of the public right-of-way. Only one listed site is within the right-of-way: the Los Angeles County Metropolitan Transportation Authority Orange Line (California Department of Toxic Substances Control Site Cleanup Program; ID No. 60000187). Remediation for the site was completed in 2004. As such, the proposed project is not expected to disturb or affect a hazardous materials site.

## IV. Evaluation Form for Federal Environmental Coordination

### a. Environmental Alternative Analysis:

#### Proposed Project Alternative

The proposed project would involve pipeline replacements along several segments of existing potable water trunk lines in LADWP's service area (specifically, in the western San Fernando Valley). The portions of the existing trunk lines that are proposed for replacement are aging, deteriorating, and nearing

the end of their service life. The proposed replacements would increase the safety, capacity, and reliability of LADWP's water system in the western San Fernando Valley.

As shown in the attached IS/MND, the proposed project would result in potentially significant impacts in the categories of biological resources, cultural resources, noise, traffic, and tribal cultural resources. Such impacts would be both direct and indirect. However, mitigation measures are listed in the IS/MND that would reduce all potentially significant impacts of the project to below a level of significance. Additionally, the cumulative effects of the project were analyzed in the IS/MND and determined to be less than significant, after incorporation of the mitigation measures identified in the IS/MND. The mitigation measures set forth in the IS/MND are listed below:

**MM-BIO-1: Nesting Bird Avoidance**

If establishment of the potential staging area occurs during the migratory bird nesting season (typically February 15 through August 31), an avian nesting survey of the potential staging area and contiguous habitat within 300 feet of the staging area for protected native birds (within 500 feet for raptors) shall be performed by a qualified wildlife biologist 72 hours prior to construction in accordance with the Migratory Bird Treaty Act (MBTA) (16 U.S.C. 703–712) and California Fish and Game Code, Sections 3503, 3503.5, and 3513. If an active bird nest is found, the nest shall be flagged and mapped on the construction plans along with an appropriate no disturbance buffer, which will be determined by the biologist based on the biology of the species (typically 300 feet for passerines and 500 feet for raptor and special-status species). The nest area shall be avoided until the nest is vacated and the juveniles have fledged. The nest area shall be demarcated in the field with flagging and stakes or construction fencing.

**MM-CUL-1: Inadvertent Discovery of Archaeological Resources**

In the event that archaeological resources (sites, features, or artifacts) are exposed during construction activities for the proposed project, all construction work occurring within 100 feet of the find shall immediately stop until a qualified archaeologist, meeting the Secretary of the Interior's Professional Qualification Standards, can evaluate the significance of the find and determine whether or not additional study is warranted. Depending upon the significance of the find under CEQA (14 CCR 15064.5(f); California PRC Section 21082), the archaeologist may simply record the find and allow work to continue. If the discovery proves significant under CEQA, additional work, such as preparation of an archaeological treatment plan, testing, or data recovery, may be warranted.

**MM-CUL-2: Paleontological Monitoring**

Prior to commencement of any grading activity on-site, the applicant shall retain a qualified paleontologist. The qualified paleontologist shall attend the preconstruction meeting and be on-site during all rough grading and other significant ground-disturbing activities in previously undisturbed older Quaternary alluvial deposits, if encountered. These deposits may be encountered at depth below ground surface. In the event that paleontological resources (e.g., fossils) are unearthed during grading, the paleontology monitor will temporarily halt and/or divert grading activity to allow recovery of paleontological resources. The area of discovery will be roped off with a 50-foot radius buffer. Once documentation and collection of the find is completed, the monitor will remove the rope and allow grading to recommence in the area of the find. The paleontologist shall prepare a Paleontological Resources Impact Mitigation Program (PRIMP) for the proposed project. The PRIMP shall be consistent with the guidelines of the Society of Vertebrate Paleontology (SVP) (2010).

### **MM-CUL-3: Inadvertent Discovery of Human Remains**

In accordance with Section 7050.5 of the California Health and Safety Code, if human remains are found, the County Coroner shall be immediately notified of the discovery. No further excavation or disturbance of the project site or any nearby area reasonably suspected to overlie adjacent remains shall occur until the County Coroner has determined, within two working days of notification of the discovery, the appropriate treatment and disposition of the human remains. If the County Coroner determines that the remains are, or are believed to be, Native American, he or she shall notify the NAHC in Sacramento within 24 hours. In accordance with California Public Resources Code, Section 5097.98, the NAHC must immediately notify those persons it believes to be the most likely descendant from the deceased Native American. The most likely descendant shall complete their inspection within 48 hours of being granted access to the site. The designated Native American representative would then determine, in consultation with the property owner, the disposition of the human remains.

### **MM-NOI-1: Construction Noise Reduction**

The Los Angeles Department of Water and Power and/or its construction contractor shall comply with the following measures during construction:

1. Construction activities shall not occur between the hours of 9:00 pm and 7:00 am Monday through Friday, 6:00 pm and 8:00 am on Saturday, or on Sundays or national holidays. In the event that construction is required to extend beyond these times, extended hours permits shall be required.
2. Pumps and associated equipment (e.g., portable generators etc.) shall be shielded from sensitive uses using local temporary noise barriers or enclosures or shall otherwise be designed or configured so as to minimize noise at nearby noise-sensitive receivers.
3. Staging of construction equipment shall not occur within 20 feet of any noise- or vibration-sensitive land uses.
4. All noise-producing equipment and vehicles using internal combustion engines shall be equipped with mufflers; air-inlet silencers where appropriate; and any other shrouds, shields, or other noise-reducing features in good operating condition that meet or exceed original factory specification. Mobile or fixed “package” equipment (e.g., arc-welders, air compressors) shall be equipped with shrouds and noise control features that are readily available for that type of equipment.
5. All mobile or fixed noise-producing equipment used for the project that are regulated for noise output by a local, state, or federal agency shall be in compliance with regulations.
6. Idling equipment shall be kept to a minimum and moved as far as practicable from noise-sensitive land uses.
7. Electrically powered equipment shall be used instead of pneumatic or internal combustion powered equipment, where feasible.
8. Material stockpiles and mobile equipment staging, parking, and maintenance areas shall be located as far as practicable from noise-sensitive receptors.
9. The use of noise-producing signals, including horns, whistles, alarms, and bells, shall be used for safety warning purposes only.

### **MM-NOI-2: Notification**

Effective communication with local residents shall be maintained prior to and during construction. Specifically, the Los Angeles Department of Water and Power shall inform local residents of the schedule, duration, and progress of the construction. Additionally, residents shall be provided contact information for noise- or vibration-related complaints.

### **MM-TRAF-1: Construction Traffic Management Plan**

Prior to the start of any construction-related work or encroachment, the Los Angeles Department of Water and Power (LADWP) shall develop and implement a Construction Traffic Management Plan. The Construction Traffic Management Plan shall include but will not be limited to the following measures:

1. All construction activities shall be conducted in accordance with the Standard Specifications for Public Works Construction (Greenbook) and traffic control plans designed by the City of Los Angeles Department of Transportation (LADOT) and LADWP, to allow the least impacts to levels of service, traffic safety, and emergency access to the site during construction.
2. LADWP shall install temporary equipment necessary for safe and efficient traffic control including changeable message signs, delineators, arrow boards, K-Rails, flagmen, etc.
3. LADWP shall provide advance notification of the proposed construction work area limits and lane closure times to transit services and all local emergency service providers (police, fire, ambulance, etc.).
4. Qualified flagmen shall be posted at each work site to direct construction traffic entering and exiting the site and/or to direct large construction-related vehicles to/from the work areas.
5. Two-way travel shall always be provided along De Soto Avenue and affected cross-streets throughout construction. During construction periods with reduced lane capacity at impacted intersections, LADOT/LADWP shall implement a Traffic Control Plan that includes the provision of detour routes around the impacted intersections. The detour routes would include the use of adjacent parallel collector streets such as Mason Avenue (0.5 miles to the east) or Canoga Avenue (0.5 miles to the west), both four-lane divided roads classified as Avenue II roadways in the City's circulation element). For drivers on the northern end of the route (i.e., north of Plummer Street), in addition to Mason Avenue to the east, access to Topanga Canyon Boulevard (four-lane, divided state highway) would be provided 1 mile to the west. Detours through residential streets would be prohibited.
6. The Traffic Control Plans shall also include detours and safe passage areas for bicyclists and pedestrians in the impacted work areas.

#### **MM-TCR-1: Inadvertent Discovery of Tribal Cultural Resources**

In the event that tribal cultural resources are inadvertently encountered, all construction work occurring within 100 feet of the find shall immediately stop. The Los Angeles Department of Water and Power and any Native American tribes that have informed the Los Angeles Department of Water and Power that they are traditionally and culturally affiliated with the geographic area of the proposed project should be notified in the event of an inadvertent find. If the Los Angeles Department of Water and Power determines that a potential resource appears to be a tribal cultural resource (as defined by Public Resources Code Section 21074), the Los Angeles Department of Water and Power would provide any affected tribe a reasonable period of time to conduct a site visit and make recommendations regarding the monitoring of future ground disturbance activities, as well as the treatment and disposition of any discovered tribal cultural resources.

The future environmental impacts of the proposed project would be minimal to negligible. Because the proposed project involves replacements along existing underground trunk lines, the trunk lines would continue to operate and be maintained by LADWP, consistent with existing conditions. The proposed project would also decrease the likelihood of future pipeline breakages, which would decrease the likelihood of safety hazards, service disruptions, and emergency repairs that could be associated with pipeline breakage.

### No Project/No Action Alternative

Under the no project/no action alternative, the proposed potable water pipeline replacements would not occur. As such, the potentially significant impacts identified for the proposed project in the categories of biological resources, cultural resources, noise, traffic and transportation, and tribal cultural resources would not occur. No direct, indirect, or cumulative impacts would occur.

However, in contrast to the proposed project, the no project/no action alternative would increase future potential environmental impacts. Because the pipeline segments that would be replaced under the proposed project are aging, deteriorating, and nearing the end of their service life, the no project/no action alternative could result in pipeline failures such as leaks or breakages. Pipeline breakage would disrupt potable water service for nearby residents and businesses and could also result in safety concerns near the breakage, such as hazardous roadway conditions due to flooding and unplanned interruptions or obstruction in traffic, emergency access, and property access. Additionally, in the event of a pipeline breakage, emergency repairs may be required. Emergency repairs would not be subject to the same level of environmental analysis as the proposed project, as they may be deemed exempt from CEQA. Depending on the location and extent of damage, emergency repairs could ultimately result in increased effects in the categories of biological resources, cultural resources, noise, traffic and transportation, and tribal cultural resources relative to those of the proposed project.

### Alternatives Considered but Eliminated from Detailed Analysis – New/Rerouted Pipeline Alignments Alternative

The proposed project would involve replacing segments of existing potable water trunk lines. The replaced segments would connect to portions of existing trunk lines that have been recently replaced or do not otherwise require replacement. Rather than replacing segments of existing trunk lines, the existing trunk lines could be abandoned, and new trunk lines could be constructed elsewhere in the western San Fernando Valley. Alternatively, the segments proposed for replacement could be re-routed to other roadways and then routed back to the existing trunk lines. While alternative alignments would decrease or eliminate impacts of the proposed project along De Soto Avenue, Roscoe Boulevard, and Victory Boulevard, the impacts of the proposed project would simply be relocated elsewhere in the western San Fernando Valley. Due to the generally built-out nature of the San Fernando Valley and the presence of a variety of sensitive receptors throughout the area (residences, schools, hospitals, etc.), it is unlikely that an alternate alignment would be situated far enough from sensitive receptors to substantially lessen the air quality and noise impacts of the proposed project during construction. Similarly, alternative alignments would not necessarily reduce impacts to transportation and traffic, as such impacts could merely be relocated to other intersections within the City.

Additionally, construction impacts may increase if alternate pipeline alignments were selected. For example, construction of entirely new trunk lines would result in increased construction duration and ground disturbance. Rerouted trunk lines would require additional pipeline connections, utility relocations, and potentially longer alignments, resulting in increased construction duration and intensity. As such, alternate pipeline alignments would likely result in increased direct, indirect, and cumulative environmental impacts during construction, relative to the proposed project.

As with the proposed project, future environmental impacts associated with alternative pipeline alignments would be minimal to negligible. The replacement trunk lines would continue to operate and be maintained by LADWP, in a manner similar to existing conditions. Similar to the proposed project, addressing the aging and deteriorating nature of the existing trunk lines would also address and reduce the potential for future pipeline breakages, which would decrease the likelihood of safety hazards, service disruptions, and emergency repairs that could be associated with pipeline breakage.



### Selection of the Proposed Project Alternative

The proposed project alternative was selected because construction disturbances would be reduced relative to the new/rerouted pipeline alignments alternative, and the potential for increased environmental effects in the future would be reduced relative to the no project/no action alternative. For the reasons described above, the proposed project was determined to be the environmentally preferable alternative.

#### **b. Endangered Species Act (ESA)**

The proposed project would not have an impact on federally listed plant or wildlife species or their critical habitat. No special-status plant or wildlife species were observed during the general biological surveys conducted for the proposed project. Additionally, based on the occurrence of limited, isolated native vegetation within the project site, lack of suitable soils, routine disturbance and development, as well as the extent of ornamental landscaping that appears to be regularly maintained throughout the project area, no special-status plants or wildlife species were determined to have a moderate or high potential to occur within the proposed project site. (“Project site” refers to the proposed trunk line alignment and potential staging area).

Although the project site does not provide suitable habitat to support special-status plant or wildlife species, the coastal scrub habitat located approximately 30 feet north of the potential staging area provides potentially suitable habitat to support the federally listed as threatened and state species of special concern coastal California gnatcatcher (*Polioptila californica californica*) and state listed as rare and California Rare Plant Rank (CRPR) 1B.2 Santa Susana tarplant (*Deinandra minthornii*). Thus, coastal California gnatcatcher and Santa Susana tarplant are addressed further in the Biological Technical Report (Appendix B). The findings shown in the Biological Technical Report are summarized below.

A protocol-level presence/absence focused survey for coastal California gnatcatcher was conducted between April 25 and June 18, 2018, within the general staging area location (i.e., the potential staging area and a 500-foot buffer), with negative findings for this species. As such, impacts to coastal California gnatcatcher are not anticipated to occur. Furthermore, activities proposed within the potential staging area would be limited to material storage and vehicle parking, and access to the potential staging area is provided via existing paved ingress/egress roads in the area. Thus, potential indirect impacts to coastal California gnatcatcher based on the use of the potential staging area are not anticipated to occur. Potential indirect impacts to Santa Susana tarplant, if present, are anticipated to be negligible, given that indirect impacts (if any) would be limited to minor occurrences of fugitive dust, which would be controlled and minimized through best management practices such as watering active work areas.

No United States Fish and Wildlife Service (USFWS)-designated critical habitat for listed wildlife or plant species exists within the project site (USFWS 2017). The closest USFWS-designated critical habitat for wildlife is for coastal California gnatcatcher and is located approximately 0.3 miles northwest of the potential staging area (see Figure 3 in Appendix B). This critical habitat is within the western Los Angeles and Ventura Counties Unit (Unit 13), which includes suitable habitat for this species and provides a linkage to known and otherwise isolated populations of coastal California gnatcatchers (71 FR 72010–72213). The area of Unit 13 connects the San Gabriel and Santa Susana Mountains and serves as an essential linkage between two isolated populations of gnatcatchers in the Moorpark area in Ventura County and the pairs documented in the foothills of the San Gabriel Mountains in Los Angeles County (71 FR 72010–72213).

In conclusion, impacts to federally listed species or their critical habitat would not occur as a result of the proposed project. Additional information, including results of the database queries, analysis of species

queried, species information, and a discussion of project impacts is discussed in greater detail within the Biological Resources Technical Report for the project (Appendix B).

### **c. Environmental Justice**

The project involves replacement and repair of aging and deteriorating potable water pipelines in the western San Fernando Valley area within the City of Los Angeles. The project site is not located on or near tribal lands as shown on U.S. Census Bureau maps (U.S. Census Bureau 2010). The following Census Tracts are located within 0.25 miles of the potential staging area and project alignment: 113101 (Block Groups 1 and 2), 113234 (Block Group 2), 113303 (Block Group 2), 113321 (Block Group 1), 113421 (Block Groups 1, 2, and 3), 113422 (Block Groups 1 and 2), 134103 (Block Group 2), 134201 (Block Groups 1 and 3), 134903 (Block Group 1), 134904 (Block Group 1), and 134905 (Block Group 1). The median household income for these census block groups ranges from approximately \$40,205 to \$118,618 (U.S. Census Bureau 2016). The project alignment extends through the greater communities of Chatsworth, Canoga Park, and Winnetka, which have median household incomes of approximately \$84,456, \$51,601, and \$62,535, respectively. Average household size in these communities are 2.6 people, 3.0 people, and 3.1 people, respectively (Los Angeles Times 2017). The U.S. Census Bureau identifies weighted average poverty thresholds by size of family in its *Current Population Report*. The threshold identified for families of two people is \$15,569; \$19,105 for families of three people; and \$24,563 for families of four people (U.S. Census Bureau 2017). The income levels reported in Chatsworth, Canoga Park, and Winnetka, as well as in the specific census block groups through which the project alignment extends, are above these thresholds.

The census block groups through which the project alignment extends have minority populations ranging from 15% to 78% (U.S. Census Bureau 2016). The communities of Chatsworth, Canoga Park, and Winnetka have minority populations (i.e., nonwhite populations) of approximately 34%, 69%, and 64%, respectively (Los Angeles Times 2017). As demonstrated, the project alignment extends through a variety of communities and neighborhoods, some of which have predominantly minority populations and others of which do not have predominantly minority populations. The project would not have disproportionate effects in the areas with predominately minority populations or with lower incomes. Rather, the effects of the project would be relatively uniform along the alignment. As demonstrated in the analysis of the project in the IS/MND, the project would result in temporary, short-term construction effects that may cause nuisances at the land uses adjacent to the project alignment, which include residences, businesses, and schools. However, after implementation of the mitigation measures that have been identified in the IS/MND, construction is not anticipated to cause significant, adverse effects. Further, construction activities would be primarily limited to roadway rights-of-way. Additionally, while the project would be associated with temporary construction effects and nuisances, the long-term purpose of the project is to update aging, deteriorating potable water infrastructure. As such, the project would ultimately increase the safety and reliability of potable water distribution in the project area, resulting in a long-term benefit to the populations that reside and work in the project area. LADWP would notify project area residents of the project and of construction activities through issuance of a Notice of Intent to Adopt a Mitigated Negative Declaration for the proposed project and would also notify area residents of construction activities. For these reasons, the project would not disproportionately affect minority or low-income populations, nor would it have a particular impact on these populations.

### **d. Fish and Wildlife Coordination Act (FWCA)**

The project would not affect waters of a stream or other water bodies by impounding, diverting, deepening a channel, or otherwise controlling or modifying flow for any purpose. Although the proposed work would cross underneath two potentially jurisdictional concrete-lined drainages (Browns Canyon Wash and Kelvin Channel) in three locations along the project alignment, these channels are not



anticipated to be impacted by the proposed project because the proposed replacement pipeline would be jacked underneath these channels, resulting in no physical impacts to the channels. Additionally, these channels occur within urban areas, which provide limited fish and wildlife resources. Browns Canyon Wash is adjacent to a City sidewalk and is well delineated by fencing. Kelvin Channel is subterranean where the project crosses the channel. Construction vehicle access and the proposed project activities would occur within paved City streets, minimizing potential indirect impacts due to chemical run-off and fugitive dust. Additionally, pipe jacking would occur within these areas, thereby eliminating potential indirect effects due to altered hydrology. As such, direct and indirect effects to these channels or fish and wildlife resources are not anticipated to occur, and the project would not require compliance with FWCA.

#### **e. Migratory Bird Treaty Act**

According to the USFWS IPaC Trust Resource Report (USFWS 2017), 33 species of migratory birds could occur within the general project area. An official USFWS IPaC list of all the “birds of conservation concern” that could occur where the project is located is provided in Section 6.4.4 (page 36) of the Biological Technical Report (Appendix B). Wrentit was the only migratory species provided within the USFWS IPaC Trust Resource Report that was detected within the action area during the June and October 2017 surveys. (The “action area” is defined as the proposed pipeline alignment, the potential staging area, and a 500-foot buffer surrounding the alignment and staging area.) Many of the bird species listed within the USFWS IPaC Trust Report are unlikely to occur within the action area given the disturbed nature of the area (which is dominated by commercial and residential development) and lack of suitable habitat (i.e., coastal shoreline habitat, wetland and riparian areas, contiguous open habitat, and/or forested areas). Other migratory bird species that could occur within the action area include Allen’s hummingbird (*Selasphorus sasin*; USFWS Bird of Conservation Concern (BCC)), Lawrence’s goldfinch (*Spinus lawrencei*; USFWS BCC), rufous hummingbird (*Selasphorus rufus*; USFWS BCC), song sparrow (*Melospiza melodia maxillaris*; USFWS BCC/CDFW Species of Special Concern (SSC)), spotted towhee (*Pipilo maculatus clementae*; USFWS BCC/CDFW SSC), and wrentit (*Chamaea fasciata*). Given the urbanization surrounding the proposed alignment, these migratory bird species are unlikely to occur within the proposed trunk line alignment action area. However, these species, if occurring on-site, could occur within and around the potential staging area location.

While the majority of the action area associated with the proposed alignment provides limited habitat for nesting birds and raptors, the vegetation within the action area associated with the potential staging area may provide suitable habitat to support breeding and foraging habitat for birds and raptors protected under the Migratory Bird Treaty Act (MBTA) and/or California Fish and Game Code. As such, project activities associated with the potential staging area occurring during the general nesting bird-breeding season (February 15 through August 31) could disrupt breeding activity. Breeding birds may be directly affected (i.e., impacts from staging area use) and/or indirectly affected by short-term construction-related noise, which can result in the disruption of foraging, nesting, and reproductive activities. These temporary direct and/or indirect effects to nesting birds protected under the MBTA would be potentially adverse. As a result, mitigation measure MM-BIO-1 is set forth in the IS/MND to reduce potential direct and/or indirect impacts to nesting birds to less than significant levels. See MM-BIO-1 in the attached IS/MND and Section 8 (page 49) of the Biological Technical Report (Appendix B).

#### **f. Protection of Wetlands**

The project area was evaluated for the potential to support jurisdictional waters regulated under the federal Clean Water Act, California Fish and Game Code, and Porter-Cologne Water Quality Control Act. Results are detailed in Biological Technical Report (Appendix B). As documented in the Biological Technical Report, no jurisdictional wetlands occur within the project area. Additionally, jurisdictional non-wetland waters within the project area would not be directly or indirectly affected by the proposed

project activities. The work area crosses two potentially jurisdictional concrete-lined drainages (Browns Canyon Wash and Kelvin Channel) in three locations along the project alignment. However, pipeline jacking would occur within portions of the project alignment proposed to cross under Browns Canyon Wash and Kelvin Channel; thus, these channels are not anticipated to be impacted by the proposed project. Browns Canyon Wash is adjacent to a City sidewalk and well delineated by fencing, and Kelvin Channel is subterranean where the project crosses the channel. Construction activities would occur within paved City streets, minimizing potential indirect impacts due to chemical run-off and fugitive dust. Additionally, pipeline jacking would occur within these areas, which would eliminate the potential for indirect impacts due to altered hydrology. As such, direct and indirect effects to these channels are not anticipated to occur, and the project is not anticipated to result in direct or indirect effects to any jurisdictional wetlands or waters of the U.S.

### **References for the Environmental Package**

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<https://www.census.gov/content/dam/Census/library/publications/2017/demo/P60-259.pdf>.
- USFWS. 2017. Environmental Conservation Online System Information, Planning, and Conservation System (IPaC). Accessed November 2017. <https://ecos.fws.gov/ipac/>.



**APPENDIX B**

**Air Quality and Greenhouse Gas Modeling Data**

Summer



Solvang WWTP - Santa Barbara-South of Santa Ynez Range County, Summer

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

**Solvang WWTP**

**Santa Barbara-South of Santa Ynez Range County, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	20.00	1000sqft	2.35	20,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.7	<b>Precipitation Freq (Days)</b>	37
<b>Climate Zone</b>	4			<b>Operational Year</b>	2026
<b>Utility Company</b>	Pacific Gas and Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	203.98	<b>CH4 Intensity (lb/MWhr)</b>	0.033	<b>N2O Intensity (lb/MWhr)</b>	0.004

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

Project Characteristics -

Land Use - Construction area approximately 2.35 acres.

Construction Phase - Construction of the proposed Project is expected to begin in October 2024 and would be completed by October 2026.

Demolition -

Grading -

Vehicle Trips - Assumed 1 vehicle per day for maintenance.

Water And Wastewater - Project would have a 1.5 MG capacity.

Construction Off-road Equipment Mitigation - Fugitive dust requirements per SBCAPCD Rule 345.

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Fleet Mix -

## Solvang WWTP - Santa Barbara-South of Santa Ynez Range County, Summer

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

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	10.00	22.00
tblConstructionPhase	NumDays	220.00	434.00
tblConstructionPhase	NumDays	20.00	23.00
tblConstructionPhase	NumDays	6.00	43.00
tblConstructionPhase	NumDays	10.00	22.00
tblGrading	MaterialExported	0.00	5,500.00
tblGrading	MaterialImported	0.00	2,500.00
tblLandUse	LotAcreage	0.46	2.35
tblVehicleTrips	ST_TR	1.99	0.05
tblVehicleTrips	SU_TR	5.00	0.05
tblVehicleTrips	WD_TR	4.96	0.05
tblWater	IndoorWaterUseRate	4,625,000.00	1,500,000.00

**2.0 Emissions Summary**

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Solvang WWTP - Santa Barbara-South of Santa Ynez Range County, Summer

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

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

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2024	1.4766	17.4376	13.8228	0.0349	7.5782	0.6344	8.1790	3.5565	0.5926	4.1103	0.0000	3,616.170 6	3,616.170 6	0.7622	0.2531	3,710.660 8
2025	1.5111	12.1687	14.1871	0.0260	0.0683	0.4710	0.5393	0.0185	0.4508	0.4693	0.0000	2,388.644 6	2,388.644 6	0.4239	9.7100e- 003	2,402.134 9
2026	21.2433	12.1648	14.1760	0.0259	0.0947	0.4710	0.5393	0.0251	0.4508	0.4693	0.0000	2,386.590 7	2,386.590 7	0.5441	9.4900e- 003	2,400.016 1
<b>Maximum</b>	<b>21.2433</b>	<b>17.4376</b>	<b>14.1871</b>	<b>0.0349</b>	<b>7.5782</b>	<b>0.6344</b>	<b>8.1790</b>	<b>3.5565</b>	<b>0.5926</b>	<b>4.1103</b>	<b>0.0000</b>	<b>3,616.170 6</b>	<b>3,616.170 6</b>	<b>0.7622</b>	<b>0.2531</b>	<b>3,710.660 8</b>

**Mitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2024	1.4766	17.4376	13.8228	0.0349	3.6676	0.6344	4.2684	1.6706	0.5926	2.2244	0.0000	3,616.170 6	3,616.170 6	0.7622	0.2531	3,710.660 8
2025	1.5111	12.1687	14.1871	0.0260	0.0683	0.4710	0.5393	0.0185	0.4508	0.4693	0.0000	2,388.644 6	2,388.644 6	0.4239	9.7100e- 003	2,402.134 9
2026	21.2433	12.1648	14.1760	0.0259	0.0947	0.4710	0.5393	0.0251	0.4508	0.4693	0.0000	2,386.590 7	2,386.590 7	0.5441	9.4900e- 003	2,400.016 1
<b>Maximum</b>	<b>21.2433</b>	<b>17.4376</b>	<b>14.1871</b>	<b>0.0349</b>	<b>3.6676</b>	<b>0.6344</b>	<b>4.2684</b>	<b>1.6706</b>	<b>0.5926</b>	<b>2.2244</b>	<b>0.0000</b>	<b>3,616.170 6</b>	<b>3,616.170 6</b>	<b>0.7622</b>	<b>0.2531</b>	<b>3,710.660 8</b>

## Solvang WWTP - Santa Barbara-South of Santa Ynez Range County, Summer

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	50.52	0.00	42.24	52.38	0.00	37.35	0.00	0.00	0.00	0.00	0.00	0.00



Solvang WWTP - Santa Barbara-South of Santa Ynez Range County, Summer

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

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.5552	2.0000e-005	2.0400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		4.3800e-003	4.3800e-003	1.0000e-005		4.6600e-003
Energy	0.0155	0.1406	0.1181	8.4000e-004		0.0107	0.0107		0.0107	0.0107		168.7671	168.7671	3.2300e-003	3.0900e-003	169.7700
Mobile	2.4400e-003	2.7000e-003	0.0193	4.0000e-005	4.5000e-003	3.0000e-005	4.5400e-003	1.2000e-003	3.0000e-005	1.2300e-003		4.1743	4.1743	2.8000e-004	2.1000e-004	4.2433
<b>Total</b>	<b>0.5731</b>	<b>0.1434</b>	<b>0.1395</b>	<b>8.8000e-004</b>	<b>4.5000e-003</b>	<b>0.0107</b>	<b>0.0152</b>	<b>1.2000e-003</b>	<b>0.0107</b>	<b>0.0119</b>		<b>172.9458</b>	<b>172.9458</b>	<b>3.5200e-003</b>	<b>3.3000e-003</b>	<b>174.0180</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.5552	2.0000e-005	2.0400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		4.3800e-003	4.3800e-003	1.0000e-005		4.6600e-003
Energy	0.0155	0.1406	0.1181	8.4000e-004		0.0107	0.0107		0.0107	0.0107		168.7671	168.7671	3.2300e-003	3.0900e-003	169.7700
Mobile	2.4400e-003	2.7000e-003	0.0193	4.0000e-005	4.5000e-003	3.0000e-005	4.5400e-003	1.2000e-003	3.0000e-005	1.2300e-003		4.1743	4.1743	2.8000e-004	2.1000e-004	4.2433
<b>Total</b>	<b>0.5731</b>	<b>0.1434</b>	<b>0.1395</b>	<b>8.8000e-004</b>	<b>4.5000e-003</b>	<b>0.0107</b>	<b>0.0152</b>	<b>1.2000e-003</b>	<b>0.0107</b>	<b>0.0119</b>		<b>172.9458</b>	<b>172.9458</b>	<b>3.5200e-003</b>	<b>3.3000e-003</b>	<b>174.0180</b>

Solvang WWTP - Santa Barbara-South of Santa Ynez Range County, Summer

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

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

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	10/1/2024	10/31/2024	5	23	
2	Grading	Grading	11/1/2024	12/31/2024	5	43	
3	Building Construction	Building Construction	1/1/2025	8/31/2026	5	434	
4	Paving	Paving	9/1/2026	9/30/2026	5	22	
5	Architectural Coating	Architectural Coating	10/1/2026	10/30/2026	5	22	

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

**Acres of Grading (Grading Phase): 43**

**Acres of Paving: 0**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 30,000; Non-Residential Outdoor: 10,000; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37

Solvang WWTP - Santa Barbara-South of Santa Ynez Range County, Summer

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

Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Forklifts	2	7.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	5	13.00	0.00	55.00	8.30	6.40	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	1,000.00	8.30	6.40	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	8.00	3.00	0.00	8.30	6.40	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	8.30	6.40	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	2.00	0.00	0.00	8.30	6.40	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

Solvang WWTP - Santa Barbara-South of Santa Ynez Range County, Summer

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

**3.2 Demolition - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5216	0.0000	0.5216	0.0790	0.0000	0.0790			0.0000			0.0000
Off-Road	1.4397	13.8867	13.4879	0.0241		0.6311	0.6311		0.5895	0.5895		2,324.9459	2,324.9459	0.5884		2,339.6562
<b>Total</b>	<b>1.4397</b>	<b>13.8867</b>	<b>13.4879</b>	<b>0.0241</b>	<b>0.5216</b>	<b>0.6311</b>	<b>1.1527</b>	<b>0.0790</b>	<b>0.5895</b>	<b>0.6684</b>		<b>2,324.9459</b>	<b>2,324.9459</b>	<b>0.5884</b>		<b>2,339.6562</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	6.0200e-003	0.3707	0.1016	1.4200e-003	0.0416	2.9100e-003	0.0446	0.0114	2.7800e-003	0.0142		161.2663	161.2663	0.0118	0.0259	169.2712
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0309	0.0192	0.2332	6.6000e-004	0.0821	3.8000e-004	0.0825	0.0218	3.5000e-004	0.0221		67.9245	67.9245	2.2400e-003	2.0200e-003	68.5830
<b>Total</b>	<b>0.0369</b>	<b>0.3898</b>	<b>0.3349</b>	<b>2.0800e-003</b>	<b>0.1237</b>	<b>3.2900e-003</b>	<b>0.1270</b>	<b>0.0332</b>	<b>3.1300e-003</b>	<b>0.0363</b>		<b>229.1909</b>	<b>229.1909</b>	<b>0.0141</b>	<b>0.0279</b>	<b>237.8542</b>

Solvang WWTP - Santa Barbara-South of Santa Ynez Range County, Summer

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

**3.2 Demolition - 2024**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.2347	0.0000	0.2347	0.0355	0.0000	0.0355			0.0000			0.0000
Off-Road	1.4397	13.8867	13.4879	0.0241		0.6311	0.6311		0.5895	0.5895	0.0000	2,324.945 9	2,324.945 9	0.5884		2,339.656 2
<b>Total</b>	<b>1.4397</b>	<b>13.8867</b>	<b>13.4879</b>	<b>0.0241</b>	<b>0.2347</b>	<b>0.6311</b>	<b>0.8658</b>	<b>0.0355</b>	<b>0.5895</b>	<b>0.6250</b>	<b>0.0000</b>	<b>2,324.945 9</b>	<b>2,324.945 9</b>	<b>0.5884</b>		<b>2,339.656 2</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	6.0200e-003	0.3707	0.1016	1.4200e-003	0.0416	2.9100e-003	0.0446	0.0114	2.7800e-003	0.0142		161.2663	161.2663	0.0118	0.0259	169.2712
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0309	0.0192	0.2332	6.6000e-004	0.0821	3.8000e-004	0.0825	0.0218	3.5000e-004	0.0221		67.9245	67.9245	2.2400e-003	2.0200e-003	68.5830
<b>Total</b>	<b>0.0369</b>	<b>0.3898</b>	<b>0.3349</b>	<b>2.0800e-003</b>	<b>0.1237</b>	<b>3.2900e-003</b>	<b>0.1270</b>	<b>0.0332</b>	<b>3.1300e-003</b>	<b>0.0363</b>		<b>229.1909</b>	<b>229.1909</b>	<b>0.0141</b>	<b>0.0279</b>	<b>237.8542</b>

Solvang WWTP - Santa Barbara-South of Santa Ynez Range County, Summer

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

**3.3 Grading - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.1100	0.0000	7.1100	3.4289	0.0000	3.4289			0.0000			0.0000
Off-Road	1.3015	13.8178	8.6998	0.0206		0.5722	0.5722		0.5265	0.5265		1,995.5803	1,995.5803	0.6454		2,011.7155
<b>Total</b>	<b>1.3015</b>	<b>13.8178</b>	<b>8.6998</b>	<b>0.0206</b>	<b>7.1100</b>	<b>0.5722</b>	<b>7.6823</b>	<b>3.4289</b>	<b>0.5265</b>	<b>3.9554</b>		<b>1,995.5803</b>	<b>1,995.5803</b>	<b>0.6454</b>		<b>2,011.7155</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0585	3.6050	0.9882	0.0138	0.4050	0.0283	0.4332	0.1108	0.0270	0.1379		1,568.3407	1,568.3407	0.1151	0.2516	1,646.1891
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0238	0.0147	0.1794	5.1000e-004	0.0632	2.9000e-004	0.0635	0.0168	2.7000e-004	0.0170		52.2496	52.2496	1.7300e-003	1.5600e-003	52.7562
<b>Total</b>	<b>0.0823</b>	<b>3.6197</b>	<b>1.1676</b>	<b>0.0143</b>	<b>0.4681</b>	<b>0.0286</b>	<b>0.4967</b>	<b>0.1276</b>	<b>0.0273</b>	<b>0.1549</b>		<b>1,620.5904</b>	<b>1,620.5904</b>	<b>0.1168</b>	<b>0.2531</b>	<b>1,698.9452</b>

Solvang WWTP - Santa Barbara-South of Santa Ynez Range County, Summer

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

**3.3 Grading - 2024**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.1995	0.0000	3.1995	1.5430	0.0000	1.5430			0.0000			0.0000
Off-Road	1.3015	13.8178	8.6998	0.0206		0.5722	0.5722		0.5265	0.5265	0.0000	1,995.580 3	1,995.580 3	0.6454		2,011.715 5
<b>Total</b>	<b>1.3015</b>	<b>13.8178</b>	<b>8.6998</b>	<b>0.0206</b>	<b>3.1995</b>	<b>0.5722</b>	<b>3.7718</b>	<b>1.5430</b>	<b>0.5265</b>	<b>2.0695</b>	<b>0.0000</b>	<b>1,995.580 3</b>	<b>1,995.580 3</b>	<b>0.6454</b>		<b>2,011.715 5</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0585	3.6050	0.9882	0.0138	0.4050	0.0283	0.4332	0.1108	0.0270	0.1379		1,568.340 7	1,568.340 7	0.1151	0.2516	1,646.189 1
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0238	0.0147	0.1794	5.1000e-004	0.0632	2.9000e-004	0.0635	0.0168	2.7000e-004	0.0170		52.2496	52.2496	1.7300e-003	1.5600e-003	52.7562
<b>Total</b>	<b>0.0823</b>	<b>3.6197</b>	<b>1.1676</b>	<b>0.0143</b>	<b>0.4681</b>	<b>0.0286</b>	<b>0.4967</b>	<b>0.1276</b>	<b>0.0273</b>	<b>0.1549</b>		<b>1,620.590 4</b>	<b>1,620.590 4</b>	<b>0.1168</b>	<b>0.2531</b>	<b>1,698.945 2</b>

Solvang WWTP - Santa Barbara-South of Santa Ynez Range County, Summer

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

**3.4 Building Construction - 2025**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4897	12.0233	14.0072	0.0250		0.4700	0.4700		0.4498	0.4498		2,289.8898	2,289.8898	0.4200		2,300.3887
<b>Total</b>	<b>1.4897</b>	<b>12.0233</b>	<b>14.0072</b>	<b>0.0250</b>		<b>0.4700</b>	<b>0.4700</b>		<b>0.4498</b>	<b>0.4498</b>		<b>2,289.8898</b>	<b>2,289.8898</b>	<b>0.4200</b>		<b>2,300.3887</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.5100e-003	0.1348	0.0459	5.3000e-004	0.0178	8.0000e-004	0.0186	5.1200e-003	7.7000e-004	5.8800e-003		57.9120	57.9120	2.6700e-003	8.5500e-003	60.5261
Worker	0.0179	0.0106	0.1340	3.9000e-004	0.0505	2.2000e-004	0.0508	0.0134	2.1000e-004	0.0136		40.8427	40.8427	1.2600e-003	1.1600e-003	41.2202
<b>Total</b>	<b>0.0214</b>	<b>0.1454</b>	<b>0.1799</b>	<b>9.2000e-004</b>	<b>0.0683</b>	<b>1.0200e-003</b>	<b>0.0693</b>	<b>0.0185</b>	<b>9.8000e-004</b>	<b>0.0195</b>		<b>98.7547</b>	<b>98.7547</b>	<b>3.9300e-003</b>	<b>9.7100e-003</b>	<b>101.7462</b>



Solvang WWTP - Santa Barbara-South of Santa Ynez Range County, Summer

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

**3.4 Building Construction - 2025**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4897	12.0233	14.0072	0.0250		0.4700	0.4700		0.4498	0.4498	0.0000	2,289.8898	2,289.8898	0.4200		2,300.3887
<b>Total</b>	<b>1.4897</b>	<b>12.0233</b>	<b>14.0072</b>	<b>0.0250</b>		<b>0.4700</b>	<b>0.4700</b>		<b>0.4498</b>	<b>0.4498</b>	<b>0.0000</b>	<b>2,289.8898</b>	<b>2,289.8898</b>	<b>0.4200</b>		<b>2,300.3887</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.5100e-003	0.1348	0.0459	5.3000e-004	0.0178	8.0000e-004	0.0186	5.1200e-003	7.7000e-004	5.8800e-003		57.9120	57.9120	2.6700e-003	8.5500e-003	60.5261
Worker	0.0179	0.0106	0.1340	3.9000e-004	0.0505	2.2000e-004	0.0508	0.0134	2.1000e-004	0.0136		40.8427	40.8427	1.2600e-003	1.1600e-003	41.2202
<b>Total</b>	<b>0.0214</b>	<b>0.1454</b>	<b>0.1799</b>	<b>9.2000e-004</b>	<b>0.0683</b>	<b>1.0200e-003</b>	<b>0.0693</b>	<b>0.0185</b>	<b>9.8000e-004</b>	<b>0.0195</b>		<b>98.7547</b>	<b>98.7547</b>	<b>3.9300e-003</b>	<b>9.7100e-003</b>	<b>101.7462</b>

Solvang WWTP - Santa Barbara-South of Santa Ynez Range County, Summer

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

**3.4 Building Construction - 2026**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4897	12.0233	14.0072	0.0250		0.4700	0.4700		0.4498	0.4498		2,289.8898	2,289.8898	0.4200		2,300.3887
<b>Total</b>	<b>1.4897</b>	<b>12.0233</b>	<b>14.0072</b>	<b>0.0250</b>		<b>0.4700</b>	<b>0.4700</b>		<b>0.4498</b>	<b>0.4498</b>		<b>2,289.8898</b>	<b>2,289.8898</b>	<b>0.4200</b>		<b>2,300.3887</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.3700e-003	0.1319	0.0450	5.2000e-004	0.0178	7.8000e-004	0.0186	5.1200e-003	7.5000e-004	5.8600e-003		56.8533	56.8533	2.7600e-003	8.4000e-003	59.4266
Worker	0.0168	9.5600e-003	0.1238	3.8000e-004	0.0505	2.1000e-004	0.0507	0.0134	1.9000e-004	0.0136		39.8476	39.8476	1.1400e-003	1.0900e-003	40.2008
<b>Total</b>	<b>0.0202</b>	<b>0.1415</b>	<b>0.1687</b>	<b>9.0000e-004</b>	<b>0.0683</b>	<b>9.9000e-004</b>	<b>0.0693</b>	<b>0.0185</b>	<b>9.4000e-004</b>	<b>0.0195</b>		<b>96.7009</b>	<b>96.7009</b>	<b>3.9000e-003</b>	<b>9.4900e-003</b>	<b>99.6274</b>

Solvang WWTP - Santa Barbara-South of Santa Ynez Range County, Summer

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

**3.4 Building Construction - 2026**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4897	12.0233	14.0072	0.0250		0.4700	0.4700		0.4498	0.4498	0.0000	2,289.8898	2,289.8898	0.4200		2,300.3887
<b>Total</b>	<b>1.4897</b>	<b>12.0233</b>	<b>14.0072</b>	<b>0.0250</b>		<b>0.4700</b>	<b>0.4700</b>		<b>0.4498</b>	<b>0.4498</b>	<b>0.0000</b>	<b>2,289.8898</b>	<b>2,289.8898</b>	<b>0.4200</b>		<b>2,300.3887</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.3700e-003	0.1319	0.0450	5.2000e-004	0.0178	7.8000e-004	0.0186	5.1200e-003	7.5000e-004	5.8600e-003		56.8533	56.8533	2.7600e-003	8.4000e-003	59.4266
Worker	0.0168	9.5600e-003	0.1238	3.8000e-004	0.0505	2.1000e-004	0.0507	0.0134	1.9000e-004	0.0136		39.8476	39.8476	1.1400e-003	1.0900e-003	40.2008
<b>Total</b>	<b>0.0202</b>	<b>0.1415</b>	<b>0.1687</b>	<b>9.0000e-004</b>	<b>0.0683</b>	<b>9.9000e-004</b>	<b>0.0693</b>	<b>0.0185</b>	<b>9.4000e-004</b>	<b>0.0195</b>		<b>96.7009</b>	<b>96.7009</b>	<b>3.9000e-003</b>	<b>9.4900e-003</b>	<b>99.6274</b>

Solvang WWTP - Santa Barbara-South of Santa Ynez Range County, Summer

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

**3.5 Paving - 2026**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7854	7.4371	11.6737	0.0179		0.3503	0.3503		0.3234	0.3234		1,710.0067	1,710.0067	0.5420		1,723.5556
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.7854</b>	<b>7.4371</b>	<b>11.6737</b>	<b>0.0179</b>		<b>0.3503</b>	<b>0.3503</b>		<b>0.3234</b>	<b>0.3234</b>		<b>1,710.0067</b>	<b>1,710.0067</b>	<b>0.5420</b>		<b>1,723.5556</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0316	0.0179	0.2320	7.1000e-004	0.0947	3.9000e-004	0.0951	0.0251	3.6000e-004	0.0255		74.7142	74.7142	2.1400e-003	2.0400e-003	75.3764
<b>Total</b>	<b>0.0316</b>	<b>0.0179</b>	<b>0.2320</b>	<b>7.1000e-004</b>	<b>0.0947</b>	<b>3.9000e-004</b>	<b>0.0951</b>	<b>0.0251</b>	<b>3.6000e-004</b>	<b>0.0255</b>		<b>74.7142</b>	<b>74.7142</b>	<b>2.1400e-003</b>	<b>2.0400e-003</b>	<b>75.3764</b>

Solvang WWTP - Santa Barbara-South of Santa Ynez Range County, Summer

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

**3.5 Paving - 2026**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7854	7.4371	11.6737	0.0179		0.3503	0.3503		0.3234	0.3234	0.0000	1,710.0067	1,710.0067	0.5420		1,723.5556
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.7854</b>	<b>7.4371</b>	<b>11.6737</b>	<b>0.0179</b>		<b>0.3503</b>	<b>0.3503</b>		<b>0.3234</b>	<b>0.3234</b>	<b>0.0000</b>	<b>1,710.0067</b>	<b>1,710.0067</b>	<b>0.5420</b>		<b>1,723.5556</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0316	0.0179	0.2320	7.1000e-004	0.0947	3.9000e-004	0.0951	0.0251	3.6000e-004	0.0255		74.7142	74.7142	2.1400e-003	2.0400e-003	75.3764
<b>Total</b>	<b>0.0316</b>	<b>0.0179</b>	<b>0.2320</b>	<b>7.1000e-004</b>	<b>0.0947</b>	<b>3.9000e-004</b>	<b>0.0951</b>	<b>0.0251</b>	<b>3.6000e-004</b>	<b>0.0255</b>		<b>74.7142</b>	<b>74.7142</b>	<b>2.1400e-003</b>	<b>2.0400e-003</b>	<b>75.3764</b>

Solvang WWTP - Santa Barbara-South of Santa Ynez Range County, Summer

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

**3.6 Architectural Coating - 2026**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	21.0682					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
<b>Total</b>	<b>21.2390</b>	<b>1.1455</b>	<b>1.8091</b>	<b>2.9700e-003</b>		<b>0.0515</b>	<b>0.0515</b>		<b>0.0515</b>	<b>0.0515</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>		<b>281.8319</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.2100e-003	2.3900e-003	0.0309	9.0000e-005	0.0126	5.0000e-005	0.0127	3.3500e-003	5.0000e-005	3.4000e-003		9.9619	9.9619	2.9000e-004	2.7000e-004	10.0502
<b>Total</b>	<b>4.2100e-003</b>	<b>2.3900e-003</b>	<b>0.0309</b>	<b>9.0000e-005</b>	<b>0.0126</b>	<b>5.0000e-005</b>	<b>0.0127</b>	<b>3.3500e-003</b>	<b>5.0000e-005</b>	<b>3.4000e-003</b>		<b>9.9619</b>	<b>9.9619</b>	<b>2.9000e-004</b>	<b>2.7000e-004</b>	<b>10.0502</b>

Solvang WWTP - Santa Barbara-South of Santa Ynez Range County, Summer

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

**3.6 Architectural Coating - 2026**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	21.0682					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319
<b>Total</b>	<b>21.2390</b>	<b>1.1455</b>	<b>1.8091</b>	<b>2.9700e-003</b>		<b>0.0515</b>	<b>0.0515</b>		<b>0.0515</b>	<b>0.0515</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>		<b>281.8319</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.2100e-003	2.3900e-003	0.0309	9.0000e-005	0.0126	5.0000e-005	0.0127	3.3500e-003	5.0000e-005	3.4000e-003		9.9619	9.9619	2.9000e-004	2.7000e-004	10.0502
<b>Total</b>	<b>4.2100e-003</b>	<b>2.3900e-003</b>	<b>0.0309</b>	<b>9.0000e-005</b>	<b>0.0126</b>	<b>5.0000e-005</b>	<b>0.0127</b>	<b>3.3500e-003</b>	<b>5.0000e-005</b>	<b>3.4000e-003</b>		<b>9.9619</b>	<b>9.9619</b>	<b>2.9000e-004</b>	<b>2.7000e-004</b>	<b>10.0502</b>

Solvang WWTP - Santa Barbara-South of Santa Ynez Range County, Summer

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

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	2.4400e-003	2.7000e-003	0.0193	4.0000e-005	4.5000e-003	3.0000e-005	4.5400e-003	1.2000e-003	3.0000e-005	1.2300e-003		4.1743	4.1743	2.8000e-004	2.1000e-004	4.2433
Unmitigated	2.4400e-003	2.7000e-003	0.0193	4.0000e-005	4.5000e-003	3.0000e-005	4.5400e-003	1.2000e-003	3.0000e-005	1.2300e-003		4.1743	4.1743	2.8000e-004	2.1000e-004	4.2433

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	1.00	1.00	1.00	2,128	2,128
Total	1.00	1.00	1.00	2,128	2,128

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Light Industry	6.60	5.50	6.40	59.00	28.00	13.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.503113	0.055239	0.207102	0.145750	0.026695	0.006629	0.011141	0.006248	0.000953	0.000569	0.029502	0.003405	0.003654



Solvang WWTP - Santa Barbara-South of Santa Ynez Range County, Summer

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

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0155	0.1406	0.1181	8.4000e-004		0.0107	0.0107		0.0107	0.0107		168.7671	168.7671	3.2300e-003	3.0900e-003	169.7700
NaturalGas Unmitigated	0.0155	0.1406	0.1181	8.4000e-004		0.0107	0.0107		0.0107	0.0107		168.7671	168.7671	3.2300e-003	3.0900e-003	169.7700

**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 Light Industry	1434.52	0.0155	0.1406	0.1181	8.4000e-004		0.0107	0.0107		0.0107	0.0107		168.7671	168.7671	3.2300e-003	3.0900e-003	169.7700
<b>Total</b>		<b>0.0155</b>	<b>0.1406</b>	<b>0.1181</b>	<b>8.4000e-004</b>		<b>0.0107</b>	<b>0.0107</b>		<b>0.0107</b>	<b>0.0107</b>		<b>168.7671</b>	<b>168.7671</b>	<b>3.2300e-003</b>	<b>3.0900e-003</b>	<b>169.7700</b>

Solvang WWTP - Santa Barbara-South of Santa Ynez Range County, Summer

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

**5.2 Energy by Land Use - NaturalGas**

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 Light Industry	1.43452	0.0155	0.1406	0.1181	8.4000e-004		0.0107	0.0107		0.0107	0.0107		168.7671	168.7671	3.2300e-003	3.0900e-003	169.7700
<b>Total</b>		<b>0.0155</b>	<b>0.1406</b>	<b>0.1181</b>	<b>8.4000e-004</b>		<b>0.0107</b>	<b>0.0107</b>		<b>0.0107</b>	<b>0.0107</b>		<b>168.7671</b>	<b>168.7671</b>	<b>3.2300e-003</b>	<b>3.0900e-003</b>	<b>169.7700</b>

**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	0.5552	2.0000e-005	2.0400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		4.3800e-003	4.3800e-003	1.0000e-005		4.6600e-003
Unmitigated	0.5552	2.0000e-005	2.0400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		4.3800e-003	4.3800e-003	1.0000e-005		4.6600e-003

Solvang WWTP - Santa Barbara-South of Santa Ynez Range County, Summer

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

**6.2 Area by SubCategory**

**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	0.1270					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.4280					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.9000e-004	2.0000e-005	2.0400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005			4.3800e-003	4.3800e-003	1.0000e-005	4.6600e-003
<b>Total</b>	<b>0.5552</b>	<b>2.0000e-005</b>	<b>2.0400e-003</b>	<b>0.0000</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>			<b>4.3800e-003</b>	<b>4.3800e-003</b>	<b>1.0000e-005</b>	<b>4.6600e-003</b>

Solvang WWTP - Santa Barbara-South of Santa Ynez Range County, Summer

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

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.1270					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.4280					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.9000e-004	2.0000e-005	2.0400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005			4.3800e-003	4.3800e-003	1.0000e-005	4.6600e-003
<b>Total</b>	<b>0.5552</b>	<b>2.0000e-005</b>	<b>2.0400e-003</b>	<b>0.0000</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>			<b>4.3800e-003</b>	<b>4.3800e-003</b>	<b>1.0000e-005</b>	<b>4.6600e-003</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

Solvang WWTP - Santa Barbara-South of Santa Ynez Range County, Summer

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

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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

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**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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**11.0 Vegetation**

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Winter



Solvang WWTP - Santa Barbara-South of Santa Ynez Range County, Winter

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

**Solvang WWTP**

**Santa Barbara-South of Santa Ynez Range County, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	20.00	1000sqft	2.35	20,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.7	<b>Precipitation Freq (Days)</b>	37
<b>Climate Zone</b>	4			<b>Operational Year</b>	2026
<b>Utility Company</b>	Pacific Gas and Electric Company				
<b>CO2 Intensity (lb/MW hr)</b>	203.98	<b>CH4 Intensity (lb/MW hr)</b>	0.033	<b>N2O Intensity (lb/MW hr)</b>	0.004

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

Project Characteristics -

Land Use - Construction area approximately 2.35 acres.

Construction Phase - Construction of the proposed Project is expected to begin in October 2024 and would be completed by October 2026.

Demolition -

Grading -

Vehicle Trips - Assumed 1 vehicle per day for maintenance.

Water And Wastewater - Project would have a 1.5 MG capacity.

Construction Off-road Equipment Mitigation - Fugitive dust requirements per SBCAPCD Rule 345.

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Fleet Mix -

Solvang WWTP - Santa Barbara-South of Santa Ynez Range County, Winter

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

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	10.00	22.00
tblConstructionPhase	NumDays	220.00	434.00
tblConstructionPhase	NumDays	20.00	23.00
tblConstructionPhase	NumDays	6.00	43.00
tblConstructionPhase	NumDays	10.00	22.00
tblGrading	MaterialExported	0.00	5,500.00
tblGrading	MaterialImported	0.00	2,500.00
tblLandUse	LotAcreage	0.46	2.35
tblVehicleTrips	ST_TR	1.99	0.05
tblVehicleTrips	SU_TR	5.00	0.05
tblVehicleTrips	WD_TR	4.96	0.05
tblWater	IndoorWaterUseRate	4,625,000.00	1,500,000.00

**2.0 Emissions Summary**

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Solvang WWTP - Santa Barbara-South of Santa Ynez Range County, Winter

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

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

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2024	1.4791	17.5422	13.8339	0.0349	7.5782	0.6344	8.1790	3.5565	0.5926	4.1103	0.0000	3,616.307 9	3,616.307 9	0.7622	0.2535	3,710.901 6
2025	1.5127	12.1745	14.1945	0.0259	0.0683	0.4710	0.5393	0.0185	0.4508	0.4693	0.0000	2,387.893 7	2,387.893 7	0.4240	9.8400e- 003	2,401.425 5
2026	21.2437	12.1703	14.1834	0.0259	0.0947	0.4710	0.5393	0.0251	0.4508	0.4693	0.0000	2,385.862 1	2,385.862 1	0.5443	9.6100e- 003	2,399.326 5
<b>Maximum</b>	<b>21.2437</b>	<b>17.5422</b>	<b>14.1945</b>	<b>0.0349</b>	<b>7.5782</b>	<b>0.6344</b>	<b>8.1790</b>	<b>3.5565</b>	<b>0.5926</b>	<b>4.1103</b>	<b>0.0000</b>	<b>3,616.307 9</b>	<b>3,616.307 9</b>	<b>0.7622</b>	<b>0.2535</b>	<b>3,710.901 6</b>

**Mitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2024	1.4791	17.5422	13.8339	0.0349	3.6676	0.6344	4.2685	1.6706	0.5926	2.2244	0.0000	3,616.307 9	3,616.307 9	0.7622	0.2535	3,710.901 6
2025	1.5127	12.1745	14.1945	0.0259	0.0683	0.4710	0.5393	0.0185	0.4508	0.4693	0.0000	2,387.893 7	2,387.893 7	0.4240	9.8400e- 003	2,401.425 5
2026	21.2437	12.1703	14.1834	0.0259	0.0947	0.4710	0.5393	0.0251	0.4508	0.4693	0.0000	2,385.862 1	2,385.862 1	0.5443	9.6100e- 003	2,399.326 5
<b>Maximum</b>	<b>21.2437</b>	<b>17.5422</b>	<b>14.1945</b>	<b>0.0349</b>	<b>3.6676</b>	<b>0.6344</b>	<b>4.2685</b>	<b>1.6706</b>	<b>0.5926</b>	<b>2.2244</b>	<b>0.0000</b>	<b>3,616.307 9</b>	<b>3,616.307 9</b>	<b>0.7622</b>	<b>0.2535</b>	<b>3,710.901 6</b>



Solvang WWTP - Santa Barbara-South of Santa Ynez Range County, Winter

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

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.5552	2.0000e-005	2.0400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		4.3800e-003	4.3800e-003	1.0000e-005		4.6600e-003
Energy	0.0155	0.1406	0.1181	8.4000e-004		0.0107	0.0107		0.0107	0.0107		168.7671	168.7671	3.2300e-003	3.0900e-003	169.7700
Mobile	2.3900e-003	2.9200e-003	0.0212	4.0000e-005	4.5000e-003	3.0000e-005	4.5400e-003	1.2000e-003	3.0000e-005	1.2300e-003		4.1132	4.1132	3.1000e-004	2.2000e-004	4.1865
<b>Total</b>	<b>0.5730</b>	<b>0.1436</b>	<b>0.1414</b>	<b>8.8000e-004</b>	<b>4.5000e-003</b>	<b>0.0107</b>	<b>0.0152</b>	<b>1.2000e-003</b>	<b>0.0107</b>	<b>0.0119</b>		<b>172.8847</b>	<b>172.8847</b>	<b>3.5500e-003</b>	<b>3.3100e-003</b>	<b>173.9612</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.5552	2.0000e-005	2.0400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		4.3800e-003	4.3800e-003	1.0000e-005		4.6600e-003
Energy	0.0155	0.1406	0.1181	8.4000e-004		0.0107	0.0107		0.0107	0.0107		168.7671	168.7671	3.2300e-003	3.0900e-003	169.7700
Mobile	2.3900e-003	2.9200e-003	0.0212	4.0000e-005	4.5000e-003	3.0000e-005	4.5400e-003	1.2000e-003	3.0000e-005	1.2300e-003		4.1132	4.1132	3.1000e-004	2.2000e-004	4.1865
<b>Total</b>	<b>0.5730</b>	<b>0.1436</b>	<b>0.1414</b>	<b>8.8000e-004</b>	<b>4.5000e-003</b>	<b>0.0107</b>	<b>0.0152</b>	<b>1.2000e-003</b>	<b>0.0107</b>	<b>0.0119</b>		<b>172.8847</b>	<b>172.8847</b>	<b>3.5500e-003</b>	<b>3.3100e-003</b>	<b>173.9612</b>

Solvang WWTP - Santa Barbara-South of Santa Ynez Range County, Winter

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

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

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	10/1/2024	10/31/2024	5	23	
2	Grading	Grading	11/1/2024	12/31/2024	5	43	
3	Building Construction	Building Construction	1/1/2025	8/31/2026	5	434	
4	Paving	Paving	9/1/2026	9/30/2026	5	22	
5	Architectural Coating	Architectural Coating	10/1/2026	10/30/2026	5	22	

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

**Acres of Grading (Grading Phase): 43**

**Acres of Paving: 0**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 30,000; Non-Residential Outdoor: 10,000; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37

Solvang WWTP - Santa Barbara-South of Santa Ynez Range County, Winter

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

Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Forklifts	2	7.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	5	13.00	0.00	55.00	8.30	6.40	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	1,000.00	8.30	6.40	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	8.00	3.00	0.00	8.30	6.40	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	8.30	6.40	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	2.00	0.00	0.00	8.30	6.40	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

Solvang WWTP - Santa Barbara-South of Santa Ynez Range County, Winter

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

**3.2 Demolition - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5216	0.0000	0.5216	0.0790	0.0000	0.0790			0.0000			0.0000
Off-Road	1.4397	13.8867	13.4879	0.0241		0.6311	0.6311		0.5895	0.5895		2,324.9459	2,324.9459	0.5884		2,339.6562
<b>Total</b>	<b>1.4397</b>	<b>13.8867</b>	<b>13.4879</b>	<b>0.0241</b>	<b>0.5216</b>	<b>0.6311</b>	<b>1.1527</b>	<b>0.0790</b>	<b>0.5895</b>	<b>0.6684</b>		<b>2,324.9459</b>	<b>2,324.9459</b>	<b>0.5884</b>		<b>2,339.6562</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	5.7400e-003	0.3812	0.1026	1.4200e-003	0.0416	2.9100e-003	0.0446	0.0114	2.7900e-003	0.0142		161.3896	161.3896	0.0118	0.0259	169.4001
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0337	0.0219	0.2434	6.5000e-004	0.0821	3.8000e-004	0.0825	0.0218	3.5000e-004	0.0221		66.5441	66.5441	2.4900e-003	2.2100e-003	67.2657
<b>Total</b>	<b>0.0394</b>	<b>0.4031</b>	<b>0.3460</b>	<b>2.0700e-003</b>	<b>0.1237</b>	<b>3.2900e-003</b>	<b>0.1270</b>	<b>0.0332</b>	<b>3.1400e-003</b>	<b>0.0363</b>		<b>227.9338</b>	<b>227.9338</b>	<b>0.0143</b>	<b>0.0281</b>	<b>236.6659</b>

Solvang WWTP - Santa Barbara-South of Santa Ynez Range County, Winter

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

**3.2 Demolition - 2024**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.2347	0.0000	0.2347	0.0355	0.0000	0.0355			0.0000			0.0000
Off-Road	1.4397	13.8867	13.4879	0.0241		0.6311	0.6311		0.5895	0.5895	0.0000	2,324.9459	2,324.9459	0.5884		2,339.6562
<b>Total</b>	<b>1.4397</b>	<b>13.8867</b>	<b>13.4879</b>	<b>0.0241</b>	<b>0.2347</b>	<b>0.6311</b>	<b>0.8658</b>	<b>0.0355</b>	<b>0.5895</b>	<b>0.6250</b>	<b>0.0000</b>	<b>2,324.9459</b>	<b>2,324.9459</b>	<b>0.5884</b>		<b>2,339.6562</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	5.7400e-003	0.3812	0.1026	1.4200e-003	0.0416	2.9100e-003	0.0446	0.0114	2.7900e-003	0.0142		161.3896	161.3896	0.0118	0.0259	169.4001
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0337	0.0219	0.2434	6.5000e-004	0.0821	3.8000e-004	0.0825	0.0218	3.5000e-004	0.0221		66.5441	66.5441	2.4900e-003	2.2100e-003	67.2657
<b>Total</b>	<b>0.0394</b>	<b>0.4031</b>	<b>0.3460</b>	<b>2.0700e-003</b>	<b>0.1237</b>	<b>3.2900e-003</b>	<b>0.1270</b>	<b>0.0332</b>	<b>3.1400e-003</b>	<b>0.0363</b>		<b>227.9338</b>	<b>227.9338</b>	<b>0.0143</b>	<b>0.0281</b>	<b>236.6659</b>

Solvang WWTP - Santa Barbara-South of Santa Ynez Range County, Winter

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

**3.3 Grading - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.1100	0.0000	7.1100	3.4289	0.0000	3.4289			0.0000			0.0000
Off-Road	1.3015	13.8178	8.6998	0.0206		0.5722	0.5722		0.5265	0.5265		1,995.5803	1,995.5803	0.6454		2,011.7155
<b>Total</b>	<b>1.3015</b>	<b>13.8178</b>	<b>8.6998</b>	<b>0.0206</b>	<b>7.1100</b>	<b>0.5722</b>	<b>7.6823</b>	<b>3.4289</b>	<b>0.5265</b>	<b>3.9554</b>		<b>1,995.5803</b>	<b>1,995.5803</b>	<b>0.6454</b>		<b>2,011.7155</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0558	3.7076	0.9975	0.0138	0.4050	0.0283	0.4333	0.1108	0.0271	0.1379		1,569.5398	1,569.5398	0.1149	0.2518	1,647.4432
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0259	0.0168	0.1872	5.0000e-004	0.0632	2.9000e-004	0.0635	0.0168	2.7000e-004	0.0170		51.1878	51.1878	1.9100e-003	1.7000e-003	51.7429
<b>Total</b>	<b>0.0817</b>	<b>3.7244</b>	<b>1.1848</b>	<b>0.0143</b>	<b>0.4681</b>	<b>0.0286</b>	<b>0.4967</b>	<b>0.1276</b>	<b>0.0274</b>	<b>0.1550</b>		<b>1,620.7276</b>	<b>1,620.7276</b>	<b>0.1168</b>	<b>0.2535</b>	<b>1,699.1861</b>



Solvang WWTP - Santa Barbara-South of Santa Ynez Range County, Winter

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

**3.3 Grading - 2024**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.1995	0.0000	3.1995	1.5430	0.0000	1.5430			0.0000			0.0000
Off-Road	1.3015	13.8178	8.6998	0.0206		0.5722	0.5722		0.5265	0.5265	0.0000	1,995.580 3	1,995.580 3	0.6454		2,011.715 5
<b>Total</b>	<b>1.3015</b>	<b>13.8178</b>	<b>8.6998</b>	<b>0.0206</b>	<b>3.1995</b>	<b>0.5722</b>	<b>3.7718</b>	<b>1.5430</b>	<b>0.5265</b>	<b>2.0695</b>	<b>0.0000</b>	<b>1,995.580 3</b>	<b>1,995.580 3</b>	<b>0.6454</b>		<b>2,011.715 5</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0558	3.7076	0.9975	0.0138	0.4050	0.0283	0.4333	0.1108	0.0271	0.1379		1,569.539 8	1,569.539 8	0.1149	0.2518	1,647.443 2
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0259	0.0168	0.1872	5.0000e-004	0.0632	2.9000e-004	0.0635	0.0168	2.7000e-004	0.0170		51.1878	51.1878	1.9100e-003	1.7000e-003	51.7429
<b>Total</b>	<b>0.0817</b>	<b>3.7244</b>	<b>1.1848</b>	<b>0.0143</b>	<b>0.4681</b>	<b>0.0286</b>	<b>0.4967</b>	<b>0.1276</b>	<b>0.0274</b>	<b>0.1550</b>		<b>1,620.727 6</b>	<b>1,620.727 6</b>	<b>0.1168</b>	<b>0.2535</b>	<b>1,699.186 1</b>

Solvang WWTP - Santa Barbara-South of Santa Ynez Range County, Winter

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

**3.4 Building Construction - 2025**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4897	12.0233	14.0072	0.0250		0.4700	0.4700		0.4498	0.4498		2,289.8898	2,289.8898	0.4200		2,300.3887
<b>Total</b>	<b>1.4897</b>	<b>12.0233</b>	<b>14.0072</b>	<b>0.0250</b>		<b>0.4700</b>	<b>0.4700</b>		<b>0.4498</b>	<b>0.4498</b>		<b>2,289.8898</b>	<b>2,289.8898</b>	<b>0.4200</b>		<b>2,300.3887</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.4400e-003	0.1391	0.0472	5.3000e-004	0.0178	8.0000e-004	0.0186	5.1200e-003	7.7000e-004	5.8900e-003		57.9891	57.9891	2.6600e-003	8.5700e-003	60.6086
Worker	0.0195	0.0121	0.1401	3.8000e-004	0.0505	2.2000e-004	0.0508	0.0134	2.1000e-004	0.0136		40.0147	40.0147	1.3900e-003	1.2700e-003	40.4283
<b>Total</b>	<b>0.0230</b>	<b>0.1512</b>	<b>0.1873</b>	<b>9.1000e-004</b>	<b>0.0683</b>	<b>1.0200e-003</b>	<b>0.0693</b>	<b>0.0185</b>	<b>9.8000e-004</b>	<b>0.0195</b>		<b>98.0039</b>	<b>98.0039</b>	<b>4.0500e-003</b>	<b>9.8400e-003</b>	<b>101.0369</b>

Solvang WWTP - Santa Barbara-South of Santa Ynez Range County, Winter

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

**3.4 Building Construction - 2025**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4897	12.0233	14.0072	0.0250		0.4700	0.4700		0.4498	0.4498	0.0000	2,289.8898	2,289.8898	0.4200		2,300.3887
<b>Total</b>	<b>1.4897</b>	<b>12.0233</b>	<b>14.0072</b>	<b>0.0250</b>		<b>0.4700</b>	<b>0.4700</b>		<b>0.4498</b>	<b>0.4498</b>	<b>0.0000</b>	<b>2,289.8898</b>	<b>2,289.8898</b>	<b>0.4200</b>		<b>2,300.3887</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.4400e-003	0.1391	0.0472	5.3000e-004	0.0178	8.0000e-004	0.0186	5.1200e-003	7.7000e-004	5.8900e-003		57.9891	57.9891	2.6600e-003	8.5700e-003	60.6086
Worker	0.0195	0.0121	0.1401	3.8000e-004	0.0505	2.2000e-004	0.0508	0.0134	2.1000e-004	0.0136		40.0147	40.0147	1.3900e-003	1.2700e-003	40.4283
<b>Total</b>	<b>0.0230</b>	<b>0.1512</b>	<b>0.1873</b>	<b>9.1000e-004</b>	<b>0.0683</b>	<b>1.0200e-003</b>	<b>0.0693</b>	<b>0.0185</b>	<b>9.8000e-004</b>	<b>0.0195</b>		<b>98.0039</b>	<b>98.0039</b>	<b>4.0500e-003</b>	<b>9.8400e-003</b>	<b>101.0369</b>

Solvang WWTP - Santa Barbara-South of Santa Ynez Range County, Winter

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

**3.4 Building Construction - 2026**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4897	12.0233	14.0072	0.0250		0.4700	0.4700		0.4498	0.4498		2,289.8898	2,289.8898	0.4200		2,300.3887
<b>Total</b>	<b>1.4897</b>	<b>12.0233</b>	<b>14.0072</b>	<b>0.0250</b>		<b>0.4700</b>	<b>0.4700</b>		<b>0.4498</b>	<b>0.4498</b>		<b>2,289.8898</b>	<b>2,289.8898</b>	<b>0.4200</b>		<b>2,300.3887</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.3000e-003	0.1361	0.0463	5.2000e-004	0.0178	7.8000e-004	0.0186	5.1200e-003	7.5000e-004	5.8700e-003		56.9317	56.9317	2.7500e-003	8.4200e-003	59.5102
Worker	0.0184	0.0109	0.1299	3.7000e-004	0.0505	2.1000e-004	0.0507	0.0134	1.9000e-004	0.0136		39.0406	39.0406	1.2700e-003	1.1900e-003	39.4276
<b>Total</b>	<b>0.0217</b>	<b>0.1470</b>	<b>0.1761</b>	<b>8.9000e-004</b>	<b>0.0683</b>	<b>9.9000e-004</b>	<b>0.0693</b>	<b>0.0185</b>	<b>9.4000e-004</b>	<b>0.0195</b>		<b>95.9723</b>	<b>95.9723</b>	<b>4.0200e-003</b>	<b>9.6100e-003</b>	<b>98.9378</b>

Solvang WWTP - Santa Barbara-South of Santa Ynez Range County, Winter

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

**3.4 Building Construction - 2026**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4897	12.0233	14.0072	0.0250		0.4700	0.4700		0.4498	0.4498	0.0000	2,289.8898	2,289.8898	0.4200		2,300.3887
<b>Total</b>	<b>1.4897</b>	<b>12.0233</b>	<b>14.0072</b>	<b>0.0250</b>		<b>0.4700</b>	<b>0.4700</b>		<b>0.4498</b>	<b>0.4498</b>	<b>0.0000</b>	<b>2,289.8898</b>	<b>2,289.8898</b>	<b>0.4200</b>		<b>2,300.3887</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.3000e-003	0.1361	0.0463	5.2000e-004	0.0178	7.8000e-004	0.0186	5.1200e-003	7.5000e-004	5.8700e-003		56.9317	56.9317	2.7500e-003	8.4200e-003	59.5102
Worker	0.0184	0.0109	0.1299	3.7000e-004	0.0505	2.1000e-004	0.0507	0.0134	1.9000e-004	0.0136		39.0406	39.0406	1.2700e-003	1.1900e-003	39.4276
<b>Total</b>	<b>0.0217</b>	<b>0.1470</b>	<b>0.1761</b>	<b>8.9000e-004</b>	<b>0.0683</b>	<b>9.9000e-004</b>	<b>0.0693</b>	<b>0.0185</b>	<b>9.4000e-004</b>	<b>0.0195</b>		<b>95.9723</b>	<b>95.9723</b>	<b>4.0200e-003</b>	<b>9.6100e-003</b>	<b>98.9378</b>

Solvang WWTP - Santa Barbara-South of Santa Ynez Range County, Winter

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

**3.5 Paving - 2026**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7854	7.4371	11.6737	0.0179		0.3503	0.3503		0.3234	0.3234		1,710.0067	1,710.0067	0.5420		1,723.5556
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.7854</b>	<b>7.4371</b>	<b>11.6737</b>	<b>0.0179</b>		<b>0.3503</b>	<b>0.3503</b>		<b>0.3234</b>	<b>0.3234</b>		<b>1,710.0067</b>	<b>1,710.0067</b>	<b>0.5420</b>		<b>1,723.5556</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0346	0.0205	0.2435	7.0000e-004	0.0947	3.9000e-004	0.0951	0.0251	3.6000e-004	0.0255		73.2011	73.2011	2.3800e-003	2.2400e-003	73.9267
<b>Total</b>	<b>0.0346</b>	<b>0.0205</b>	<b>0.2435</b>	<b>7.0000e-004</b>	<b>0.0947</b>	<b>3.9000e-004</b>	<b>0.0951</b>	<b>0.0251</b>	<b>3.6000e-004</b>	<b>0.0255</b>		<b>73.2011</b>	<b>73.2011</b>	<b>2.3800e-003</b>	<b>2.2400e-003</b>	<b>73.9267</b>

Solvang WWTP - Santa Barbara-South of Santa Ynez Range County, Winter

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

**3.5 Paving - 2026**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7854	7.4371	11.6737	0.0179		0.3503	0.3503		0.3234	0.3234	0.0000	1,710.0067	1,710.0067	0.5420		1,723.5556
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.7854</b>	<b>7.4371</b>	<b>11.6737</b>	<b>0.0179</b>		<b>0.3503</b>	<b>0.3503</b>		<b>0.3234</b>	<b>0.3234</b>	<b>0.0000</b>	<b>1,710.0067</b>	<b>1,710.0067</b>	<b>0.5420</b>		<b>1,723.5556</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0346	0.0205	0.2435	7.0000e-004	0.0947	3.9000e-004	0.0951	0.0251	3.6000e-004	0.0255		73.2011	73.2011	2.3800e-003	2.2400e-003	73.9267
<b>Total</b>	<b>0.0346</b>	<b>0.0205</b>	<b>0.2435</b>	<b>7.0000e-004</b>	<b>0.0947</b>	<b>3.9000e-004</b>	<b>0.0951</b>	<b>0.0251</b>	<b>3.6000e-004</b>	<b>0.0255</b>		<b>73.2011</b>	<b>73.2011</b>	<b>2.3800e-003</b>	<b>2.2400e-003</b>	<b>73.9267</b>

Solvang WWTP - Santa Barbara-South of Santa Ynez Range County, Winter

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

**3.6 Architectural Coating - 2026**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	21.0682					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
<b>Total</b>	<b>21.2390</b>	<b>1.1455</b>	<b>1.8091</b>	<b>2.9700e-003</b>		<b>0.0515</b>	<b>0.0515</b>		<b>0.0515</b>	<b>0.0515</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>		<b>281.8319</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.6100e-003	2.7300e-003	0.0325	9.0000e-005	0.0126	5.0000e-005	0.0127	3.3500e-003	5.0000e-005	3.4000e-003		9.7602	9.7602	3.2000e-004	3.0000e-004	9.8569
<b>Total</b>	<b>4.6100e-003</b>	<b>2.7300e-003</b>	<b>0.0325</b>	<b>9.0000e-005</b>	<b>0.0126</b>	<b>5.0000e-005</b>	<b>0.0127</b>	<b>3.3500e-003</b>	<b>5.0000e-005</b>	<b>3.4000e-003</b>		<b>9.7602</b>	<b>9.7602</b>	<b>3.2000e-004</b>	<b>3.0000e-004</b>	<b>9.8569</b>



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

**3.6 Architectural Coating - 2026**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	21.0682					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319
<b>Total</b>	<b>21.2390</b>	<b>1.1455</b>	<b>1.8091</b>	<b>2.9700e-003</b>		<b>0.0515</b>	<b>0.0515</b>		<b>0.0515</b>	<b>0.0515</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>		<b>281.8319</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.6100e-003	2.7300e-003	0.0325	9.0000e-005	0.0126	5.0000e-005	0.0127	3.3500e-003	5.0000e-005	3.4000e-003		9.7602	9.7602	3.2000e-004	3.0000e-004	9.8569
<b>Total</b>	<b>4.6100e-003</b>	<b>2.7300e-003</b>	<b>0.0325</b>	<b>9.0000e-005</b>	<b>0.0126</b>	<b>5.0000e-005</b>	<b>0.0127</b>	<b>3.3500e-003</b>	<b>5.0000e-005</b>	<b>3.4000e-003</b>		<b>9.7602</b>	<b>9.7602</b>	<b>3.2000e-004</b>	<b>3.0000e-004</b>	<b>9.8569</b>

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

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	2.3900e-003	2.9200e-003	0.0212	4.0000e-005	4.5000e-003	3.0000e-005	4.5400e-003	1.2000e-003	3.0000e-005	1.2300e-003		4.1132	4.1132	3.1000e-004	2.2000e-004	4.1865
Unmitigated	2.3900e-003	2.9200e-003	0.0212	4.0000e-005	4.5000e-003	3.0000e-005	4.5400e-003	1.2000e-003	3.0000e-005	1.2300e-003		4.1132	4.1132	3.1000e-004	2.2000e-004	4.1865

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	1.00	1.00	1.00	2,128	2,128
Total	1.00	1.00	1.00	2,128	2,128

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Light Industry	6.60	5.50	6.40	59.00	28.00	13.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.503113	0.055239	0.207102	0.145750	0.026695	0.006629	0.011141	0.006248	0.000953	0.000569	0.029502	0.003405	0.003654

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

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0155	0.1406	0.1181	8.4000e-004		0.0107	0.0107		0.0107	0.0107		168.7671	168.7671	3.2300e-003	3.0900e-003	169.7700
NaturalGas Unmitigated	0.0155	0.1406	0.1181	8.4000e-004		0.0107	0.0107		0.0107	0.0107		168.7671	168.7671	3.2300e-003	3.0900e-003	169.7700

**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 Light Industry	1434.52	0.0155	0.1406	0.1181	8.4000e-004		0.0107	0.0107		0.0107	0.0107		168.7671	168.7671	3.2300e-003	3.0900e-003	169.7700
<b>Total</b>		<b>0.0155</b>	<b>0.1406</b>	<b>0.1181</b>	<b>8.4000e-004</b>		<b>0.0107</b>	<b>0.0107</b>		<b>0.0107</b>	<b>0.0107</b>		<b>168.7671</b>	<b>168.7671</b>	<b>3.2300e-003</b>	<b>3.0900e-003</b>	<b>169.7700</b>

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

**5.2 Energy by Land Use - NaturalGas**

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Light Industry	1.43452	0.0155	0.1406	0.1181	8.4000e-004		0.0107	0.0107		0.0107	0.0107		168.7671	168.7671	3.2300e-003	3.0900e-003	169.7700
<b>Total</b>		<b>0.0155</b>	<b>0.1406</b>	<b>0.1181</b>	<b>8.4000e-004</b>		<b>0.0107</b>	<b>0.0107</b>		<b>0.0107</b>	<b>0.0107</b>		<b>168.7671</b>	<b>168.7671</b>	<b>3.2300e-003</b>	<b>3.0900e-003</b>	<b>169.7700</b>

**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	0.5552	2.0000e-005	2.0400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		4.3800e-003	4.3800e-003	1.0000e-005		4.6600e-003
Unmitigated	0.5552	2.0000e-005	2.0400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		4.3800e-003	4.3800e-003	1.0000e-005		4.6600e-003

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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	0.1270					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.4280					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.9000e-004	2.0000e-005	2.0400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005			4.3800e-003	4.3800e-003	1.0000e-005	4.6600e-003
<b>Total</b>	<b>0.5552</b>	<b>2.0000e-005</b>	<b>2.0400e-003</b>	<b>0.0000</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>			<b>4.3800e-003</b>	<b>4.3800e-003</b>	<b>1.0000e-005</b>	<b>4.6600e-003</b>

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

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.1270					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.4280					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.9000e-004	2.0000e-005	2.0400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005			4.3800e-003	4.3800e-003	1.0000e-005	4.6600e-003
<b>Total</b>	<b>0.5552</b>	<b>2.0000e-005</b>	<b>2.0400e-003</b>	<b>0.0000</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>			<b>4.3800e-003</b>	<b>4.3800e-003</b>	<b>1.0000e-005</b>	<b>4.6600e-003</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

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

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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

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**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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**11.0 Vegetation**

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Annual





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

**Solvang WWTP**

**Santa Barbara-South of Santa Ynez Range County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	20.00	1000sqft	2.35	20,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.7	<b>Precipitation Freq (Days)</b>	37
<b>Climate Zone</b>	4			<b>Operational Year</b>	2026
<b>Utility Company</b>	Pacific Gas and Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	203.98	<b>CH4 Intensity (lb/MWhr)</b>	0.033	<b>N2O Intensity (lb/MWhr)</b>	0.004

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

Project Characteristics -

Land Use - Construction area approximately 2.35 acres.

Construction Phase - Construction of the proposed Project is expected to begin in October 2024 and would be completed by October 2026.

Demolition -

Grading -

Vehicle Trips - Assumed 1 vehicle per day for maintenance.

Water And Wastewater - Project would have a 1.5 MG capacity.

Construction Off-road Equipment Mitigation - Fugitive dust requirements per SBCAPCD Rule 345.

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Fleet Mix -

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

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	10.00	22.00
tblConstructionPhase	NumDays	220.00	434.00
tblConstructionPhase	NumDays	20.00	23.00
tblConstructionPhase	NumDays	6.00	43.00
tblConstructionPhase	NumDays	10.00	22.00
tblGrading	MaterialExported	0.00	5,500.00
tblGrading	MaterialImported	0.00	2,500.00
tblLandUse	LotAcreage	0.46	2.35
tblVehicleTrips	ST_TR	1.99	0.05
tblVehicleTrips	SU_TR	5.00	0.05
tblVehicleTrips	WD_TR	4.96	0.05
tblWater	IndoorWaterUseRate	4,625,000.00	1,500,000.00

**2.0 Emissions Summary**

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

**2.1 Overall Construction**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2024	0.0467	0.5422	0.3713	1.0500e-003	0.1701	0.0202	0.1903	0.0777	0.0187	0.0964	0.0000	97.1549	97.1549	0.0212	5.2300e-003	99.2434
2025	0.1972	1.5888	1.8518	3.3900e-003	8.7300e-003	0.0615	0.0702	2.3700e-003	0.0588	0.0612	0.0000	282.6966	282.6966	0.0502	1.1600e-003	284.2974
2026	0.3733	1.1474	1.3777	2.4800e-003	6.9400e-003	0.0452	0.0521	1.8800e-003	0.0431	0.0450	0.0000	207.9233	207.9233	0.0389	7.8000e-004	209.1261
<b>Maximum</b>	<b>0.3733</b>	<b>1.5888</b>	<b>1.8518</b>	<b>3.3900e-003</b>	<b>0.1701</b>	<b>0.0615</b>	<b>0.1903</b>	<b>0.0777</b>	<b>0.0588</b>	<b>0.0964</b>	<b>0.0000</b>	<b>282.6966</b>	<b>282.6966</b>	<b>0.0502</b>	<b>5.2300e-003</b>	<b>284.2974</b>

**Mitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2024	0.0467	0.5422	0.3713	1.0500e-003	0.0828	0.0202	0.1030	0.0367	0.0187	0.0554	0.0000	97.1548	97.1548	0.0212	5.2300e-003	99.2434
2025	0.1972	1.5888	1.8518	3.3900e-003	8.7300e-003	0.0615	0.0702	2.3700e-003	0.0588	0.0612	0.0000	282.6963	282.6963	0.0502	1.1600e-003	284.2970
2026	0.3733	1.1474	1.3777	2.4800e-003	6.9400e-003	0.0452	0.0521	1.8800e-003	0.0431	0.0450	0.0000	207.9230	207.9230	0.0389	7.8000e-004	209.1259
<b>Maximum</b>	<b>0.3733</b>	<b>1.5888</b>	<b>1.8518</b>	<b>3.3900e-003</b>	<b>0.0828</b>	<b>0.0615</b>	<b>0.1030</b>	<b>0.0367</b>	<b>0.0588</b>	<b>0.0612</b>	<b>0.0000</b>	<b>282.6963</b>	<b>282.6963</b>	<b>0.0502</b>	<b>5.2300e-003</b>	<b>284.2970</b>

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	47.03	0.00	27.95	50.09	0.00	20.26	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	10-1-2024	12-31-2024	0.5869	0.5869
2	1-1-2025	3-31-2025	0.4399	0.4399
3	4-1-2025	6-30-2025	0.4446	0.4446
4	7-1-2025	9-30-2025	0.4495	0.4495
5	10-1-2025	12-31-2025	0.4497	0.4497
6	1-1-2026	3-31-2026	0.4398	0.4398
7	4-1-2026	6-30-2026	0.4444	0.4444
8	7-1-2026	9-30-2026	0.3914	0.3914
		Highest	0.5869	0.5869

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**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	0.1013	0.0000	1.8000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	3.6000e-004	3.6000e-004	0.0000	0.0000	3.8000e-004
Energy	2.8200e-003	0.0257	0.0216	1.5000e-004		1.9500e-003	1.9500e-003		1.9500e-003	1.9500e-003	0.0000	42.9301	42.9301	2.9600e-003	8.1000e-004	43.2444
Mobile	4.3000e-004	5.3000e-004	3.7100e-003	1.0000e-005	8.0000e-004	1.0000e-005	8.1000e-004	2.1000e-004	1.0000e-005	2.2000e-004	0.0000	0.6787	0.6787	5.0000e-005	4.0000e-005	0.6906
Waste						0.0000	0.0000		0.0000	0.0000	5.1501	0.0000	5.1501	0.2554	0.0000	11.5344
Water						0.0000	0.0000		0.0000	0.0000	0.5307	0.7510	1.2817	1.9500e-003	1.1700e-003	1.6787
<b>Total</b>	<b>0.1046</b>	<b>0.0262</b>	<b>0.0255</b>	<b>1.6000e-004</b>	<b>8.0000e-004</b>	<b>1.9600e-003</b>	<b>2.7600e-003</b>	<b>2.1000e-004</b>	<b>1.9600e-003</b>	<b>2.1700e-003</b>	<b>5.6808</b>	<b>44.3601</b>	<b>50.0409</b>	<b>0.2603</b>	<b>2.0200e-003</b>	<b>57.1485</b>

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

**2.2 Overall Operational**

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.1013	0.0000	1.8000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	3.6000e-004	3.6000e-004	0.0000	0.0000	3.8000e-004
Energy	2.8200e-003	0.0257	0.0216	1.5000e-004		1.9500e-003	1.9500e-003		1.9500e-003	1.9500e-003	0.0000	42.9301	42.9301	2.9600e-003	8.1000e-004	43.2444
Mobile	4.3000e-004	5.3000e-004	3.7100e-003	1.0000e-005	8.0000e-004	1.0000e-005	8.1000e-004	2.1000e-004	1.0000e-005	2.2000e-004	0.0000	0.6787	0.6787	5.0000e-005	4.0000e-005	0.6906
Waste						0.0000	0.0000		0.0000	0.0000	5.1501	0.0000	5.1501	0.2554	0.0000	11.5344
Water						0.0000	0.0000		0.0000	0.0000	0.5307	0.7510	1.2817	1.9500e-003	1.1700e-003	1.6787
<b>Total</b>	<b>0.1046</b>	<b>0.0262</b>	<b>0.0255</b>	<b>1.6000e-004</b>	<b>8.0000e-004</b>	<b>1.9600e-003</b>	<b>2.7600e-003</b>	<b>2.1000e-004</b>	<b>1.9600e-003</b>	<b>2.1700e-003</b>	<b>5.6808</b>	<b>44.3601</b>	<b>50.0409</b>	<b>0.2603</b>	<b>2.0200e-003</b>	<b>57.1485</b>

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

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	10/1/2024	10/31/2024	5	23	
2	Grading	Grading	11/1/2024	12/31/2024	5	43	
3	Building Construction	Building Construction	1/1/2025	8/31/2026	5	434	

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4	Paving	Paving	9/1/2026	9/30/2026	5	22
5	Architectural Coating	Architectural Coating	10/1/2026	10/30/2026	5	22

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

**Acres of Grading (Grading Phase): 43**

**Acres of Paving: 0**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 30,000; Non-Residential Outdoor: 10,000; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Forklifts	2	7.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

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**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
Demolition	5	13.00	0.00	55.00	8.30	6.40	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	1,000.00	8.30	6.40	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	8.00	3.00	0.00	8.30	6.40	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	8.30	6.40	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	2.00	0.00	0.00	8.30	6.40	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

**3.2 Demolition - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					6.0000e-003	0.0000	6.0000e-003	9.1000e-004	0.0000	9.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0166	0.1597	0.1551	2.8000e-004		7.2600e-003	7.2600e-003		6.7800e-003	6.7800e-003	0.0000	24.2553	24.2553	6.1400e-003	0.0000	24.4088
<b>Total</b>	<b>0.0166</b>	<b>0.1597</b>	<b>0.1551</b>	<b>2.8000e-004</b>	<b>6.0000e-003</b>	<b>7.2600e-003</b>	<b>0.0133</b>	<b>9.1000e-004</b>	<b>6.7800e-003</b>	<b>7.6900e-003</b>	<b>0.0000</b>	<b>24.2553</b>	<b>24.2553</b>	<b>6.1400e-003</b>	<b>0.0000</b>	<b>24.4088</b>



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

**3.2 Demolition - 2024**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	7.0000e-005	4.4200e-003	1.1700e-003	2.0000e-005	4.7000e-004	3.0000e-005	5.0000e-004	1.3000e-004	3.0000e-005	1.6000e-004	0.0000	1.6830	1.6830	1.2000e-004	2.7000e-004	1.7665
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.6000e-004	2.5000e-004	2.7200e-003	1.0000e-005	9.2000e-004	0.0000	9.3000e-004	2.5000e-004	0.0000	2.5000e-004	0.0000	0.6950	0.6950	2.0000e-005	2.0000e-005	0.7023
<b>Total</b>	<b>4.3000e-004</b>	<b>4.6700e-003</b>	<b>3.8900e-003</b>	<b>3.0000e-005</b>	<b>1.3900e-003</b>	<b>3.0000e-005</b>	<b>1.4300e-003</b>	<b>3.8000e-004</b>	<b>3.0000e-005</b>	<b>4.1000e-004</b>	<b>0.0000</b>	<b>2.3779</b>	<b>2.3779</b>	<b>1.4000e-004</b>	<b>2.9000e-004</b>	<b>2.4688</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.7000e-003	0.0000	2.7000e-003	4.1000e-004	0.0000	4.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0166	0.1597	0.1551	2.8000e-004		7.2600e-003	7.2600e-003		6.7800e-003	6.7800e-003	0.0000	24.2553	24.2553	6.1400e-003	0.0000	24.4087
<b>Total</b>	<b>0.0166</b>	<b>0.1597</b>	<b>0.1551</b>	<b>2.8000e-004</b>	<b>2.7000e-003</b>	<b>7.2600e-003</b>	<b>9.9600e-003</b>	<b>4.1000e-004</b>	<b>6.7800e-003</b>	<b>7.1900e-003</b>	<b>0.0000</b>	<b>24.2553</b>	<b>24.2553</b>	<b>6.1400e-003</b>	<b>0.0000</b>	<b>24.4087</b>

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**3.2 Demolition - 2024**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	7.0000e-005	4.4200e-003	1.1700e-003	2.0000e-005	4.7000e-004	3.0000e-005	5.0000e-004	1.3000e-004	3.0000e-005	1.6000e-004	0.0000	1.6830	1.6830	1.2000e-004	2.7000e-004	1.7665
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.6000e-004	2.5000e-004	2.7200e-003	1.0000e-005	9.2000e-004	0.0000	9.3000e-004	2.5000e-004	0.0000	2.5000e-004	0.0000	0.6950	0.6950	2.0000e-005	2.0000e-005	0.7023
<b>Total</b>	<b>4.3000e-004</b>	<b>4.6700e-003</b>	<b>3.8900e-003</b>	<b>3.0000e-005</b>	<b>1.3900e-003</b>	<b>3.0000e-005</b>	<b>1.4300e-003</b>	<b>3.8000e-004</b>	<b>3.0000e-005</b>	<b>4.1000e-004</b>	<b>0.0000</b>	<b>2.3779</b>	<b>2.3779</b>	<b>1.4000e-004</b>	<b>2.9000e-004</b>	<b>2.4688</b>

**3.3 Grading - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1529	0.0000	0.1529	0.0737	0.0000	0.0737	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0280	0.2971	0.1871	4.4000e-004		0.0123	0.0123		0.0113	0.0113	0.0000	38.9227	38.9227	0.0126	0.0000	39.2375
<b>Total</b>	<b>0.0280</b>	<b>0.2971</b>	<b>0.1871</b>	<b>4.4000e-004</b>	<b>0.1529</b>	<b>0.0123</b>	<b>0.1652</b>	<b>0.0737</b>	<b>0.0113</b>	<b>0.0850</b>	<b>0.0000</b>	<b>38.9227</b>	<b>38.9227</b>	<b>0.0126</b>	<b>0.0000</b>	<b>39.2375</b>

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**3.3 Grading - 2024**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.2300e-003	0.0804	0.0213	3.0000e-004	8.5400e-003	6.1000e-004	9.1500e-003	2.3400e-003	5.8000e-004	2.9200e-003	0.0000	30.5995	30.5995	2.2400e-003	4.9100e-003	32.1184
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.2000e-004	3.5000e-004	3.9200e-003	1.0000e-005	1.3300e-003	1.0000e-005	1.3300e-003	3.5000e-004	1.0000e-005	3.6000e-004	0.0000	0.9994	0.9994	4.0000e-005	3.0000e-005	1.0100
<b>Total</b>	<b>1.7500e-003</b>	<b>0.0807</b>	<b>0.0252</b>	<b>3.1000e-004</b>	<b>9.8700e-003</b>	<b>6.2000e-004</b>	<b>0.0105</b>	<b>2.6900e-003</b>	<b>5.9000e-004</b>	<b>3.2800e-003</b>	<b>0.0000</b>	<b>31.5989</b>	<b>31.5989</b>	<b>2.2800e-003</b>	<b>4.9400e-003</b>	<b>33.1284</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0688	0.0000	0.0688	0.0332	0.0000	0.0332	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0280	0.2971	0.1871	4.4000e-004		0.0123	0.0123		0.0113	0.0113	0.0000	38.9227	38.9227	0.0126	0.0000	39.2374
<b>Total</b>	<b>0.0280</b>	<b>0.2971</b>	<b>0.1871</b>	<b>4.4000e-004</b>	<b>0.0688</b>	<b>0.0123</b>	<b>0.0811</b>	<b>0.0332</b>	<b>0.0113</b>	<b>0.0445</b>	<b>0.0000</b>	<b>38.9227</b>	<b>38.9227</b>	<b>0.0126</b>	<b>0.0000</b>	<b>39.2374</b>

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**3.3 Grading - 2024**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.2300e-003	0.0804	0.0213	3.0000e-004	8.5400e-003	6.1000e-004	9.1500e-003	2.3400e-003	5.8000e-004	2.9200e-003	0.0000	30.5995	30.5995	2.2400e-003	4.9100e-003	32.1184
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.2000e-004	3.5000e-004	3.9200e-003	1.0000e-005	1.3300e-003	1.0000e-005	1.3300e-003	3.5000e-004	1.0000e-005	3.6000e-004	0.0000	0.9994	0.9994	4.0000e-005	3.0000e-005	1.0100
<b>Total</b>	<b>1.7500e-003</b>	<b>0.0807</b>	<b>0.0252</b>	<b>3.1000e-004</b>	<b>9.8700e-003</b>	<b>6.2000e-004</b>	<b>0.0105</b>	<b>2.6900e-003</b>	<b>5.9000e-004</b>	<b>3.2800e-003</b>	<b>0.0000</b>	<b>31.5989</b>	<b>31.5989</b>	<b>2.2800e-003</b>	<b>4.9400e-003</b>	<b>33.1284</b>

**3.4 Building Construction - 2025**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1944	1.5690	1.8279	3.2700e-003		0.0613	0.0613		0.0587	0.0587	0.0000	271.0946	271.0946	0.0497	0.0000	272.3375
<b>Total</b>	<b>0.1944</b>	<b>1.5690</b>	<b>1.8279</b>	<b>3.2700e-003</b>		<b>0.0613</b>	<b>0.0613</b>		<b>0.0587</b>	<b>0.0587</b>	<b>0.0000</b>	<b>271.0946</b>	<b>271.0946</b>	<b>0.0497</b>	<b>0.0000</b>	<b>272.3375</b>

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**3.4 Building Construction - 2025**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.5000e-004	0.0182	6.0700e-003	7.0000e-005	2.2800e-003	1.0000e-004	2.3800e-003	6.6000e-004	1.0000e-004	7.6000e-004	0.0000	6.8599	6.8599	3.2000e-004	1.0100e-003	7.1697
Worker	2.3700e-003	1.5400e-003	0.0178	5.0000e-005	6.4500e-003	3.0000e-005	6.4800e-003	1.7100e-003	3.0000e-005	1.7400e-003	0.0000	4.7422	4.7422	1.6000e-004	1.5000e-004	4.7901
<b>Total</b>	<b>2.8200e-003</b>	<b>0.0198</b>	<b>0.0239</b>	<b>1.2000e-004</b>	<b>8.7300e-003</b>	<b>1.3000e-004</b>	<b>8.8600e-003</b>	<b>2.3700e-003</b>	<b>1.3000e-004</b>	<b>2.5000e-003</b>	<b>0.0000</b>	<b>11.6021</b>	<b>11.6021</b>	<b>4.8000e-004</b>	<b>1.1600e-003</b>	<b>11.9599</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1944	1.5690	1.8279	3.2700e-003		0.0613	0.0613		0.0587	0.0587	0.0000	271.0943	271.0943	0.0497	0.0000	272.3372
<b>Total</b>	<b>0.1944</b>	<b>1.5690</b>	<b>1.8279</b>	<b>3.2700e-003</b>		<b>0.0613</b>	<b>0.0613</b>		<b>0.0587</b>	<b>0.0587</b>	<b>0.0000</b>	<b>271.0943</b>	<b>271.0943</b>	<b>0.0497</b>	<b>0.0000</b>	<b>272.3372</b>

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**3.4 Building Construction - 2025**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.5000e-004	0.0182	6.0700e-003	7.0000e-005	2.2800e-003	1.0000e-004	2.3800e-003	6.6000e-004	1.0000e-004	7.6000e-004	0.0000	6.8599	6.8599	3.2000e-004	1.0100e-003	7.1697
Worker	2.3700e-003	1.5400e-003	0.0178	5.0000e-005	6.4500e-003	3.0000e-005	6.4800e-003	1.7100e-003	3.0000e-005	1.7400e-003	0.0000	4.7422	4.7422	1.6000e-004	1.5000e-004	4.7901
<b>Total</b>	<b>2.8200e-003</b>	<b>0.0198</b>	<b>0.0239</b>	<b>1.2000e-004</b>	<b>8.7300e-003</b>	<b>1.3000e-004</b>	<b>8.8600e-003</b>	<b>2.3700e-003</b>	<b>1.3000e-004</b>	<b>2.5000e-003</b>	<b>0.0000</b>	<b>11.6021</b>	<b>11.6021</b>	<b>4.8000e-004</b>	<b>1.1600e-003</b>	<b>11.9599</b>

**3.4 Building Construction - 2026**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1289	1.0400	1.2116	2.1700e-003		0.0407	0.0407		0.0389	0.0389	0.0000	179.6910	179.6910	0.0330	0.0000	180.5149
<b>Total</b>	<b>0.1289</b>	<b>1.0400</b>	<b>1.2116</b>	<b>2.1700e-003</b>		<b>0.0407</b>	<b>0.0407</b>		<b>0.0389</b>	<b>0.0389</b>	<b>0.0000</b>	<b>179.6910</b>	<b>179.6910</b>	<b>0.0330</b>	<b>0.0000</b>	<b>180.5149</b>

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**3.4 Building Construction - 2026**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.9000e-004	0.0118	3.9500e-003	4.0000e-005	1.5100e-003	7.0000e-005	1.5800e-003	4.4000e-004	6.0000e-005	5.0000e-004	0.0000	4.4639	4.4639	2.2000e-004	6.6000e-004	4.6661
Worker	1.4800e-003	9.2000e-004	0.0109	3.0000e-005	4.2700e-003	2.0000e-005	4.2900e-003	1.1400e-003	2.0000e-005	1.1500e-003	0.0000	3.0668	3.0668	1.0000e-004	9.0000e-005	3.0965
<b>Total</b>	<b>1.7700e-003</b>	<b>0.0127</b>	<b>0.0149</b>	<b>7.0000e-005</b>	<b>5.7800e-003</b>	<b>9.0000e-005</b>	<b>5.8700e-003</b>	<b>1.5800e-003</b>	<b>8.0000e-005</b>	<b>1.6500e-003</b>	<b>0.0000</b>	<b>7.5307</b>	<b>7.5307</b>	<b>3.2000e-004</b>	<b>7.5000e-004</b>	<b>7.7626</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1289	1.0400	1.2116	2.1700e-003		0.0407	0.0407		0.0389	0.0389	0.0000	179.6908	179.6908	0.0330	0.0000	180.5147
<b>Total</b>	<b>0.1289</b>	<b>1.0400</b>	<b>1.2116</b>	<b>2.1700e-003</b>		<b>0.0407</b>	<b>0.0407</b>		<b>0.0389</b>	<b>0.0389</b>	<b>0.0000</b>	<b>179.6908</b>	<b>179.6908</b>	<b>0.0330</b>	<b>0.0000</b>	<b>180.5147</b>

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**3.4 Building Construction - 2026**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.9000e-004	0.0118	3.9500e-003	4.0000e-005	1.5100e-003	7.0000e-005	1.5800e-003	4.4000e-004	6.0000e-005	5.0000e-004	0.0000	4.4639	4.4639	2.2000e-004	6.6000e-004	4.6661
Worker	1.4800e-003	9.2000e-004	0.0109	3.0000e-005	4.2700e-003	2.0000e-005	4.2900e-003	1.1400e-003	2.0000e-005	1.1500e-003	0.0000	3.0668	3.0668	1.0000e-004	9.0000e-005	3.0965
<b>Total</b>	<b>1.7700e-003</b>	<b>0.0127</b>	<b>0.0149</b>	<b>7.0000e-005</b>	<b>5.7800e-003</b>	<b>9.0000e-005</b>	<b>5.8700e-003</b>	<b>1.5800e-003</b>	<b>8.0000e-005</b>	<b>1.6500e-003</b>	<b>0.0000</b>	<b>7.5307</b>	<b>7.5307</b>	<b>3.2000e-004</b>	<b>7.5000e-004</b>	<b>7.7626</b>

**3.5 Paving - 2026**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	8.6400e-003	0.0818	0.1284	2.0000e-004		3.8500e-003	3.8500e-003		3.5600e-003	3.5600e-003	0.0000	17.0642	17.0642	5.4100e-003	0.0000	17.1994
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>8.6400e-003</b>	<b>0.0818</b>	<b>0.1284</b>	<b>2.0000e-004</b>		<b>3.8500e-003</b>	<b>3.8500e-003</b>		<b>3.5600e-003</b>	<b>3.5600e-003</b>	<b>0.0000</b>	<b>17.0642</b>	<b>17.0642</b>	<b>5.4100e-003</b>	<b>0.0000</b>	<b>17.1994</b>



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**3.5 Paving - 2026**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.5000e-004	2.2000e-004	2.6000e-003	1.0000e-005	1.0200e-003	0.0000	1.0200e-003	2.7000e-004	0.0000	2.7000e-004	0.0000	0.7312	0.7312	2.0000e-005	2.0000e-005	0.7383
<b>Total</b>	<b>3.5000e-004</b>	<b>2.2000e-004</b>	<b>2.6000e-003</b>	<b>1.0000e-005</b>	<b>1.0200e-003</b>	<b>0.0000</b>	<b>1.0200e-003</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>0.7312</b>	<b>0.7312</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.7383</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	8.6400e-003	0.0818	0.1284	2.0000e-004		3.8500e-003	3.8500e-003		3.5600e-003	3.5600e-003	0.0000	17.0642	17.0642	5.4100e-003	0.0000	17.1994
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>8.6400e-003</b>	<b>0.0818</b>	<b>0.1284</b>	<b>2.0000e-004</b>		<b>3.8500e-003</b>	<b>3.8500e-003</b>		<b>3.5600e-003</b>	<b>3.5600e-003</b>	<b>0.0000</b>	<b>17.0642</b>	<b>17.0642</b>	<b>5.4100e-003</b>	<b>0.0000</b>	<b>17.1994</b>

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**3.5 Paving - 2026**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.5000e-004	2.2000e-004	2.6000e-003	1.0000e-005	1.0200e-003	0.0000	1.0200e-003	2.7000e-004	0.0000	2.7000e-004	0.0000	0.7312	0.7312	2.0000e-005	2.0000e-005	0.7383
<b>Total</b>	<b>3.5000e-004</b>	<b>2.2000e-004</b>	<b>2.6000e-003</b>	<b>1.0000e-005</b>	<b>1.0200e-003</b>	<b>0.0000</b>	<b>1.0200e-003</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>0.7312</b>	<b>0.7312</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.7383</b>

**3.6 Architectural Coating - 2026**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.2318					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.8800e-003	0.0126	0.0199	3.0000e-005		5.7000e-004	5.7000e-004		5.7000e-004	5.7000e-004	0.0000	2.8086	2.8086	1.5000e-004	0.0000	2.8124
<b>Total</b>	<b>0.2336</b>	<b>0.0126</b>	<b>0.0199</b>	<b>3.0000e-005</b>		<b>5.7000e-004</b>	<b>5.7000e-004</b>		<b>5.7000e-004</b>	<b>5.7000e-004</b>	<b>0.0000</b>	<b>2.8086</b>	<b>2.8086</b>	<b>1.5000e-004</b>	<b>0.0000</b>	<b>2.8124</b>

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**3.6 Architectural Coating - 2026**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.0000e-005	3.0000e-005	3.5000e-004	0.0000	1.4000e-004	0.0000	1.4000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.0975	0.0975	0.0000	0.0000	0.0984
<b>Total</b>	<b>5.0000e-005</b>	<b>3.0000e-005</b>	<b>3.5000e-004</b>	<b>0.0000</b>	<b>1.4000e-004</b>	<b>0.0000</b>	<b>1.4000e-004</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>0.0975</b>	<b>0.0975</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0984</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.2318					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.8800e-003	0.0126	0.0199	3.0000e-005		5.7000e-004	5.7000e-004		5.7000e-004	5.7000e-004	0.0000	2.8086	2.8086	1.5000e-004	0.0000	2.8124
<b>Total</b>	<b>0.2336</b>	<b>0.0126</b>	<b>0.0199</b>	<b>3.0000e-005</b>		<b>5.7000e-004</b>	<b>5.7000e-004</b>		<b>5.7000e-004</b>	<b>5.7000e-004</b>	<b>0.0000</b>	<b>2.8086</b>	<b>2.8086</b>	<b>1.5000e-004</b>	<b>0.0000</b>	<b>2.8124</b>

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**3.6 Architectural Coating - 2026**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.0000e-005	3.0000e-005	3.5000e-004	0.0000	1.4000e-004	0.0000	1.4000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.0975	0.0975	0.0000	0.0000	0.0984
<b>Total</b>	<b>5.0000e-005</b>	<b>3.0000e-005</b>	<b>3.5000e-004</b>	<b>0.0000</b>	<b>1.4000e-004</b>	<b>0.0000</b>	<b>1.4000e-004</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>0.0975</b>	<b>0.0975</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0984</b>

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**4.0 Operational Detail - Mobile**

**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	4.3000e-004	5.3000e-004	3.7100e-003	1.0000e-005	8.0000e-004	1.0000e-005	8.1000e-004	2.1000e-004	1.0000e-005	2.2000e-004	0.0000	0.6787	0.6787	5.0000e-005	4.0000e-005	0.6906
Unmitigated	4.3000e-004	5.3000e-004	3.7100e-003	1.0000e-005	8.0000e-004	1.0000e-005	8.1000e-004	2.1000e-004	1.0000e-005	2.2000e-004	0.0000	0.6787	0.6787	5.0000e-005	4.0000e-005	0.6906

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	1.00	1.00	1.00	2,128	2,128
Total	1.00	1.00	1.00	2,128	2,128

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Light Industry	6.60	5.50	6.40	59.00	28.00	13.00	92	5	3

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.503113	0.055239	0.207102	0.145750	0.026695	0.006629	0.011141	0.006248	0.000953	0.000569	0.029502	0.003405	0.003654

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**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	14.9889	14.9889	2.4200e-003	2.9000e-004	15.1371
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	14.9889	14.9889	2.4200e-003	2.9000e-004	15.1371
NaturalGas Mitigated	2.8200e-003	0.0257	0.0216	1.5000e-004		1.9500e-003	1.9500e-003		1.9500e-003	1.9500e-003	0.0000	27.9413	27.9413	5.4000e-004	5.1000e-004	28.1073
NaturalGas Unmitigated	2.8200e-003	0.0257	0.0216	1.5000e-004		1.9500e-003	1.9500e-003		1.9500e-003	1.9500e-003	0.0000	27.9413	27.9413	5.4000e-004	5.1000e-004	28.1073

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

**Unmitigated**

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Light Industry	523600	2.8200e-003	0.0257	0.0216	1.5000e-004		1.9500e-003	1.9500e-003		1.9500e-003	1.9500e-003	0.0000	27.9413	27.9413	5.4000e-004	5.1000e-004	28.1073
<b>Total</b>		<b>2.8200e-003</b>	<b>0.0257</b>	<b>0.0216</b>	<b>1.5000e-004</b>		<b>1.9500e-003</b>	<b>1.9500e-003</b>		<b>1.9500e-003</b>	<b>1.9500e-003</b>	<b>0.0000</b>	<b>27.9413</b>	<b>27.9413</b>	<b>5.4000e-004</b>	<b>5.1000e-004</b>	<b>28.1073</b>

**Mitigated**

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Light Industry	523600	2.8200e-003	0.0257	0.0216	1.5000e-004		1.9500e-003	1.9500e-003		1.9500e-003	1.9500e-003	0.0000	27.9413	27.9413	5.4000e-004	5.1000e-004	28.1073
<b>Total</b>		<b>2.8200e-003</b>	<b>0.0257</b>	<b>0.0216</b>	<b>1.5000e-004</b>		<b>1.9500e-003</b>	<b>1.9500e-003</b>		<b>1.9500e-003</b>	<b>1.9500e-003</b>	<b>0.0000</b>	<b>27.9413</b>	<b>27.9413</b>	<b>5.4000e-004</b>	<b>5.1000e-004</b>	<b>28.1073</b>

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**5.3 Energy by Land Use - Electricity**

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Light Industry	162000	14.9889	2.4200e-003	2.9000e-004	15.1371
<b>Total</b>		<b>14.9889</b>	<b>2.4200e-003</b>	<b>2.9000e-004</b>	<b>15.1371</b>

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Light Industry	162000	14.9889	2.4200e-003	2.9000e-004	15.1371
<b>Total</b>		<b>14.9889</b>	<b>2.4200e-003</b>	<b>2.9000e-004</b>	<b>15.1371</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**



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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.1013	0.0000	1.8000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	3.6000e-004	3.6000e-004	0.0000	0.0000	3.8000e-004
Unmitigated	0.1013	0.0000	1.8000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	3.6000e-004	3.6000e-004	0.0000	0.0000	3.8000e-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	0.0232					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0781					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.0000e-005	0.0000	1.8000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	3.6000e-004	3.6000e-004	0.0000	0.0000	3.8000e-004
<b>Total</b>	<b>0.1013</b>	<b>0.0000</b>	<b>1.8000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>3.6000e-004</b>	<b>3.6000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>3.8000e-004</b>

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**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0232					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0781					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.0000e-005	0.0000	1.8000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	3.6000e-004	3.6000e-004	0.0000	0.0000	3.8000e-004
<b>Total</b>	<b>0.1013</b>	<b>0.0000</b>	<b>1.8000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>3.6000e-004</b>	<b>3.6000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>3.8000e-004</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

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

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	1.2817	1.9500e-003	1.1700e-003	1.6787
Unmitigated	1.2817	1.9500e-003	1.1700e-003	1.6787

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Light Industry	1.5 / 0	1.2817	1.9500e-003	1.1700e-003	1.6787
<b>Total</b>		<b>1.2817</b>	<b>1.9500e-003</b>	<b>1.1700e-003</b>	<b>1.6787</b>

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

**7.2 Water by Land Use**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Light Industry	1.5 / 0	1.2817	1.9500e-003	1.1700e-003	1.6787
<b>Total</b>		<b>1.2817</b>	<b>1.9500e-003</b>	<b>1.1700e-003</b>	<b>1.6787</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	5.1501	0.2554	0.0000	11.5344
Unmitigated	5.1501	0.2554	0.0000	11.5344

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**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	24.8	5.1501	0.2554	0.0000	11.5344
<b>Total</b>		<b>5.1501</b>	<b>0.2554</b>	<b>0.0000</b>	<b>11.5344</b>

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	24.8	5.1501	0.2554	0.0000	11.5344
<b>Total</b>		<b>5.1501</b>	<b>0.2554</b>	<b>0.0000</b>	<b>11.5344</b>

**9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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**11.0 Vegetation**

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