

**Hollandia Dairy CUP Modification  
Technical Appendices**

**Appendix B  
Air Quality Analysis**

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September 10, 2021

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**RE: Hollandia Dairy Modernization Air Quality Assessment Letter – City of San Marcos**

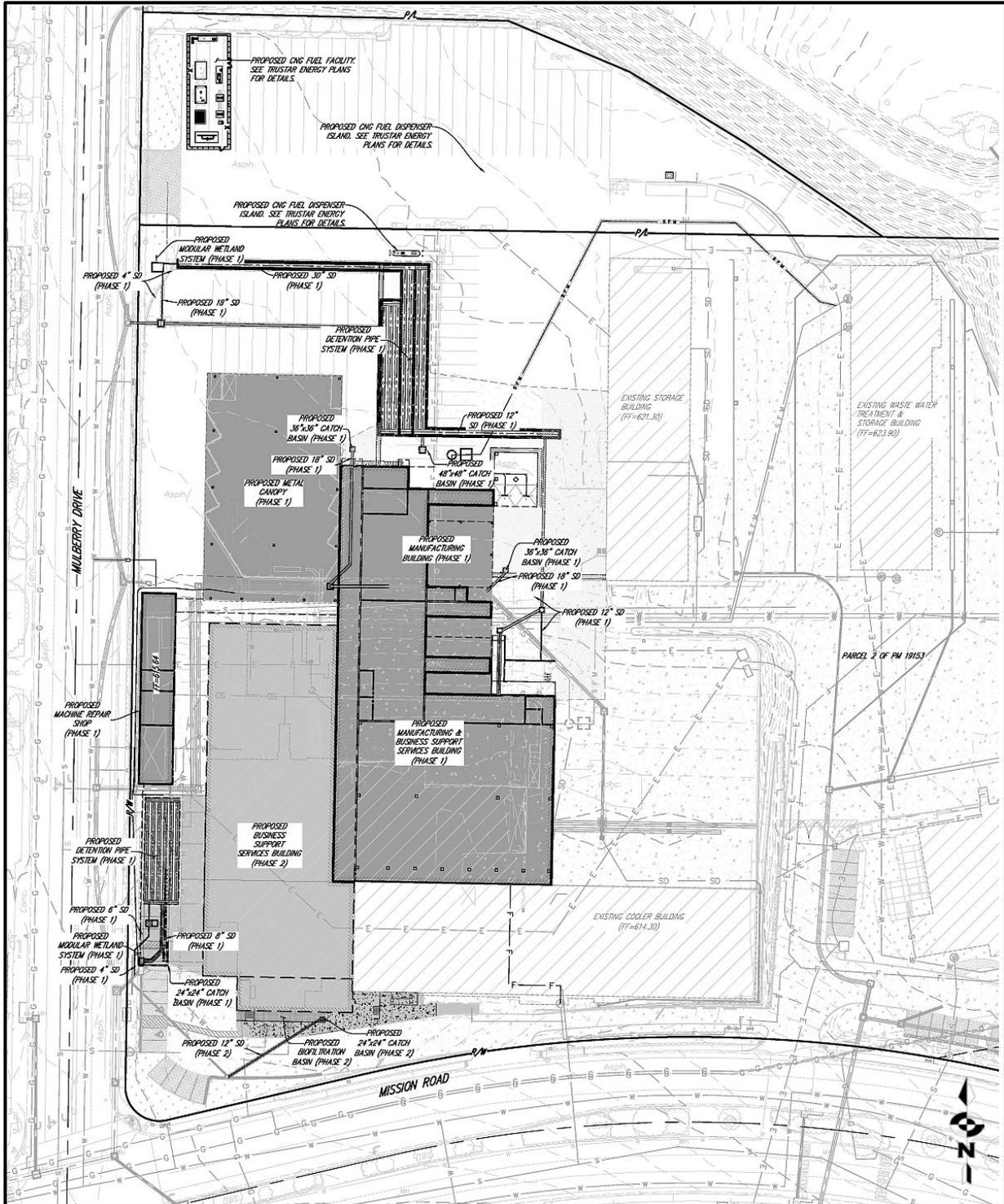
The purpose of this letter is to identify potential significant air quality impacts, if any, which may be created from the construction of the proposed Hollandia Dairy Modernization project located on the northeast corner of E. Mission Road/Mulberry Drive in the City of San Marcos.

## **Site Development Plan**

This upgraded facility will maintain the existing quantities of product intake and production, will keep Hollandia Dairy in compliance with all the current food processing facility requirements, and will provide for the future success of the company. Building expansion is necessary to bring the dairy into compliance with federal dairy operating regulations which in part require more space between equipment. The development plan would be over two phases and would demolish 27,372 square feet (SF) of existing facilities and then construct 104,135 SF of new facilities for a net change of 76,763 SF of new facilities. Since the second floor of the new warehouse building will be unoccupied, only 48,755 SF of the net change is considered to be occupied space. . The phasing is necessary to ensure that the current plant operations are not interrupted by the construction of the new facility. The phasing will allow the new creamery and central plant to be fully tested, placed into operation and vetted prior to demolition of the current plant. Also, as part of this project, during grading operations, a combined import of 5,400 cubic yards (CY) is required. The project area is roughly 4.75 acres in size.

The replacement facility will contain a new processing plant, office space, maintenance building, employee space, restrooms, unoccupied space which houses mechanical equipment, and a new cover over the milk crate wash racks. Rather than receive several shipments of pre-formed plastic containers and storing those, new building space will also house a molder, eliminating plastic deliveries by truck. Processing equipment totals 7 machines, which will be replaced on a one-to-one basis as older machines become obsolete. A site development plan is shown below in Figure 1. Also, Table 1 shows a breakdown of the project demolition and construction estimates.

**Figure 1: Proposed Project Site Development Plan**



Source: (Excel Engineering, 2020)

**Table 1. Project Development Phasing Plan**

Demolition	Area (SF)	New Building Construction	Area (SF)	Net Change (SF)
<b>PHASE 1</b>		<b>PHASE 1</b>		
Cooler Warehouse Loading Dock	+/- 10,076	Process Building 1 <sup>st</sup> Level	+/- 35,418	<b>+ 37,246</b>
		Office/Welfare	+/- 9,168	
Utility Canopy	+/- 797	Utility Building	+/- 3,533	
<b>Subtotal</b>	<b>+/- 10,873</b>	<b>Total</b>	<b>+/- 48,119</b>	
<b>PHASE 2</b>		<b>PHASE 2</b>		
Process Facility	+/- 15,061	Warehouse 1 <sup>st</sup> Level	+/- 28,008	<b>+ 39,517</b>
Mechanical	+/- 1,438	Warehouse 2 <sup>nd</sup> Level (unoccupied space)	28,008	
<b>Subtotal</b>	<b>+/- 16,499</b>	<b>Phase 2 New Construction Subtotal</b>	<b>56,016</b>	
<b>Project Total</b>	<b>+/- 27,372</b>	<b>New Construction Total</b>	<b>104,135</b>	<b>+ 76,763<sup>1</sup></b>
1. 76,763 SF represents the net change of the new construction, however, the 2 <sup>nd</sup> floor of the warehouse is not considered occupied space, so the net change in occupied space would be 48,755 SF (76,763 SF less 28,008 SF).				

### Air Quality Rules and Regulations

The SDAPCD has established thresholds in Rule 20.2 for new or modified stationary sources. These screening criteria can be used to demonstrate that a project's total emissions would not result in a significant impact as defined by CEQA. The City of San Marcos has adopted these thresholds. Should emissions be found to exceed these thresholds, additional modeling is required to demonstrate that the project's total air quality impacts are below the state and federal ambient air quality standards. These screening thresholds for construction and daily operations are shown in Table 2 below.

**Table 2: San Marcos Screening Level Thresholds for Criteria Pollutants**

Pollutant	Total Emissions (Pounds per Day)
Construction Emissions	
Respirable Particulate Matter (PM <sub>10</sub> and PM <sub>2.5</sub> )	100 and 55
Nitrogen Oxide (NO <sub>x</sub> )	250
Sulfur Oxide (SO <sub>x</sub> )	250
Carbon Monoxide (CO)	550
Volatile Organic Compounds (VOCs)	75
Reactive Organic Gases (ROG) SCAQMD	75

Non-Criteria pollutants such as Hazardous Air Pollutants (HAPs) or Toxic Air Contaminants (TACs) are also regulated by the SDAPCD. Rule 1200 (Toxic Air Contaminants - New Source Review) adopted on June 12, 1996, requires evaluation of potential health risks for any new, relocated, or modified emission unit which may increase emissions of one or more toxic air contaminants. The rule requires that projects that propose to increase cancer risk to between 1 and 10 in one million need to implement toxics best available control technology (T-BACT) or impose the most effective emission limitation, emission control device or control technique to reduce the cancer risk. At no time shall the project increase the cancer risk to over 10 in one million or a health hazard index (chronic and acute) greater than one. Projects creating cancer risks less than one in one million are not required to implement T-BACT technology.

The proposed project would also be required to be compliant with California Health and Safety Code Section 41700 (California, 1975) and District Rule 51 (SDAPCD, 1976) which states that no person can discharge air contaminants that cause injury, nuisance or annoyance to any considerable number of persons or the public, or that endanger the comfort, health or safety of such persons and would include odors.

Since odor issues are very subjective by nature and their measurements are difficult to quantify, a qualitative approach is recommended. Each project will be reviewed on an individual basis, focusing on the existing and potential surrounding uses and location of sensitive receptors.

### **Construction Air Quality Emissions**

Air Quality emissions related to construction were calculated using the latest CalEEMod 2020.4.0 model. One model was prepared for each phase. The construction module in CalEEMod is used to calculate the emissions associated with the construction of the project. The CalEEMod input/output models (one for each phase) are shown in **Attachments A** and **B** to this report. Phase 1 of the project is expected to start sometime in 2021 and would be completed in 2022. Phase 2 of the project would commence after Phase 1 is complete sometime in 2022 and be completed in 2023. The project would require the import of 5,400 CY of material, which will utilize on road haul trucks which were included within the CalEEMod modeling. Tables 3 and 4 show the construction equipment and durations as modeled in CalEEMod.

**Table 3: Expected Construction Equipment (Phase 1)**

<b>Equipment Identification</b>	<b>Proposed Start</b>	<b>Proposed Completion</b>	<b>Quantity</b>
<b>Demolition</b>	10/1/2021	10/28/2021	
Concrete/Industrial Saws			1
Rubber Tired Dozers			1
Tractors/Loaders/Backhoes			3
<b>Site Preparation</b>	10/29/2021	11/1/2021	
Graders			1
Rubber Tired Dozers			1
Tractors/Loaders/Backhoes			1
<b>Grading</b>	11/2/2021	11/5/2021	
Graders			1
Rubber Tired Dozers			1
Tractors/Loaders/Backhoes			2
<b>Building Construction</b>	11/6/2021	8/12/2022	
Cranes			1
Forklifts			1
Generator Sets			1
Tractors/Loaders/Backhoes			1
Welders			3
<b>Paving</b>	8/13/2022	8/26/2022	
Cement and Mortar Mixers			1
Pavers			1
Paving Equipment			1
Rollers			1
Tractors/Loaders/Backhoes			1
<b>Architectural Coating</b>	8/1/2022	8/12/2022	
Air Compressors			1

**Table 4: Expected Construction Equipment (Phase 2)**

<b>Equipment Identification</b>	<b>Proposed Start</b>	<b>Proposed Completion</b>	<b>Quantity</b>
<b>Demolition</b>	12/01/2022	12/14/2022	
Concrete/Industrial Saws			1
Rubber Tired Dozers			1
Tractors/Loaders/Backhoes			2
<b>Site Preparation</b>	12/15/2022	12/15/2022	
Graders			1
Tractors/Loaders/Backhoes			1
<b>Grading</b>	11/2/2021	11/5/2021	
Graders			1
Tractors/Loaders/Backhoes			1
<b>Building Construction</b>	12/20/2022	05/08/2023	
Cranes			1
Forklifts			2
Tractors/Loaders/Backhoes			2
<b>Paving</b>	05/09/2023	05/15/2023	
Cement and Mortar Mixers			4
Pavers			1
Rollers			1
Tractors/Loaders/Backhoes			1
<b>Architectural Coating</b>	4/27/2023	5/8/2023	
Air Compressors			1

Additionally, it should be noted that the proposed project would implement the following project design features (PDFs) during construction and has been modeled as such. Given this, the assumed PDFs will be required as a condition of approval:

- *Construction Design Feature 1: all heavy diesel construction equipment will be classified as Tier IV. This will also satisfy health risk impacts related to diesel particulates under T-BACT guidelines.*
- *Best Management Practice 1: The project will apply water twice daily as needed to minimize dust.*
- *Best Management Practice 2: The project shall comply with the City's Grading Ordinance.*
- *Best Management Practice 3: The project shall comply with all SDPACD rules with respect to dust management during grading and construction (Rule 51).*

Table 5 below shows the expected construction emissions from the proposed project and includes both Phase 1 and Phase 2 emissions. Based on the daily maximum emissions as reported with CalEEMod outputs, air quality impacts would not be expected.

**Table 5: Expected Construction Emissions Summary (Pounds per Day)**

Year	ROG	NO <sub>x</sub>	CO	SO <sub>2</sub>	PM <sub>10</sub> (Dust)	PM <sub>10</sub> (Exhaust)	PM <sub>10</sub> (Total)	PM <sub>2.5</sub> (Dust)	PM <sub>2.5</sub> (Exhaust)	PM <sub>2.5</sub> (Total)
2021 (Phase 1)	1.11	22.70	16.36	0.09	9.26	0.36	9.61	4.01	0.34	4.35
2022 (Phase 1)	45.01	4.31	15.70	0.03	0.24	0.04	0.28	0.07	0.04	0.11
2022 (Phase 2)	0.23	1.81	8.51	0.02	4.96	0.03	4.97	2.54	0.03	2.55
2023 (Phase 2)	65.17	1.17	10.40	0.02	0.30	0.03	0.33	0.08	0.03	0.11
<b>Maximum</b>	<b>65.17</b>	<b>22.7</b>	<b>16.36</b>	<b>0.09</b>	<b>9.26</b>	<b>0.36</b>	<b>9.61</b>	<b>4.01</b>	<b>0.34</b>	<b>4.35</b>
<b>Screening Level Threshold</b>	<b>75</b>	<b>250</b>	<b>550</b>	<b>250</b>	-	-	<b>100</b>	-	-	<b>55</b>
<b>Exceeds Threshold?</b>	<b>No</b>	<b>No</b>	<b>No</b>	<b>No</b>	-	-	<b>No</b>	-	-	<b>No</b>

## Odor

Based on information provided by the client, the project would not be a likely source of odor impacts. During construction, there may be short term odors from asphalt paving or construction equipment though these events would be short-term. Based on this, no significant odor impacts would be expected.

## Construction Health Risk

The project site is located adjacent to the Mission Hills High School, although the project construction would be on the west side of the Hollandia campus with intervening facilities existing within the line of sight from the construction area to the school. Since the school is within close proximity to the site, the school is analyzed as a sensitive receptor. In addition to the school, there is a multifamily development to the northwest which is also analyzed within this assessment. Given this, health risks must be quantified at these locations based on the Office of Environmental Health Hazard Assessment (OEHHA) requirements. To be considered less than significant, the assessment would be required to show that a cancer risk generated from diesel exhaust of construction equipment would be less than 10 per one million exposed. Methodologies identified by OEHHA have been utilized within this screening assessment (OEHHA, 2015).

Based upon the air quality modeling, worst-case onsite PM<sub>10</sub> from onsite construction exhaust would cumulatively produce 0.0036 tons during Phase 1 and 0.0011 tons during Phase 2 or a combined total of 0.0047 tons over the construction duration. The construction duration over both phases is (584-working days) or an average of 8.44x10<sup>-5</sup> grams/second. The average emission rate over the grading area is 4.39x10<sup>-9</sup> g/m<sup>2</sup>/s, which was calculated as follows:

$$\frac{0.0000844 \frac{\text{grams}}{\text{second}}}{4.75 \text{ acres} * 4,046 \frac{\text{meters}^2}{\text{acre}}} = 4.39 * 10^{-9} \frac{\text{grams}}{\text{meters}^2 \text{ second}}$$

OEHHA recommends that an exposure duration (residency time) of 30 years be used to estimate individual cancer risk for the Maximally Exposed Individual Resident (MEIR) or receptor. OEHHA also recommends that the 30-year exposure duration be used as the basis for public notification and risk reduction audits and plans. The High School site is the primary sensitive receptor. AERMOD was used to determine diesel emissions concentrations at nearby receptors. AERMOD was adopted by the United States Environmental Protection Agency (EPA) as their preferred atmospheric dispersion regulatory model.

A graphical representation of the modeling locations is shown on a site aerial below in Figure 2. The red points (1-3) represent the sensitive receptor locations where air quality emissions are calculated by AERMOD. Points #1 and #2 are associated with Mission Hills High School. Point #3 is a nearby multi-family home community. The green polygon represents the grading area.

The AERMOD outputs are provided as **Attachment C** to this screening letter. Utilizing the AERMOD dispersion model, we find that the peak maximum annual concentration is 0.0073 µg/m<sup>3</sup> at the nearby multi-family development and 0.0050 µg/m<sup>3</sup> at the Mission Hills High School Receptor 2. Utilizing the risk equations, shown in **Attachment D** to this letter report, the inhalation cancer risk at the worst-case receptor is 2.04 per one million exposed at the nearby multi-family development. Based on this, the T-BACT equipment would generate a risk of less than 10 per one million exposed, for a less than significant health risk impact during construction. Also, since all dispersed emissions from the project are lower at remaining receptor locations (R1 and R2), health risks at these locations would also be lower than 2.04.

**Figure 2: Construction Health Risk Model Setup**



### **Operational Air Quality Emissions**

Operations at the existing Hollandia Dairy would remain the same with the approval of the project. The modernization project is necessary for the Hollandia Dairy to meet current regulations with respect to equipment separation. There would not be an increase in product yield with the modernization of the dairy nor would there be an increase in trips under the proposed project. The number of tanker trucks bringing in product and the number of delivery trucks delivering products would remain the same. Similarly, the number of employees would be similar to what is under the current operations. Since the proposed project would not be expected to modify existing operations, the project would not increase operational air quality emissions. Given this, operational air quality impacts would be less than significant.

## Cumulative Air Quality Emissions

Whenever a project is under construction with a nearby construction project at the same time, there is a potential to cumulatively increase impacts. Based on our review of nearby projects, there is a potential for the construction of the nearby Hollandia Farms/Mission Outdoor Storage Project to coincide with the proposed project. LDN Consulting prepared the study for the Mission Outdoor Storage Project (LDN Consulting, 2020). Emissions from the Mission Outdoor Storage project were found to be less than significant and are shown in Table 6 below.

These emissions could be additive to the proposed project's maximum emissions since the projects are so close in proximity if they were under construction at the same time. Additionally, the maximum emissions from the proposed Project are also included in Table 6. Based on distance separation the emissions are not expected to add directly to each other but conservatively adding these emissions was found to also generate a less than significant impact and would therefore be less than significant cumulatively.

**Table 6: Cumulative Construction Emissions Summary (Pounds per Day)**

<b>Emission Source</b>	<b>ROG</b>	<b>NO<sub>x</sub></b>	<b>CO</b>	<b>SO<sub>2</sub></b>	<b>PM<sub>10</sub> (Dust)</b>	<b>PM<sub>10</sub> (Exhaust)</b>	<b>PM<sub>10</sub> (Total)</b>	<b>PM<sub>2.5</sub> (Dust)</b>	<b>PM<sub>2.5</sub> (Exhaust)</b>	<b>PM<sub>2.5</sub> (Total)</b>
Approved Mission Storage Maximum Daily Construction Emissions	1.96	26.81	22.25	0.10	6.53	0.09	6.61	3.32	0.09	3.32
Proposed Project Maximum Daily Construction Emissions (See Table 4 above)	65.17	22.7	16.36	0.09	9.26	0.36	9.61	4.01	0.34	4.35
<b>Cumulative Total</b>	<b>67.13</b>	<b>49.51</b>	<b>38.61</b>	<b>0.19</b>	<b>15.79</b>	<b>0.45</b>	<b>16.22</b>	<b>7.33</b>	<b>0.43</b>	<b>7.67</b>
<b>Screening Level Threshold</b>	<b>75</b>	<b>250</b>	<b>550</b>	<b>250</b>	-	-	<b>100</b>	-	-	<b>55</b>
<b>Exceeds Screening Level?</b>	<b>No</b>	<b>No</b>	<b>No</b>	<b>No</b>	-	-	<b>No</b>	-	-	<b>No</b>

## Conclusion

Based on the findings from the air quality modeling, the daily construction activities would not generate daily air quality emissions in excess of the City's air quality significance thresholds. Given this, a less than significant air quality impact is expected.

Construction of the proposed project was found to generate a less than significant health risk impact at the nearby sensitive receptors identified on Figure 2 above. It should be noted again that the project would implement specific design features which were assumed within the project AQ modeling and would be included in conditions of approval for this project.

- *Construction Design Feature 1: all heavy diesel construction equipment will be classified as Tier IV. This will also satisfy health risk impacts related to diesel particulates under T-BACT guidelines.*
- *Best Management Practice 1: The project will apply water twice daily as needed to minimize dust.*
- *Best Management Practice 2: The project shall comply with the City's Grading Ordinance.*
- *Best Management Practice 3: The project shall comply with all SDPACD rules with respect to dust management during grading and construction (Rule 51).*

Based on the analysis of the proposed project, no significant air quality impacts are anticipated and no further analysis is required. If you have any questions, please do not hesitate to contact me directly at (760) 473-1253.

Sincerely,  
Ldn Consulting, Inc.



Jeremy Loudon

**Attachments:** Attachment A: Phase 1 CalEEMod (Summer, Winter, Annual)  
Attachment B: Phase 2 CalEEMod (Summer, Winter, Annual)  
Attachment C: AERMOD DPM Model Output  
Attachment D: OEHHA Health Risk Calculations

**References:**

California. (1975). *HEALTH AND SAFETY CODE - HSC- DIVISION 26. AIR RESOURCES [39000 - 44474]* . Retrieved from

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Hollandia Dairy Phase 1 - San Diego County, Summer

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

**Hollandia Dairy Phase 1  
San Diego County, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	9.20	1000sqft	0.21	9,200.00	0
Manufacturing	3.50	1000sqft	0.08	3,500.00	0
Refrigerated Warehouse-No Rail	35.41	1000sqft	0.81	35,410.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.6	<b>Precipitation Freq (Days)</b>	40
<b>Climate Zone</b>	13			<b>Operational Year</b>	2022
<b>Utility Company</b>	San Diego Gas & Electric				
<b>CO2 Intensity (lb/MWhr)</b>	539.98	<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 - Phase 1 48.1 ksf

Construction Phase - Phase 1 Construction

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Trips and VMT -

Demolition -

Grading -

Hollandia Dairy Phase 1 - San Diego County, Summer

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

Architectural Coating - Rule 67 Paints

Vehicle Trips - Project would maintain existing traffic. No additional trips expected due to remodel

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Area Coating - Rule 67 Paints

Energy Use -

Construction Off-road Equipment Mitigation - Tier 4 Equipment

Fleet Mix -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	100.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	100.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	100
tblAreaCoating	Area_EF_Nonresidential_Interior	250	100
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
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tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
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tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	8.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final

Hollandia Dairy Phase 1 - San Diego County, Summer

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

tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
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tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblGrading	MaterialImported	0.00	3,600.00
tblGrading	MaterialImported	0.00	1,800.00
tblVehicleTrips	ST_TR	2.21	0.00
tblVehicleTrips	ST_TR	6.42	0.00
tblVehicleTrips	ST_TR	2.12	0.00
tblVehicleTrips	SU_TR	0.70	0.00
tblVehicleTrips	SU_TR	5.09	0.00
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tblVehicleTrips	WD_TR	9.74	0.00
tblVehicleTrips	WD_TR	3.93	0.00
tblVehicleTrips	WD_TR	2.12	0.00

**2.0 Emissions Summary**

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Hollandia Dairy Phase 1 - San Diego County, Summer

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

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

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	2.6817	41.8244	15.2122	0.0942	9.2588	1.2377	10.4965	4.0050	1.1505	5.1555	0.0000	10,067.25 15	10,067.25 15	1.0234	1.2707	10,471.51 85
2022	46.5361	14.3807	15.2787	0.0285	0.2431	0.6763	0.9194	0.0657	0.6560	0.7217	0.0000	2,642.250 5	2,642.250 5	0.4141	0.0312	2,660.989 8
<b>Maximum</b>	<b>46.5361</b>	<b>41.8244</b>	<b>15.2787</b>	<b>0.0942</b>	<b>9.2588</b>	<b>1.2377</b>	<b>10.4965</b>	<b>4.0050</b>	<b>1.1505</b>	<b>5.1555</b>	<b>0.0000</b>	<b>10,067.25 15</b>	<b>10,067.25 15</b>	<b>1.0234</b>	<b>1.2707</b>	<b>10,471.51 85</b>

**Mitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	1.1068	22.7035	16.3589	0.0942	9.2588	0.3556	9.6143	4.0050	0.3416	4.3466	0.0000	10,067.25 15	10,067.25 15	1.0234	1.2707	10,471.51 85
2022	45.0056	4.3100	15.6952	0.0285	0.2431	0.0400	0.2831	0.0657	0.0397	0.1054	0.0000	2,642.250 5	2,642.250 5	0.4141	0.0312	2,660.989 8
<b>Maximum</b>	<b>45.0056</b>	<b>22.7035</b>	<b>16.3589</b>	<b>0.0942</b>	<b>9.2588</b>	<b>0.3556</b>	<b>9.6143</b>	<b>4.0050</b>	<b>0.3416</b>	<b>4.3466</b>	<b>0.0000</b>	<b>10,067.25 15</b>	<b>10,067.25 15</b>	<b>1.0234</b>	<b>1.2707</b>	<b>10,471.51 85</b>

## Hollandia Dairy Phase 1 - San Diego 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	6.31	51.94	-5.13	0.00	0.00	79.33	13.30	0.00	78.89	24.25	0.00	0.00	0.00	0.00	0.00	0.00

Hollandia Dairy Phase 1 - San Diego 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	1.1522	4.0000e-005	4.9200e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0105	0.0105	3.0000e-005		0.0112
Energy	0.0132	0.1203	0.1010	7.2000e-004		9.1400e-003	9.1400e-003		9.1400e-003	9.1400e-003		144.2962	144.2962	2.7700e-003	2.6500e-003	145.1537
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>1.1654</b>	<b>0.1203</b>	<b>0.1059</b>	<b>7.2000e-004</b>	<b>0.0000</b>	<b>9.1600e-003</b>	<b>9.1600e-003</b>	<b>0.0000</b>	<b>9.1600e-003</b>	<b>9.1600e-003</b>		<b>144.3067</b>	<b>144.3067</b>	<b>2.8000e-003</b>	<b>2.6500e-003</b>	<b>145.1649</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	1.1522	4.0000e-005	4.9200e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0105	0.0105	3.0000e-005		0.0112
Energy	0.0132	0.1203	0.1010	7.2000e-004		9.1400e-003	9.1400e-003		9.1400e-003	9.1400e-003		144.2962	144.2962	2.7700e-003	2.6500e-003	145.1537
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>1.1654</b>	<b>0.1203</b>	<b>0.1059</b>	<b>7.2000e-004</b>	<b>0.0000</b>	<b>9.1600e-003</b>	<b>9.1600e-003</b>	<b>0.0000</b>	<b>9.1600e-003</b>	<b>9.1600e-003</b>		<b>144.3067</b>	<b>144.3067</b>	<b>2.8000e-003</b>	<b>2.6500e-003</b>	<b>145.1649</b>

Hollandia Dairy Phase 1 - San Diego 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	10/1/2021	10/28/2021	5	20	
2	Site Preparation	Site Preparation	10/29/2021	11/1/2021	5	2	
3	Grading	Grading	11/2/2021	11/5/2021	5	4	
4	Building Construction	Building Construction	11/6/2021	8/12/2022	5	200	
5	Architectural Coating	Architectural Coating	8/1/2022	8/12/2022	5	10	
6	Paving	Paving	8/13/2022	8/26/2022	5	10	

**Acres of Grading (Site Preparation Phase): 1.88**

**Acres of Grading (Grading Phase): 4**

**Acres of Paving: 0**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 72,165; Non-Residential Outdoor: 24,055; 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
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Rubber Tired Dozers	1	7.00	247	0.40

Hollandia Dairy Phase 1 - San Diego County, Summer

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

Site Preparation	Tractors/Loaders/Backhoes	1	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	6.00	231	0.29
Building Construction	Forklifts	1	6.00	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
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	1	6.00	9	0.56
Paving	Pavers	1	6.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	5	13.00	0.00	49.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	225.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	450.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	19.00	8.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	4.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	13.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Use Cleaner Engines for Construction Equipment

Hollandia Dairy Phase 1 - San Diego County, Summer

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

**3.2 Demolition - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5418	0.0000	0.5418	0.0821	0.0000	0.0821			0.0000			0.0000
Off-Road	1.9930	19.6966	14.4925	0.0241		1.0409	1.0409		0.9715	0.9715		2,322.717 1	2,322.717 1	0.5940		2,337.565 8
<b>Total</b>	<b>1.9930</b>	<b>19.6966</b>	<b>14.4925</b>	<b>0.0241</b>	<b>0.5418</b>	<b>1.0409</b>	<b>1.5827</b>	<b>0.0821</b>	<b>0.9715</b>	<b>1.0535</b>		<b>2,322.717 1</b>	<b>2,322.717 1</b>	<b>0.5940</b>		<b>2,337.565 8</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0179	0.4702	0.1126	1.5900e-003	0.0429	7.0000e-003	0.0499	0.0117	6.7000e-003	0.0184		174.0766	174.0766	8.1800e-003	0.0276	182.5142
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	0.0406	0.0278	0.3651	1.0100e-003	0.1068	6.4000e-004	0.1074	0.0283	5.9000e-004	0.0289		101.8250	101.8250	3.1400e-003	2.7600e-003	102.7254
<b>Total</b>	<b>0.0585</b>	<b>0.4979</b>	<b>0.4778</b>	<b>2.6000e-003</b>	<b>0.1496</b>	<b>7.6400e-003</b>	<b>0.1573</b>	<b>0.0401</b>	<b>7.2900e-003</b>	<b>0.0474</b>		<b>275.9016</b>	<b>275.9016</b>	<b>0.0113</b>	<b>0.0304</b>	<b>285.2395</b>

Hollandia Dairy Phase 1 - San Diego County, Summer

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

**3.2 Demolition - 2021**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5418	0.0000	0.5418	0.0821	0.0000	0.0821			0.0000			0.0000
Off-Road	0.2811	1.2179	14.7184	0.0241		0.0375	0.0375		0.0375	0.0375	0.0000	2,322.717 1	2,322.717 1	0.5940		2,337.565 8
<b>Total</b>	<b>0.2811</b>	<b>1.2179</b>	<b>14.7184</b>	<b>0.0241</b>	<b>0.5418</b>	<b>0.0375</b>	<b>0.5793</b>	<b>0.0821</b>	<b>0.0375</b>	<b>0.1195</b>	<b>0.0000</b>	<b>2,322.717 1</b>	<b>2,322.717 1</b>	<b>0.5940</b>		<b>2,337.565 8</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0179	0.4702	0.1126	1.5900e-003	0.0429	7.0000e-003	0.0499	0.0117	6.7000e-003	0.0184		174.0766	174.0766	8.1800e-003	0.0276	182.5142
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	0.0406	0.0278	0.3651	1.0100e-003	0.1068	6.4000e-004	0.1074	0.0283	5.9000e-004	0.0289		101.8250	101.8250	3.1400e-003	2.7600e-003	102.7254
<b>Total</b>	<b>0.0585</b>	<b>0.4979</b>	<b>0.4778</b>	<b>2.6000e-003</b>	<b>0.1496</b>	<b>7.6400e-003</b>	<b>0.1573</b>	<b>0.0401</b>	<b>7.2900e-003</b>	<b>0.0474</b>		<b>275.9016</b>	<b>275.9016</b>	<b>0.0113</b>	<b>0.0304</b>	<b>285.2395</b>

Hollandia Dairy Phase 1 - San Diego County, Summer

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

**3.3 Site Preparation - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.3927	0.0000	6.3927	3.0232	0.0000	3.0232			0.0000			0.0000
Off-Road	1.5558	17.4203	7.5605	0.0172		0.7654	0.7654		0.7041	0.7041		1,666.5174	1,666.5174	0.5390		1,679.9920
<b>Total</b>	<b>1.5558</b>	<b>17.4203</b>	<b>7.5605</b>	<b>0.0172</b>	<b>6.3927</b>	<b>0.7654</b>	<b>7.1580</b>	<b>3.0232</b>	<b>0.7041</b>	<b>3.7274</b>		<b>1,666.5174</b>	<b>1,666.5174</b>	<b>0.5390</b>		<b>1,679.9920</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	0.8234	21.5895	5.1709	0.0728	1.9676	0.3215	2.2890	0.5393	0.3076	0.8469		7,993.3131	7,993.3131	0.3756	1.2686	8,380.7521
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	0.0250	0.0171	0.2247	6.2000e-004	0.0657	3.9000e-004	0.0661	0.0174	3.6000e-004	0.0178		62.6616	62.6616	1.9300e-003	1.7000e-003	63.2156
<b>Total</b>	<b>0.8484</b>	<b>21.6066</b>	<b>5.3956</b>	<b>0.0735</b>	<b>2.0333</b>	<b>0.3219</b>	<b>2.3551</b>	<b>0.5567</b>	<b>0.3079</b>	<b>0.8647</b>		<b>8,055.9747</b>	<b>8,055.9747</b>	<b>0.3775</b>	<b>1.2703</b>	<b>8,443.9677</b>

Hollandia Dairy Phase 1 - San Diego County, Summer

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

**3.3 Site Preparation - 2021**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.3927	0.0000	6.3927	3.0232	0.0000	3.0232			0.0000			0.0000
Off-Road	0.2106	0.9126	8.6714	0.0172		0.0281	0.0281		0.0281	0.0281	0.0000	1,666.5174	1,666.5174	0.5390		1,679.9920
<b>Total</b>	<b>0.2106</b>	<b>0.9126</b>	<b>8.6714</b>	<b>0.0172</b>	<b>6.3927</b>	<b>0.0281</b>	<b>6.4207</b>	<b>3.0232</b>	<b>0.0281</b>	<b>3.0513</b>	<b>0.0000</b>	<b>1,666.5174</b>	<b>1,666.5174</b>	<b>0.5390</b>		<b>1,679.9920</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	0.8234	21.5895	5.1709	0.0728	1.9676	0.3215	2.2890	0.5393	0.3076	0.8469		7,993.3131	7,993.3131	0.3756	1.2686	8,380.7521
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	0.0250	0.0171	0.2247	6.2000e-004	0.0657	3.9000e-004	0.0661	0.0174	3.6000e-004	0.0178		62.6616	62.6616	1.9300e-003	1.7000e-003	63.2156
<b>Total</b>	<b>0.8484</b>	<b>21.6066</b>	<b>5.3956</b>	<b>0.0735</b>	<b>2.0333</b>	<b>0.3219</b>	<b>2.3551</b>	<b>0.5567</b>	<b>0.3079</b>	<b>0.8647</b>		<b>8,055.9747</b>	<b>8,055.9747</b>	<b>0.3775</b>	<b>1.2703</b>	<b>8,443.9677</b>

Hollandia Dairy Phase 1 - San Diego County, Summer

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

**3.4 Grading - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.2091	0.0000	7.2091	3.4439	0.0000	3.4439			0.0000			0.0000
Off-Road	1.8271	20.2135	9.7604	0.0206		0.9158	0.9158		0.8425	0.8425		1,995.6114	1,995.6114	0.6454		2,011.7470
<b>Total</b>	<b>1.8271</b>	<b>20.2135</b>	<b>9.7604</b>	<b>0.0206</b>	<b>7.2091</b>	<b>0.9158</b>	<b>8.1248</b>	<b>3.4439</b>	<b>0.8425</b>	<b>4.2864</b>		<b>1,995.6114</b>	<b>1,995.6114</b>	<b>0.6454</b>		<b>2,011.7470</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	0.8234	21.5895	5.1709	0.0728	1.9676	0.3215	2.2890	0.5393	0.3076	0.8469		7,993.3131	7,993.3131	0.3756	1.2686	8,380.7521
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	0.0312	0.0214	0.2809	7.7000e-004	0.0822	4.9000e-004	0.0826	0.0218	4.5000e-004	0.0222		78.3269	78.3269	2.4100e-003	2.1200e-003	79.0195
<b>Total</b>	<b>0.8547</b>	<b>21.6109</b>	<b>5.4518</b>	<b>0.0736</b>	<b>2.0497</b>	<b>0.3220</b>	<b>2.3717</b>	<b>0.5611</b>	<b>0.3080</b>	<b>0.8691</b>		<b>8,071.6400</b>	<b>8,071.6400</b>	<b>0.3780</b>	<b>1.2707</b>	<b>8,459.7716</b>

Hollandia Dairy Phase 1 - San Diego County, Summer

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

**3.4 Grading - 2021**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.2091	0.0000	7.2091	3.4439	0.0000	3.4439			0.0000			0.0000
Off-Road	0.2522	1.0927	10.9071	0.0206		0.0336	0.0336		0.0336	0.0336	0.0000	1,995.6114	1,995.6114	0.6454		2,011.7470
<b>Total</b>	<b>0.2522</b>	<b>1.0927</b>	<b>10.9071</b>	<b>0.0206</b>	<b>7.2091</b>	<b>0.0336</b>	<b>7.2427</b>	<b>3.4439</b>	<b>0.0336</b>	<b>3.4775</b>	<b>0.0000</b>	<b>1,995.6114</b>	<b>1,995.6114</b>	<b>0.6454</b>		<b>2,011.7470</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	0.8234	21.5895	5.1709	0.0728	1.9676	0.3215	2.2890	0.5393	0.3076	0.8469		7,993.3131	7,993.3131	0.3756	1.2686	8,380.7521
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	0.0312	0.0214	0.2809	7.7000e-004	0.0822	4.9000e-004	0.0826	0.0218	4.5000e-004	0.0222		78.3269	78.3269	2.4100e-003	2.1200e-003	79.0195
<b>Total</b>	<b>0.8547</b>	<b>21.6109</b>	<b>5.4518</b>	<b>0.0736</b>	<b>2.0497</b>	<b>0.3220</b>	<b>2.3717</b>	<b>0.5611</b>	<b>0.3080</b>	<b>0.8691</b>		<b>8,071.6400</b>	<b>8,071.6400</b>	<b>0.3780</b>	<b>1.2707</b>	<b>8,459.7716</b>

Hollandia Dairy Phase 1 - San Diego County, Summer

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

**3.5 Building Construction - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.8125	13.6361	12.8994	0.0221		0.6843	0.6843		0.6608	0.6608		2,001.2200	2,001.2200	0.3573		2,010.1517
<b>Total</b>	<b>1.8125</b>	<b>13.6361</b>	<b>12.8994</b>	<b>0.0221</b>		<b>0.6843</b>	<b>0.6843</b>		<b>0.6608</b>	<b>0.6608</b>		<b>2,001.2200</b>	<b>2,001.2200</b>	<b>0.3573</b>		<b>2,010.1517</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	0.0285	0.5161	0.1692	1.7600e-003	0.0542	8.9800e-003	0.0632	0.0156	8.5900e-003	0.0242		188.8818	188.8818	5.9400e-003	0.0275	197.2123
Worker	0.0593	0.0406	0.5337	1.4700e-003	0.1561	9.3000e-004	0.1570	0.0414	8.6000e-004	0.0423		148.8212	148.8212	4.5900e-003	4.0300e-003	150.1371
<b>Total</b>	<b>0.0879</b>	<b>0.5567</b>	<b>0.7028</b>	<b>3.2300e-003</b>	<b>0.2103</b>	<b>9.9100e-003</b>	<b>0.2202</b>	<b>0.0570</b>	<b>9.4500e-003</b>	<b>0.0665</b>		<b>337.7030</b>	<b>337.7030</b>	<b>0.0105</b>	<b>0.0315</b>	<b>347.3493</b>

Hollandia Dairy Phase 1 - San Diego County, Summer

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

**3.5 Building Construction - 2021**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2930	3.7120	13.1241	0.0221		0.0303	0.0303		0.0303	0.0303	0.0000	2,001.2200	2,001.2200	0.3573		2,010.1517
<b>Total</b>	<b>0.2930</b>	<b>3.7120</b>	<b>13.1241</b>	<b>0.0221</b>		<b>0.0303</b>	<b>0.0303</b>		<b>0.0303</b>	<b>0.0303</b>	<b>0.0000</b>	<b>2,001.2200</b>	<b>2,001.2200</b>	<b>0.3573</b>		<b>2,010.1517</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	0.0285	0.5161	0.1692	1.7600e-003	0.0542	8.9800e-003	0.0632	0.0156	8.5900e-003	0.0242		188.8818	188.8818	5.9400e-003	0.0275	197.2123
Worker	0.0593	0.0406	0.5337	1.4700e-003	0.1561	9.3000e-004	0.1570	0.0414	8.6000e-004	0.0423		148.8212	148.8212	4.5900e-003	4.0300e-003	150.1371
<b>Total</b>	<b>0.0879</b>	<b>0.5567</b>	<b>0.7028</b>	<b>3.2300e-003</b>	<b>0.2103</b>	<b>9.9100e-003</b>	<b>0.2202</b>	<b>0.0570</b>	<b>9.4500e-003</b>	<b>0.0665</b>		<b>337.7030</b>	<b>337.7030</b>	<b>0.0105</b>	<b>0.0315</b>	<b>347.3493</b>

Hollandia Dairy Phase 1 - San Diego County, Summer

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

**3.5 Building Construction - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.6487	12.5031	12.7264	0.0221		0.5889	0.5889		0.5689	0.5689		2,001.5429	2,001.5429	0.3486		2,010.2581
<b>Total</b>	<b>1.6487</b>	<b>12.5031</b>	<b>12.7264</b>	<b>0.0221</b>		<b>0.5889</b>	<b>0.5889</b>		<b>0.5689</b>	<b>0.5689</b>		<b>2,001.5429</b>	<b>2,001.5429</b>	<b>0.3486</b>		<b>2,010.2581</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	0.0178	0.4255	0.1423	1.7100e-003	0.0542	4.6300e-003	0.0588	0.0156	4.4200e-003	0.0200		183.8605	183.8605	5.5900e-003	0.0267	191.9531
Worker	0.0555	0.0361	0.4927	1.4200e-003	0.1561	8.8000e-004	0.1570	0.0414	8.1000e-004	0.0422		144.8949	144.8949	4.1600e-003	3.7400e-003	146.1120
<b>Total</b>	<b>0.0733</b>	<b>0.4616</b>	<b>0.6350</b>	<b>3.1300e-003</b>	<b>0.2103</b>	<b>5.5100e-003</b>	<b>0.2158</b>	<b>0.0570</b>	<b>5.2300e-003</b>	<b>0.0622</b>		<b>328.7554</b>	<b>328.7554</b>	<b>9.7500e-003</b>	<b>0.0304</b>	<b>338.0652</b>

Hollandia Dairy Phase 1 - San Diego County, Summer

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

**3.5 Building Construction - 2022**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2930	3.7120	13.1241	0.0221		0.0303	0.0303		0.0303	0.0303	0.0000	2,001.5429	2,001.5429	0.3486		2,010.2581
<b>Total</b>	<b>0.2930</b>	<b>3.7120</b>	<b>13.1241</b>	<b>0.0221</b>		<b>0.0303</b>	<b>0.0303</b>		<b>0.0303</b>	<b>0.0303</b>	<b>0.0000</b>	<b>2,001.5429</b>	<b>2,001.5429</b>	<b>0.3486</b>		<b>2,010.2581</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	0.0178	0.4255	0.1423	1.7100e-003	0.0542	4.6300e-003	0.0588	0.0156	4.4200e-003	0.0200		183.8605	183.8605	5.5900e-003	0.0267	191.9531
Worker	0.0555	0.0361	0.4927	1.4200e-003	0.1561	8.8000e-004	0.1570	0.0414	8.1000e-004	0.0422		144.8949	144.8949	4.1600e-003	3.7400e-003	146.1120
<b>Total</b>	<b>0.0733</b>	<b>0.4616</b>	<b>0.6350</b>	<b>3.1300e-003</b>	<b>0.2103</b>	<b>5.5100e-003</b>	<b>0.2158</b>	<b>0.0570</b>	<b>5.2300e-003</b>	<b>0.0622</b>		<b>328.7554</b>	<b>328.7554</b>	<b>9.7500e-003</b>	<b>0.0304</b>	<b>338.0652</b>

Hollandia Dairy Phase 1 - San Diego County, Summer

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

**3.6 Architectural Coating - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	44.5980					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062
<b>Total</b>	<b>44.8025</b>	<b>1.4085</b>	<b>1.8136</b>	<b>2.9700e-003</b>		<b>0.0817</b>	<b>0.0817</b>		<b>0.0817</b>	<b>0.0817</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0183</b>		<b>281.9062</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0117	7.6000e-003	0.1037	3.0000e-004	0.0329	1.9000e-004	0.0331	8.7200e-003	1.7000e-004	8.8900e-003		30.5042	30.5042	8.8000e-004	7.9000e-004	30.7604
<b>Total</b>	<b>0.0117</b>	<b>7.6000e-003</b>	<b>0.1037</b>	<b>3.0000e-004</b>	<b>0.0329</b>	<b>1.9000e-004</b>	<b>0.0331</b>	<b>8.7200e-003</b>	<b>1.7000e-004</b>	<b>8.8900e-003</b>		<b>30.5042</b>	<b>30.5042</b>	<b>8.8000e-004</b>	<b>7.9000e-004</b>	<b>30.7604</b>

Hollandia Dairy Phase 1 - San Diego County, Summer

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

**3.6 Architectural Coating - 2022**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	44.5980					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0297	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0183		281.9062
<b>Total</b>	<b>44.6277</b>	<b>0.1288</b>	<b>1.8324</b>	<b>2.9700e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0183</b>		<b>281.9062</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0117	7.6000e-003	0.1037	3.0000e-004	0.0329	1.9000e-004	0.0331	8.7200e-003	1.7000e-004	8.8900e-003		30.5042	30.5042	8.8000e-004	7.9000e-004	30.7604
<b>Total</b>	<b>0.0117</b>	<b>7.6000e-003</b>	<b>0.1037</b>	<b>3.0000e-004</b>	<b>0.0329</b>	<b>1.9000e-004</b>	<b>0.0331</b>	<b>8.7200e-003</b>	<b>1.7000e-004</b>	<b>8.8900e-003</b>		<b>30.5042</b>	<b>30.5042</b>	<b>8.8000e-004</b>	<b>7.9000e-004</b>	<b>30.7604</b>

Hollandia Dairy Phase 1 - San Diego County, Summer

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

**3.7 Paving - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6877	6.7738	8.8060	0.0135		0.3474	0.3474		0.3205	0.3205		1,297.378 <sub>9</sub>	1,297.378 <sub>9</sub>	0.4113		1,307.660 <sub>8</sub>
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.6877</b>	<b>6.7738</b>	<b>8.8060</b>	<b>0.0135</b>		<b>0.3474</b>	<b>0.3474</b>		<b>0.3205</b>	<b>0.3205</b>		<b>1,297.378<sub>9</sub></b>	<b>1,297.378<sub>9</sub></b>	<b>0.4113</b>		<b>1,307.660<sub>8</sub></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	0.0380	0.0247	0.3371	9.7000e-004	0.1068	6.0000e-004	0.1074	0.0283	5.6000e-004	0.0289		99.1386	99.1386	2.8500e-003	2.5600e-003	99.9714
<b>Total</b>	<b>0.0380</b>	<b>0.0247</b>	<b>0.3371</b>	<b>9.7000e-004</b>	<b>0.1068</b>	<b>6.0000e-004</b>	<b>0.1074</b>	<b>0.0283</b>	<b>5.6000e-004</b>	<b>0.0289</b>		<b>99.1386</b>	<b>99.1386</b>	<b>2.8500e-003</b>	<b>2.5600e-003</b>	<b>99.9714</b>

Hollandia Dairy Phase 1 - San Diego County, Summer

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

**3.7 Paving - 2022**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1598	0.6922	9.8512	0.0135		0.0213	0.0213		0.0213	0.0213	0.0000	1,297.378 <sub>9</sub>	1,297.378 <sub>9</sub>	0.4113		1,307.660 <sub>8</sub>
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.1598</b>	<b>0.6922</b>	<b>9.8512</b>	<b>0.0135</b>		<b>0.0213</b>	<b>0.0213</b>		<b>0.0213</b>	<b>0.0213</b>	<b>0.0000</b>	<b>1,297.378<sub>9</sub></b>	<b>1,297.378<sub>9</sub></b>	<b>0.4113</b>		<b>1,307.660<sub>8</sub></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	0.0380	0.0247	0.3371	9.7000e-004	0.1068	6.0000e-004	0.1074	0.0283	5.6000e-004	0.0289		99.1386	99.1386	2.8500e-003	2.5600e-003	99.9714
<b>Total</b>	<b>0.0380</b>	<b>0.0247</b>	<b>0.3371</b>	<b>9.7000e-004</b>	<b>0.1068</b>	<b>6.0000e-004</b>	<b>0.1074</b>	<b>0.0283</b>	<b>5.6000e-004</b>	<b>0.0289</b>		<b>99.1386</b>	<b>99.1386</b>	<b>2.8500e-003</b>	<b>2.5600e-003</b>	<b>99.9714</b>

Hollandia Dairy Phase 1 - San Diego County, Summer

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

**4.0 Operational Detail - Mobile**

**4.1 Mitigation Measures Mobile**

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

**4.2 Trip Summary Information**

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

**4.3 Trip Type Information**

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 Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4
Manufacturing	9.50	7.30	7.30	59.00	28.00	13.00	92	5	3
Refrigerated Warehouse-No	9.50	7.30	7.30	59.00	0.00	41.00	92	5	3

Hollandia Dairy Phase 1 - San Diego County, Summer

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

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	0.548470	0.062992	0.183336	0.122442	0.024733	0.006148	0.008613	0.006191	0.000732	0.000545	0.029420	0.000989	0.005388
Manufacturing	0.548470	0.062992	0.183336	0.122442	0.024733	0.006148	0.008613	0.006191	0.000732	0.000545	0.029420	0.000989	0.005388
Refrigerated Warehouse-No Rail	0.548470	0.062992	0.183336	0.122442	0.024733	0.006148	0.008613	0.006191	0.000732	0.000545	0.029420	0.000989	0.005388

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day										lb/day					
NaturalGas Mitigated	0.0132	0.1203	0.1010	7.2000e-004		9.1400e-003	9.1400e-003		9.1400e-003	9.1400e-003		144.2962	144.2962	2.7700e-003	2.6500e-003	145.1537
NaturalGas Unmitigated	0.0132	0.1203	0.1010	7.2000e-004		9.1400e-003	9.1400e-003		9.1400e-003	9.1400e-003		144.2962	144.2962	2.7700e-003	2.6500e-003	145.1537

Hollandia Dairy Phase 1 - San Diego County, Summer

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

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Office Building	504.866	5.4400e-003	0.0495	0.0416	3.0000e-004		3.7600e-003	3.7600e-003		3.7600e-003	3.7600e-003		59.3960	59.3960	1.1400e-003	1.0900e-003	59.7489
Manufacturing	110.466	1.1900e-003	0.0108	9.1000e-003	6.0000e-005		8.2000e-004	8.2000e-004		8.2000e-004	8.2000e-004		12.9960	12.9960	2.5000e-004	2.4000e-004	13.0732
Refrigerated Warehouse-No Rail	611.186	6.5900e-003	0.0599	0.0503	3.6000e-004		4.5500e-003	4.5500e-003		4.5500e-003	4.5500e-003		71.9043	71.9043	1.3800e-003	1.3200e-003	72.3316
<b>Total</b>		<b>0.0132</b>	<b>0.1203</b>	<b>0.1010</b>	<b>7.2000e-004</b>		<b>9.1300e-003</b>	<b>9.1300e-003</b>		<b>9.1300e-003</b>	<b>9.1300e-003</b>		<b>144.2962</b>	<b>144.2962</b>	<b>2.7700e-003</b>	<b>2.6500e-003</b>	<b>145.1537</b>

Hollandia Dairy Phase 1 - San Diego 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 Office Building	0.504866	5.4400e-003	0.0495	0.0416	3.0000e-004		3.7600e-003	3.7600e-003		3.7600e-003	3.7600e-003		59.3960	59.3960	1.1400e-003	1.0900e-003	59.7489
Manufacturing	0.110466	1.1900e-003	0.0108	9.1000e-003	6.0000e-005		8.2000e-004	8.2000e-004		8.2000e-004	8.2000e-004		12.9960	12.9960	2.5000e-004	2.4000e-004	13.0732
Refrigerated Warehouse-No Rail	0.611186	6.5900e-003	0.0599	0.0503	3.6000e-004		4.5500e-003	4.5500e-003		4.5500e-003	4.5500e-003		71.9043	71.9043	1.3800e-003	1.3200e-003	72.3316
<b>Total</b>		<b>0.0132</b>	<b>0.1203</b>	<b>0.1010</b>	<b>7.2000e-004</b>		<b>9.1300e-003</b>	<b>9.1300e-003</b>		<b>9.1300e-003</b>	<b>9.1300e-003</b>		<b>144.2962</b>	<b>144.2962</b>	<b>2.7700e-003</b>	<b>2.6500e-003</b>	<b>145.1537</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

Hollandia Dairy Phase 1 - San Diego 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
Category	lb/day										lb/day					
Mitigated	1.1522	4.0000e-005	4.9200e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0105	0.0105	3.0000e-005		0.0112
Unmitigated	1.1522	4.0000e-005	4.9200e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0105	0.0105	3.0000e-005		0.0112

**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	0.1222					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.0296					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.6000e-004	4.0000e-005	4.9200e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0105	0.0105	3.0000e-005		0.0112
<b>Total</b>	<b>1.1522</b>	<b>4.0000e-005</b>	<b>4.9200e-003</b>	<b>0.0000</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>		<b>0.0105</b>	<b>0.0105</b>	<b>3.0000e-005</b>		<b>0.0112</b>

Hollandia Dairy Phase 1 - San Diego 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	0.1222					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.0296					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.6000e-004	4.0000e-005	4.9200e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0105	0.0105	3.0000e-005		0.0112
<b>Total</b>	<b>1.1522</b>	<b>4.0000e-005</b>	<b>4.9200e-003</b>	<b>0.0000</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>		<b>0.0105</b>	<b>0.0105</b>	<b>3.0000e-005</b>		<b>0.0112</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

Hollandia Dairy Phase 1 - San Diego 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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Hollandia Dairy Phase 1 - San Diego County, Winter

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

**Hollandia Dairy Phase 1  
San Diego County, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	9.20	1000sqft	0.21	9,200.00	0
Manufacturing	3.50	1000sqft	0.08	3,500.00	0
Refrigerated Warehouse-No Rail	35.41	1000sqft	0.81	35,410.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.6	<b>Precipitation Freq (Days)</b>	40
<b>Climate Zone</b>	13			<b>Operational Year</b>	2022
<b>Utility Company</b>	San Diego Gas & Electric				
<b>CO2 Intensity (lb/MW hr)</b>	539.98	<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 - Phase 1 48.1 ksf
- Construction Phase - Phase 1 Construction
- Off-road Equipment -
- Off-road Equipment -
- Off-road Equipment -
- Off-road Equipment -
- Trips and VMT -
- Demolition -
- Grading -

Hollandia Dairy Phase 1 - San Diego County, Winter

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

Architectural Coating - Rule 67 Paints

Vehicle Trips - Project would maintain existing traffic. No additional trips expected due to remodel

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Area Coating - Rule 67 Paints

Energy Use -

Construction Off-road Equipment Mitigation - Tier 4 Equipment

Fleet Mix -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	100.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	100.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	100
tblAreaCoating	Area_EF_Nonresidential_Interior	250	100
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	8.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final

Hollandia Dairy Phase 1 - San Diego County, Winter

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

tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblGrading	MaterialImported	0.00	3,600.00
tblGrading	MaterialImported	0.00	1,800.00
tblVehicleTrips	ST_TR	2.21	0.00
tblVehicleTrips	ST_TR	6.42	0.00
tblVehicleTrips	ST_TR	2.12	0.00
tblVehicleTrips	SU_TR	0.70	0.00
tblVehicleTrips	SU_TR	5.09	0.00
tblVehicleTrips	SU_TR	2.12	0.00
tblVehicleTrips	WD_TR	9.74	0.00
tblVehicleTrips	WD_TR	3.93	0.00
tblVehicleTrips	WD_TR	2.12	0.00

**2.0 Emissions Summary**

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Hollandia Dairy Phase 1 - San Diego County, Winter

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

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

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	2.6728	42.6118	15.2717	0.0942	9.2588	1.2381	10.4969	4.0050	1.1509	5.1559	0.0000	10,064.83 12	10,064.83 12	1.0229	1.2713	10,469.24 62
2022	46.5415	14.4022	15.2522	0.0284	0.2431	0.6763	0.9194	0.0657	0.6560	0.7217	0.0000	2,632.677 3	2,632.677 3	0.4143	0.0316	2,651.545 4
<b>Maximum</b>	<b>46.5415</b>	<b>42.6118</b>	<b>15.2717</b>	<b>0.0942</b>	<b>9.2588</b>	<b>1.2381</b>	<b>10.4969</b>	<b>4.0050</b>	<b>1.1509</b>	<b>5.1559</b>	<b>0.0000</b>	<b>10,064.83 12</b>	<b>10,064.83 12</b>	<b>1.0229</b>	<b>1.2713</b>	<b>10,469.24 62</b>

**Mitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	1.0979	23.4910	16.4184	0.0942	9.2588	0.3560	9.6147	4.0050	0.3420	4.3470	0.0000	10,064.83 12	10,064.83 12	1.0229	1.2713	10,469.24 62
2022	45.0110	4.3315	15.6687	0.0284	0.2431	0.0400	0.2831	0.0657	0.0397	0.1054	0.0000	2,632.677 3	2,632.677 3	0.4143	0.0316	2,651.545 4
<b>Maximum</b>	<b>45.0110</b>	<b>23.4910</b>	<b>16.4184</b>	<b>0.0942</b>	<b>9.2588</b>	<b>0.3560</b>	<b>9.6147</b>	<b>4.0050</b>	<b>0.3420</b>	<b>4.3470</b>	<b>0.0000</b>	<b>10,064.83 12</b>	<b>10,064.83 12</b>	<b>1.0229</b>	<b>1.2713</b>	<b>10,469.24 62</b>

## Hollandia Dairy Phase 1 - San Diego 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	6.31	51.20	-5.12	0.00	0.00	79.32	13.30	0.00	78.87	24.25	0.00	0.00	0.00	0.00	0.00	0.00

Hollandia Dairy Phase 1 - San Diego 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	1.1522	4.0000e-005	4.9200e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0105	0.0105	3.0000e-005		0.0112
Energy	0.0132	0.1203	0.1010	7.2000e-004		9.1400e-003	9.1400e-003		9.1400e-003	9.1400e-003		144.2962	144.2962	2.7700e-003	2.6500e-003	145.1537
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>1.1654</b>	<b>0.1203</b>	<b>0.1059</b>	<b>7.2000e-004</b>	<b>0.0000</b>	<b>9.1600e-003</b>	<b>9.1600e-003</b>	<b>0.0000</b>	<b>9.1600e-003</b>	<b>9.1600e-003</b>		<b>144.3067</b>	<b>144.3067</b>	<b>2.8000e-003</b>	<b>2.6500e-003</b>	<b>145.1649</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	1.1522	4.0000e-005	4.9200e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0105	0.0105	3.0000e-005		0.0112
Energy	0.0132	0.1203	0.1010	7.2000e-004		9.1400e-003	9.1400e-003		9.1400e-003	9.1400e-003		144.2962	144.2962	2.7700e-003	2.6500e-003	145.1537
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>1.1654</b>	<b>0.1203</b>	<b>0.1059</b>	<b>7.2000e-004</b>	<b>0.0000</b>	<b>9.1600e-003</b>	<b>9.1600e-003</b>	<b>0.0000</b>	<b>9.1600e-003</b>	<b>9.1600e-003</b>		<b>144.3067</b>	<b>144.3067</b>	<b>2.8000e-003</b>	<b>2.6500e-003</b>	<b>145.1649</b>

Hollandia Dairy Phase 1 - San Diego 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	10/1/2021	10/28/2021	5	20	
2	Site Preparation	Site Preparation	10/29/2021	11/1/2021	5	2	
3	Grading	Grading	11/2/2021	11/5/2021	5	4	
4	Building Construction	Building Construction	11/6/2021	8/12/2022	5	200	
5	Architectural Coating	Architectural Coating	8/1/2022	8/12/2022	5	10	
6	Paving	Paving	8/13/2022	8/26/2022	5	10	

**Acres of Grading (Site Preparation Phase): 1.88**

**Acres of Grading (Grading Phase): 4**

**Acres of Paving: 0**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 72,165; Non-Residential Outdoor: 24,055; 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
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Rubber Tired Dozers	1	7.00	247	0.40

Hollandia Dairy Phase 1 - San Diego County, Winter

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

Site Preparation	Tractors/Loaders/Backhoes	1	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	6.00	231	0.29
Building Construction	Forklifts	1	6.00	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
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	1	6.00	9	0.56
Paving	Pavers	1	6.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	5	13.00	0.00	49.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	225.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	450.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	19.00	8.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	4.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	13.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Use Cleaner Engines for Construction Equipment

Hollandia Dairy Phase 1 - San Diego County, Winter

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

**3.2 Demolition - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5418	0.0000	0.5418	0.0821	0.0000	0.0821			0.0000			0.0000
Off-Road	1.9930	19.6966	14.4925	0.0241		1.0409	1.0409		0.9715	0.9715		2,322.717 1	2,322.717 1	0.5940		2,337.565 8
<b>Total</b>	<b>1.9930</b>	<b>19.6966</b>	<b>14.4925</b>	<b>0.0241</b>	<b>0.5418</b>	<b>1.0409</b>	<b>1.5827</b>	<b>0.0821</b>	<b>0.9715</b>	<b>1.0535</b>		<b>2,322.717 1</b>	<b>2,322.717 1</b>	<b>0.5940</b>		<b>2,337.565 8</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0177	0.4873	0.1142	1.5900e-003	0.0429	7.0100e-003	0.0499	0.0117	6.7100e-003	0.0185		174.1182	174.1182	8.1600e-003	0.0276	182.5578
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	0.0438	0.0312	0.3453	9.5000e-004	0.1068	6.4000e-004	0.1074	0.0283	5.9000e-004	0.0289		96.1956	96.1956	3.3300e-003	2.9800e-003	97.1680
<b>Total</b>	<b>0.0615</b>	<b>0.5185</b>	<b>0.4596</b>	<b>2.5400e-003</b>	<b>0.1496</b>	<b>7.6500e-003</b>	<b>0.1573</b>	<b>0.0401</b>	<b>7.3000e-003</b>	<b>0.0474</b>		<b>270.3138</b>	<b>270.3138</b>	<b>0.0115</b>	<b>0.0306</b>	<b>279.7258</b>

Hollandia Dairy Phase 1 - San Diego County, Winter

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

**3.2 Demolition - 2021**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5418	0.0000	0.5418	0.0821	0.0000	0.0821			0.0000			0.0000
Off-Road	0.2811	1.2179	14.7184	0.0241		0.0375	0.0375		0.0375	0.0375	0.0000	2,322.717 1	2,322.717 1	0.5940		2,337.565 8
<b>Total</b>	<b>0.2811</b>	<b>1.2179</b>	<b>14.7184</b>	<b>0.0241</b>	<b>0.5418</b>	<b>0.0375</b>	<b>0.5793</b>	<b>0.0821</b>	<b>0.0375</b>	<b>0.1195</b>	<b>0.0000</b>	<b>2,322.717 1</b>	<b>2,322.717 1</b>	<b>0.5940</b>		<b>2,337.565 8</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0177	0.4873	0.1142	1.5900e-003	0.0429	7.0100e-003	0.0499	0.0117	6.7100e-003	0.0185		174.1182	174.1182	8.1600e-003	0.0276	182.5578
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	0.0438	0.0312	0.3453	9.5000e-004	0.1068	6.4000e-004	0.1074	0.0283	5.9000e-004	0.0289		96.1956	96.1956	3.3300e-003	2.9800e-003	97.1680
<b>Total</b>	<b>0.0615</b>	<b>0.5185</b>	<b>0.4596</b>	<b>2.5400e-003</b>	<b>0.1496</b>	<b>7.6500e-003</b>	<b>0.1573</b>	<b>0.0401</b>	<b>7.3000e-003</b>	<b>0.0474</b>		<b>270.3138</b>	<b>270.3138</b>	<b>0.0115</b>	<b>0.0306</b>	<b>279.7258</b>

Hollandia Dairy Phase 1 - San Diego County, Winter

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

**3.3 Site Preparation - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.3927	0.0000	6.3927	3.0232	0.0000	3.0232			0.0000			0.0000
Off-Road	1.5558	17.4203	7.5605	0.0172		0.7654	0.7654		0.7041	0.7041		1,666.5174	1,666.5174	0.5390		1,679.9920
<b>Total</b>	<b>1.5558</b>	<b>17.4203</b>	<b>7.5605</b>	<b>0.0172</b>	<b>6.3927</b>	<b>0.7654</b>	<b>7.1580</b>	<b>3.0232</b>	<b>0.7041</b>	<b>3.7274</b>		<b>1,666.5174</b>	<b>1,666.5174</b>	<b>0.5390</b>		<b>1,679.9920</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	0.8120	22.3743	5.2457	0.0729	1.9676	0.3219	2.2894	0.5393	0.3080	0.8473		7,995.2232	7,995.2232	0.3749	1.2690	8,382.7546
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	0.0270	0.0192	0.2125	5.8000e-004	0.0657	3.9000e-004	0.0661	0.0174	3.6000e-004	0.0178		59.1973	59.1973	2.0500e-003	1.8400e-003	59.7957
<b>Total</b>	<b>0.8390</b>	<b>22.3935</b>	<b>5.4582</b>	<b>0.0734</b>	<b>2.0333</b>	<b>0.3223</b>	<b>2.3555</b>	<b>0.5567</b>	<b>0.3083</b>	<b>0.8651</b>		<b>8,054.4205</b>	<b>8,054.4205</b>	<b>0.3770</b>	<b>1.2708</b>	<b>8,442.5503</b>

Hollandia Dairy Phase 1 - San Diego County, Winter

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

**3.3 Site Preparation - 2021**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.3927	0.0000	6.3927	3.0232	0.0000	3.0232			0.0000			0.0000
Off-Road	0.2106	0.9126	8.6714	0.0172		0.0281	0.0281		0.0281	0.0281	0.0000	1,666.5174	1,666.5174	0.5390		1,679.9920
<b>Total</b>	<b>0.2106</b>	<b>0.9126</b>	<b>8.6714</b>	<b>0.0172</b>	<b>6.3927</b>	<b>0.0281</b>	<b>6.4207</b>	<b>3.0232</b>	<b>0.0281</b>	<b>3.0513</b>	<b>0.0000</b>	<b>1,666.5174</b>	<b>1,666.5174</b>	<b>0.5390</b>		<b>1,679.9920</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	0.8120	22.3743	5.2457	0.0729	1.9676	0.3219	2.2894	0.5393	0.3080	0.8473		7,995.2232	7,995.2232	0.3749	1.2690	8,382.7546
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	0.0270	0.0192	0.2125	5.8000e-004	0.0657	3.9000e-004	0.0661	0.0174	3.6000e-004	0.0178		59.1973	59.1973	2.0500e-003	1.8400e-003	59.7957
<b>Total</b>	<b>0.8390</b>	<b>22.3935</b>	<b>5.4582</b>	<b>0.0734</b>	<b>2.0333</b>	<b>0.3223</b>	<b>2.3555</b>	<b>0.5567</b>	<b>0.3083</b>	<b>0.8651</b>		<b>8,054.4205</b>	<b>8,054.4205</b>	<b>0.3770</b>	<b>1.2708</b>	<b>8,442.5503</b>

Hollandia Dairy Phase 1 - San Diego County, Winter

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

**3.4 Grading - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.2091	0.0000	7.2091	3.4439	0.0000	3.4439			0.0000			0.0000
Off-Road	1.8271	20.2135	9.7604	0.0206		0.9158	0.9158		0.8425	0.8425		1,995.6114	1,995.6114	0.6454		2,011.7470
<b>Total</b>	<b>1.8271</b>	<b>20.2135</b>	<b>9.7604</b>	<b>0.0206</b>	<b>7.2091</b>	<b>0.9158</b>	<b>8.1248</b>	<b>3.4439</b>	<b>0.8425</b>	<b>4.2864</b>		<b>1,995.6114</b>	<b>1,995.6114</b>	<b>0.6454</b>		<b>2,011.7470</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	0.8120	22.3743	5.2457	0.0729	1.9676	0.3219	2.2894	0.5393	0.3080	0.8473		7,995.2232	7,995.2232	0.3749	1.2690	8,382.7546
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	0.0240	0.2656	7.3000e-004	0.0822	4.9000e-004	0.0826	0.0218	4.5000e-004	0.0222		73.9966	73.9966	2.5600e-003	2.3000e-003	74.7446
<b>Total</b>	<b>0.8457</b>	<b>22.3983</b>	<b>5.5113</b>	<b>0.0736</b>	<b>2.0497</b>	<b>0.3224</b>	<b>2.3721</b>	<b>0.5611</b>	<b>0.3084</b>	<b>0.8695</b>		<b>8,069.2198</b>	<b>8,069.2198</b>	<b>0.3775</b>	<b>1.2713</b>	<b>8,457.4992</b>

Hollandia Dairy Phase 1 - San Diego County, Winter

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

**3.4 Grading - 2021**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.2091	0.0000	7.2091	3.4439	0.0000	3.4439			0.0000			0.0000
Off-Road	0.2522	1.0927	10.9071	0.0206		0.0336	0.0336		0.0336	0.0336	0.0000	1,995.6114	1,995.6114	0.6454		2,011.7470
<b>Total</b>	<b>0.2522</b>	<b>1.0927</b>	<b>10.9071</b>	<b>0.0206</b>	<b>7.2091</b>	<b>0.0336</b>	<b>7.2427</b>	<b>3.4439</b>	<b>0.0336</b>	<b>3.4775</b>	<b>0.0000</b>	<b>1,995.6114</b>	<b>1,995.6114</b>	<b>0.6454</b>		<b>2,011.7470</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	0.8120	22.3743	5.2457	0.0729	1.9676	0.3219	2.2894	0.5393	0.3080	0.8473		7,995.2232	7,995.2232	0.3749	1.2690	8,382.7546
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	0.0240	0.2656	7.3000e-004	0.0822	4.9000e-004	0.0826	0.0218	4.5000e-004	0.0222		73.9966	73.9966	2.5600e-003	2.3000e-003	74.7446
<b>Total</b>	<b>0.8457</b>	<b>22.3983</b>	<b>5.5113</b>	<b>0.0736</b>	<b>2.0497</b>	<b>0.3224</b>	<b>2.3721</b>	<b>0.5611</b>	<b>0.3084</b>	<b>0.8695</b>		<b>8,069.2198</b>	<b>8,069.2198</b>	<b>0.3775</b>	<b>1.2713</b>	<b>8,457.4992</b>

Hollandia Dairy Phase 1 - San Diego County, Winter

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

**3.5 Building Construction - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.8125	13.6361	12.8994	0.0221		0.6843	0.6843		0.6608	0.6608		2,001.2200	2,001.2200	0.3573		2,010.1517
<b>Total</b>	<b>1.8125</b>	<b>13.6361</b>	<b>12.8994</b>	<b>0.0221</b>		<b>0.6843</b>	<b>0.6843</b>		<b>0.6608</b>	<b>0.6608</b>		<b>2,001.2200</b>	<b>2,001.2200</b>	<b>0.3573</b>		<b>2,010.1517</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	0.0285	0.5346	0.1738	1.7600e-003	0.0542	9.0000e-003	0.0632	0.0156	8.6100e-003	0.0242		188.9151	188.9151	5.9200e-003	0.0275	197.2544
Worker	0.0640	0.0456	0.5047	1.3900e-003	0.1561	9.3000e-004	0.1570	0.0414	8.6000e-004	0.0423		140.5935	140.5935	4.8600e-003	4.3600e-003	142.0148
<b>Total</b>	<b>0.0925</b>	<b>0.5803</b>	<b>0.6785</b>	<b>3.1500e-003</b>	<b>0.2103</b>	<b>9.9300e-003</b>	<b>0.2202</b>	<b>0.0570</b>	<b>9.4700e-003</b>	<b>0.0665</b>		<b>329.5086</b>	<b>329.5086</b>	<b>0.0108</b>	<b>0.0319</b>	<b>339.2692</b>

Hollandia Dairy Phase 1 - San Diego County, Winter

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

**3.5 Building Construction - 2021**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2930	3.7120	13.1241	0.0221		0.0303	0.0303		0.0303	0.0303	0.0000	2,001.2200	2,001.2200	0.3573		2,010.1517
<b>Total</b>	<b>0.2930</b>	<b>3.7120</b>	<b>13.1241</b>	<b>0.0221</b>		<b>0.0303</b>	<b>0.0303</b>		<b>0.0303</b>	<b>0.0303</b>	<b>0.0000</b>	<b>2,001.2200</b>	<b>2,001.2200</b>	<b>0.3573</b>		<b>2,010.1517</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	0.0285	0.5346	0.1738	1.7600e-003	0.0542	9.0000e-003	0.0632	0.0156	8.6100e-003	0.0242		188.9151	188.9151	5.9200e-003	0.0275	197.2544
Worker	0.0640	0.0456	0.5047	1.3900e-003	0.1561	9.3000e-004	0.1570	0.0414	8.6000e-004	0.0423		140.5935	140.5935	4.8600e-003	4.3600e-003	142.0148
<b>Total</b>	<b>0.0925</b>	<b>0.5803</b>	<b>0.6785</b>	<b>3.1500e-003</b>	<b>0.2103</b>	<b>9.9300e-003</b>	<b>0.2202</b>	<b>0.0570</b>	<b>9.4700e-003</b>	<b>0.0665</b>		<b>329.5086</b>	<b>329.5086</b>	<b>0.0108</b>	<b>0.0319</b>	<b>339.2692</b>

Hollandia Dairy Phase 1 - San Diego County, Winter

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

**3.5 Building Construction - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.6487	12.5031	12.7264	0.0221		0.5889	0.5889		0.5689	0.5689		2,001.5429	2,001.5429	0.3486		2,010.2581
<b>Total</b>	<b>1.6487</b>	<b>12.5031</b>	<b>12.7264</b>	<b>0.0221</b>		<b>0.5889</b>	<b>0.5889</b>		<b>0.5689</b>	<b>0.5689</b>		<b>2,001.5429</b>	<b>2,001.5429</b>	<b>0.3486</b>		<b>2,010.2581</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	0.0177	0.4415	0.1467	1.7100e-003	0.0542	4.6400e-003	0.0588	0.0156	4.4400e-003	0.0200		183.9549	183.9549	5.5700e-003	0.0267	192.0582
Worker	0.0600	0.0406	0.4671	1.3500e-003	0.1561	8.8000e-004	0.1570	0.0414	8.1000e-004	0.0422		136.9086	136.9086	4.4200e-003	4.0400e-003	138.2233
<b>Total</b>	<b>0.0777</b>	<b>0.4821</b>	<b>0.6138</b>	<b>3.0600e-003</b>	<b>0.2103</b>	<b>5.5200e-003</b>	<b>0.2158</b>	<b>0.0570</b>	<b>5.2500e-003</b>	<b>0.0623</b>		<b>320.8635</b>	<b>320.8635</b>	<b>9.9900e-003</b>	<b>0.0308</b>	<b>330.2815</b>

Hollandia Dairy Phase 1 - San Diego County, Winter

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

**3.5 Building Construction - 2022**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2930	3.7120	13.1241	0.0221		0.0303	0.0303		0.0303	0.0303	0.0000	2,001.5429	2,001.5429	0.3486		2,010.2581
<b>Total</b>	<b>0.2930</b>	<b>3.7120</b>	<b>13.1241</b>	<b>0.0221</b>		<b>0.0303</b>	<b>0.0303</b>		<b>0.0303</b>	<b>0.0303</b>	<b>0.0000</b>	<b>2,001.5429</b>	<b>2,001.5429</b>	<b>0.3486</b>		<b>2,010.2581</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	0.0177	0.4415	0.1467	1.7100e-003	0.0542	4.6400e-003	0.0588	0.0156	4.4400e-003	0.0200		183.9549	183.9549	5.5700e-003	0.0267	192.0582
Worker	0.0600	0.0406	0.4671	1.3500e-003	0.1561	8.8000e-004	0.1570	0.0414	8.1000e-004	0.0422		136.9086	136.9086	4.4200e-003	4.0400e-003	138.2233
<b>Total</b>	<b>0.0777</b>	<b>0.4821</b>	<b>0.6138</b>	<b>3.0600e-003</b>	<b>0.2103</b>	<b>5.5200e-003</b>	<b>0.2158</b>	<b>0.0570</b>	<b>5.2500e-003</b>	<b>0.0623</b>		<b>320.8635</b>	<b>320.8635</b>	<b>9.9900e-003</b>	<b>0.0308</b>	<b>330.2815</b>

Hollandia Dairy Phase 1 - San Diego County, Winter

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

**3.6 Architectural Coating - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	44.5980					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062
<b>Total</b>	<b>44.8025</b>	<b>1.4085</b>	<b>1.8136</b>	<b>2.9700e-003</b>		<b>0.0817</b>	<b>0.0817</b>		<b>0.0817</b>	<b>0.0817</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0183</b>		<b>281.9062</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0126	8.5500e-003	0.0983	2.8000e-004	0.0329	1.9000e-004	0.0331	8.7200e-003	1.7000e-004	8.8900e-003		28.8229	28.8229	9.3000e-004	8.5000e-004	29.0997
<b>Total</b>	<b>0.0126</b>	<b>8.5500e-003</b>	<b>0.0983</b>	<b>2.8000e-004</b>	<b>0.0329</b>	<b>1.9000e-004</b>	<b>0.0331</b>	<b>8.7200e-003</b>	<b>1.7000e-004</b>	<b>8.8900e-003</b>		<b>28.8229</b>	<b>28.8229</b>	<b>9.3000e-004</b>	<b>8.5000e-004</b>	<b>29.0997</b>

Hollandia Dairy Phase 1 - San Diego County, Winter

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

**3.6 Architectural Coating - 2022**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	44.5980					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0297	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0183		281.9062
<b>Total</b>	<b>44.6277</b>	<b>0.1288</b>	<b>1.8324</b>	<b>2.9700e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0183</b>		<b>281.9062</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0126	8.5500e-003	0.0983	2.8000e-004	0.0329	1.9000e-004	0.0331	8.7200e-003	1.7000e-004	8.8900e-003		28.8229	28.8229	9.3000e-004	8.5000e-004	29.0997
<b>Total</b>	<b>0.0126</b>	<b>8.5500e-003</b>	<b>0.0983</b>	<b>2.8000e-004</b>	<b>0.0329</b>	<b>1.9000e-004</b>	<b>0.0331</b>	<b>8.7200e-003</b>	<b>1.7000e-004</b>	<b>8.8900e-003</b>		<b>28.8229</b>	<b>28.8229</b>	<b>9.3000e-004</b>	<b>8.5000e-004</b>	<b>29.0997</b>

Hollandia Dairy Phase 1 - San Diego County, Winter

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

**3.7 Paving - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6877	6.7738	8.8060	0.0135		0.3474	0.3474		0.3205	0.3205		1,297.378 <sub>9</sub>	1,297.378 <sub>9</sub>	0.4113		1,307.660 <sub>8</sub>
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.6877</b>	<b>6.7738</b>	<b>8.8060</b>	<b>0.0135</b>		<b>0.3474</b>	<b>0.3474</b>		<b>0.3205</b>	<b>0.3205</b>		<b>1,297.378<sub>9</sub></b>	<b>1,297.378<sub>9</sub></b>	<b>0.4113</b>		<b>1,307.660<sub>8</sub></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	0.0411	0.0278	0.3196	9.2000e-004	0.1068	6.0000e-004	0.1074	0.0283	5.6000e-004	0.0289		93.6743	93.6743	3.0300e-003	2.7600e-003	94.5739
<b>Total</b>	<b>0.0411</b>	<b>0.0278</b>	<b>0.3196</b>	<b>9.2000e-004</b>	<b>0.1068</b>	<b>6.0000e-004</b>	<b>0.1074</b>	<b>0.0283</b>	<b>5.6000e-004</b>	<b>0.0289</b>		<b>93.6743</b>	<b>93.6743</b>	<b>3.0300e-003</b>	<b>2.7600e-003</b>	<b>94.5739</b>

Hollandia Dairy Phase 1 - San Diego County, Winter

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

**3.7 Paving - 2022**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1598	0.6922	9.8512	0.0135		0.0213	0.0213		0.0213	0.0213	0.0000	1,297.378 <sub>9</sub>	1,297.378 <sub>9</sub>	0.4113		1,307.660 <sub>8</sub>
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.1598</b>	<b>0.6922</b>	<b>9.8512</b>	<b>0.0135</b>		<b>0.0213</b>	<b>0.0213</b>		<b>0.0213</b>	<b>0.0213</b>	<b>0.0000</b>	<b>1,297.378<sub>9</sub></b>	<b>1,297.378<sub>9</sub></b>	<b>0.4113</b>		<b>1,307.660<sub>8</sub></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	0.0411	0.0278	0.3196	9.2000e-004	0.1068	6.0000e-004	0.1074	0.0283	5.6000e-004	0.0289		93.6743	93.6743	3.0300e-003	2.7600e-003	94.5739
<b>Total</b>	<b>0.0411</b>	<b>0.0278</b>	<b>0.3196</b>	<b>9.2000e-004</b>	<b>0.1068</b>	<b>6.0000e-004</b>	<b>0.1074</b>	<b>0.0283</b>	<b>5.6000e-004</b>	<b>0.0289</b>		<b>93.6743</b>	<b>93.6743</b>	<b>3.0300e-003</b>	<b>2.7600e-003</b>	<b>94.5739</b>

Hollandia Dairy Phase 1 - San Diego County, Winter

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

**4.0 Operational Detail - Mobile**

**4.1 Mitigation Measures Mobile**

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

**4.2 Trip Summary Information**

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

**4.3 Trip Type Information**

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 Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4
Manufacturing	9.50	7.30	7.30	59.00	28.00	13.00	92	5	3
Refrigerated Warehouse-No	9.50	7.30	7.30	59.00	0.00	41.00	92	5	3

Hollandia Dairy Phase 1 - San Diego County, Winter

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

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	0.548470	0.062992	0.183336	0.122442	0.024733	0.006148	0.008613	0.006191	0.000732	0.000545	0.029420	0.000989	0.005388
Manufacturing	0.548470	0.062992	0.183336	0.122442	0.024733	0.006148	0.008613	0.006191	0.000732	0.000545	0.029420	0.000989	0.005388
Refrigerated Warehouse-No Rail	0.548470	0.062992	0.183336	0.122442	0.024733	0.006148	0.008613	0.006191	0.000732	0.000545	0.029420	0.000989	0.005388

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day										lb/day					
NaturalGas Mitigated	0.0132	0.1203	0.1010	7.2000e-004		9.1400e-003	9.1400e-003		9.1400e-003	9.1400e-003		144.2962	144.2962	2.7700e-003	2.6500e-003	145.1537
NaturalGas Unmitigated	0.0132	0.1203	0.1010	7.2000e-004		9.1400e-003	9.1400e-003		9.1400e-003	9.1400e-003		144.2962	144.2962	2.7700e-003	2.6500e-003	145.1537

Hollandia Dairy Phase 1 - San Diego County, Winter

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

**5.2 Energy by Land Use - NaturalGas**

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Office Building	504.866	5.4400e-003	0.0495	0.0416	3.0000e-004		3.7600e-003	3.7600e-003		3.7600e-003	3.7600e-003		59.3960	59.3960	1.1400e-003	1.0900e-003	59.7489
Manufacturing	110.466	1.1900e-003	0.0108	9.1000e-003	6.0000e-005		8.2000e-004	8.2000e-004		8.2000e-004	8.2000e-004		12.9960	12.9960	2.5000e-004	2.4000e-004	13.0732
Refrigerated Warehouse-No Rail	611.186	6.5900e-003	0.0599	0.0503	3.6000e-004		4.5500e-003	4.5500e-003		4.5500e-003	4.5500e-003		71.9043	71.9043	1.3800e-003	1.3200e-003	72.3316
<b>Total</b>		<b>0.0132</b>	<b>0.1203</b>	<b>0.1010</b>	<b>7.2000e-004</b>		<b>9.1300e-003</b>	<b>9.1300e-003</b>		<b>9.1300e-003</b>	<b>9.1300e-003</b>		<b>144.2962</b>	<b>144.2962</b>	<b>2.7700e-003</b>	<b>2.6500e-003</b>	<b>145.1537</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 Office Building	0.504866	5.4400e-003	0.0495	0.0416	3.0000e-004		3.7600e-003	3.7600e-003		3.7600e-003	3.7600e-003		59.3960	59.3960	1.1400e-003	1.0900e-003	59.7489
Manufacturing	0.110466	1.1900e-003	0.0108	9.1000e-003	6.0000e-005		8.2000e-004	8.2000e-004		8.2000e-004	8.2000e-004		12.9960	12.9960	2.5000e-004	2.4000e-004	13.0732
Refrigerated Warehouse-No Rail	0.611186	6.5900e-003	0.0599	0.0503	3.6000e-004		4.5500e-003	4.5500e-003		4.5500e-003	4.5500e-003		71.9043	71.9043	1.3800e-003	1.3200e-003	72.3316
<b>Total</b>		<b>0.0132</b>	<b>0.1203</b>	<b>0.1010</b>	<b>7.2000e-004</b>		<b>9.1300e-003</b>	<b>9.1300e-003</b>		<b>9.1300e-003</b>	<b>9.1300e-003</b>		<b>144.2962</b>	<b>144.2962</b>	<b>2.7700e-003</b>	<b>2.6500e-003</b>	<b>145.1537</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.1522	4.0000e-005	4.9200e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0105	0.0105	3.0000e-005		0.0112
Unmitigated	1.1522	4.0000e-005	4.9200e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0105	0.0105	3.0000e-005		0.0112

**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	0.1222					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.0296					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.6000e-004	4.0000e-005	4.9200e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0105	0.0105	3.0000e-005		0.0112
<b>Total</b>	<b>1.1522</b>	<b>4.0000e-005</b>	<b>4.9200e-003</b>	<b>0.0000</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>		<b>0.0105</b>	<b>0.0105</b>	<b>3.0000e-005</b>		<b>0.0112</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	0.1222					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.0296					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.6000e-004	4.0000e-005	4.9200e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0105	0.0105	3.0000e-005		0.0112
<b>Total</b>	<b>1.1522</b>	<b>4.0000e-005</b>	<b>4.9200e-003</b>	<b>0.0000</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>		<b>0.0105</b>	<b>0.0105</b>	<b>3.0000e-005</b>		<b>0.0112</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

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

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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

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**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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**11.0 Vegetation**

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

**Hollandia Dairy Phase 1**

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**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	9.20	1000sqft	0.21	9,200.00	0
Manufacturing	3.50	1000sqft	0.08	3,500.00	0
Refrigerated Warehouse-No Rail	35.41	1000sqft	0.81	35,410.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.6	<b>Precipitation Freq (Days)</b>	40
<b>Climate Zone</b>	13			<b>Operational Year</b>	2022
<b>Utility Company</b>	San Diego Gas & Electric				
<b>CO2 Intensity (lb/MW hr)</b>	539.98	<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 - Phase 1 48.1 ksf

Construction Phase - Phase 1 Construction

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Trips and VMT -

Demolition -

Grading -

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

Architectural Coating - Rule 67 Paints

Vehicle Trips - Project would maintain existing traffic. No additional trips expected due to remodel

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Area Coating - Rule 67 Paints

Energy Use -

Construction Off-road Equipment Mitigation - Tier 4 Equipment

Fleet Mix -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	100.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	100.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	100
tblAreaCoating	Area_EF_Nonresidential_Interior	250	100
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	8.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final

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

tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblGrading	MaterialImported	0.00	3,600.00
tblGrading	MaterialImported	0.00	1,800.00
tblVehicleTrips	ST_TR	2.21	0.00
tblVehicleTrips	ST_TR	6.42	0.00
tblVehicleTrips	ST_TR	2.12	0.00
tblVehicleTrips	SU_TR	0.70	0.00
tblVehicleTrips	SU_TR	5.09	0.00
tblVehicleTrips	SU_TR	2.12	0.00
tblVehicleTrips	WD_TR	9.74	0.00
tblVehicleTrips	WD_TR	3.93	0.00
tblVehicleTrips	WD_TR	2.12	0.00

**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					
2021	0.0663	0.6115	0.4645	1.0500e-003	0.0378	0.0279	0.0657	0.0139	0.0265	0.0404	0.0000	92.9202	92.9202	0.0149	4.3100e-003	94.5769
2022	0.3654	1.0797	1.1222	2.1000e-003	0.0171	0.0497	0.0668	4.6500e-003	0.0479	0.0526	0.0000	176.3545	176.3545	0.0280	2.2400e-003	177.7229
<b>Maximum</b>	<b>0.3654</b>	<b>1.0797</b>	<b>1.1222</b>	<b>2.1000e-003</b>	<b>0.0378</b>	<b>0.0497</b>	<b>0.0668</b>	<b>0.0139</b>	<b>0.0479</b>	<b>0.0526</b>	<b>0.0000</b>	<b>176.3545</b>	<b>176.3545</b>	<b>0.0280</b>	<b>4.3100e-003</b>	<b>177.7229</b>

**Mitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.0143	0.1735	0.4746	1.0500e-003	0.0378	2.3200e-003	0.0401	0.0139	2.2600e-003	0.0162	0.0000	92.9201	92.9201	0.0149	4.3100e-003	94.5768
2022	0.2534	0.3397	1.1593	2.1000e-003	0.0171	3.0000e-003	0.0201	4.6500e-003	2.9700e-003	7.6200e-003	0.0000	176.3543	176.3543	0.0280	2.2400e-003	177.7227
<b>Maximum</b>	<b>0.2534</b>	<b>0.3397</b>	<b>1.1593</b>	<b>2.1000e-003</b>	<b>0.0378</b>	<b>3.0000e-003</b>	<b>0.0401</b>	<b>0.0139</b>	<b>2.9700e-003</b>	<b>0.0162</b>	<b>0.0000</b>	<b>176.3543</b>	<b>176.3543</b>	<b>0.0280</b>	<b>4.3100e-003</b>	<b>177.7227</b>

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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
Percent Reduction	37.99	69.66	-2.98	0.00	0.00	93.15	54.56	0.00	92.98	74.44	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
2	9-1-2021	11-30-2021	0.4916	0.1325
3	12-1-2021	2-28-2022	0.4885	0.1480
4	3-1-2022	5-31-2022	0.4828	0.1494
5	6-1-2022	8-31-2022	0.6187	0.3148
		Highest	0.6187	0.3148

**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	0.2102	0.0000	4.4000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	8.6000e-004	8.6000e-004	0.0000	0.0000	9.2000e-004
Energy	2.4100e-003	0.0220	0.0184	1.3000e-004		1.6700e-003	1.6700e-003		1.6700e-003	1.6700e-003	0.0000	349.2186	349.2186	0.0203	2.8500e-003	350.5757
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	9.3762	0.0000	9.3762	0.5541	0.0000	23.2290
Water						0.0000	0.0000		0.0000	0.0000	3.3734	36.6387	40.0120	0.3487	8.4500e-003	51.2489
<b>Total</b>	<b>0.2126</b>	<b>0.0220</b>	<b>0.0189</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>1.6700e-003</b>	<b>1.6700e-003</b>	<b>0.0000</b>	<b>1.6700e-003</b>	<b>1.6700e-003</b>	<b>12.7495</b>	<b>385.8581</b>	<b>398.6076</b>	<b>0.9232</b>	<b>0.0113</b>	<b>425.0545</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	0.2102	0.0000	4.4000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	8.6000e-004	8.6000e-004	0.0000	0.0000	9.2000e-004
Energy	2.4100e-003	0.0220	0.0184	1.3000e-004		1.6700e-003	1.6700e-003		1.6700e-003	1.6700e-003	0.0000	349.2186	349.2186	0.0203	2.8500e-003	350.5757
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	9.3762	0.0000	9.3762	0.5541	0.0000	23.2290
Water						0.0000	0.0000		0.0000	0.0000	3.3734	36.6387	40.0120	0.3487	8.4500e-003	51.2489
<b>Total</b>	<b>0.2126</b>	<b>0.0220</b>	<b>0.0189</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>1.6700e-003</b>	<b>1.6700e-003</b>	<b>0.0000</b>	<b>1.6700e-003</b>	<b>1.6700e-003</b>	<b>12.7495</b>	<b>385.8581</b>	<b>398.6076</b>	<b>0.9232</b>	<b>0.0113</b>	<b>425.0545</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	10/1/2021	10/28/2021	5	20	
2	Site Preparation	Site Preparation	10/29/2021	11/1/2021	5	2	
3	Grading	Grading	11/2/2021	11/5/2021	5	4	

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4	Building Construction	Building Construction	11/6/2021	8/12/2022	5	200
5	Architectural Coating	Architectural Coating	8/1/2022	8/12/2022	5	10
6	Paving	Paving	8/13/2022	8/26/2022	5	10

**Acres of Grading (Site Preparation Phase): 1.88**

**Acres of Grading (Grading Phase): 4**

**Acres of Paving: 0**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 72,165; Non-Residential Outdoor: 24,055; 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
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Rubber Tired Dozers	1	7.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	1	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	6.00	231	0.29
Building Construction	Forklifts	1	6.00	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
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	1	6.00	9	0.56
Paving	Pavers	1	6.00	130	0.42

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Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	5	13.00	0.00	49.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	225.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	450.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	19.00	8.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	4.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	13.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Use Cleaner Engines for Construction Equipment

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**3.2 Demolition - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					5.4200e-003	0.0000	5.4200e-003	8.2000e-004	0.0000	8.2000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0199	0.1970	0.1449	2.4000e-004		0.0104	0.0104		9.7100e-003	9.7100e-003	0.0000	21.0713	21.0713	5.3900e-003	0.0000	21.2060
<b>Total</b>	<b>0.0199</b>	<b>0.1970</b>	<b>0.1449</b>	<b>2.4000e-004</b>	<b>5.4200e-003</b>	<b>0.0104</b>	<b>0.0158</b>	<b>8.2000e-004</b>	<b>9.7100e-003</b>	<b>0.0105</b>	<b>0.0000</b>	<b>21.0713</b>	<b>21.0713</b>	<b>5.3900e-003</b>	<b>0.0000</b>	<b>21.2060</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	tons/yr										MT/yr					
Hauling	1.8000e-004	4.8700e-003	1.1300e-003	2.0000e-005	4.2000e-004	7.0000e-005	4.9000e-004	1.2000e-004	7.0000e-005	1.8000e-004	0.0000	1.5794	1.5794	7.0000e-005	2.5000e-004	1.6559
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.0000e-004	3.1000e-004	3.4600e-003	1.0000e-005	1.0400e-003	1.0000e-005	1.0500e-003	2.8000e-004	1.0000e-005	2.8000e-004	0.0000	0.8805	0.8805	3.0000e-005	3.0000e-005	0.8892
<b>Total</b>	<b>5.8000e-004</b>	<b>5.1800e-003</b>	<b>4.5900e-003</b>	<b>3.0000e-005</b>	<b>1.4600e-003</b>	<b>8.0000e-005</b>	<b>1.5400e-003</b>	<b>4.0000e-004</b>	<b>8.0000e-005</b>	<b>4.6000e-004</b>	<b>0.0000</b>	<b>2.4598</b>	<b>2.4598</b>	<b>1.0000e-004</b>	<b>2.8000e-004</b>	<b>2.5451</b>

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**3.2 Demolition - 2021**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					5.4200e-003	0.0000	5.4200e-003	8.2000e-004	0.0000	8.2000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.8100e-003	0.0122	0.1472	2.4000e-004		3.7000e-004	3.7000e-004		3.7000e-004	3.7000e-004	0.0000	21.0713	21.0713	5.3900e-003	0.0000	21.2060
<b>Total</b>	<b>2.8100e-003</b>	<b>0.0122</b>	<b>0.1472</b>	<b>2.4000e-004</b>	<b>5.4200e-003</b>	<b>3.7000e-004</b>	<b>5.7900e-003</b>	<b>8.2000e-004</b>	<b>3.7000e-004</b>	<b>1.1900e-003</b>	<b>0.0000</b>	<b>21.0713</b>	<b>21.0713</b>	<b>5.3900e-003</b>	<b>0.0000</b>	<b>21.2060</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	tons/yr										MT/yr					
Hauling	1.8000e-004	4.8700e-003	1.1300e-003	2.0000e-005	4.2000e-004	7.0000e-005	4.9000e-004	1.2000e-004	7.0000e-005	1.8000e-004	0.0000	1.5794	1.5794	7.0000e-005	2.5000e-004	1.6559
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.0000e-004	3.1000e-004	3.4600e-003	1.0000e-005	1.0400e-003	1.0000e-005	1.0500e-003	2.8000e-004	1.0000e-005	2.8000e-004	0.0000	0.8805	0.8805	3.0000e-005	3.0000e-005	0.8892
<b>Total</b>	<b>5.8000e-004</b>	<b>5.1800e-003</b>	<b>4.5900e-003</b>	<b>3.0000e-005</b>	<b>1.4600e-003</b>	<b>8.0000e-005</b>	<b>1.5400e-003</b>	<b>4.0000e-004</b>	<b>8.0000e-005</b>	<b>4.6000e-004</b>	<b>0.0000</b>	<b>2.4598</b>	<b>2.4598</b>	<b>1.0000e-004</b>	<b>2.8000e-004</b>	<b>2.5451</b>

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

**3.3 Site Preparation - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					6.3900e-003	0.0000	6.3900e-003	3.0200e-003	0.0000	3.0200e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.5600e-003	0.0174	7.5600e-003	2.0000e-005		7.7000e-004	7.7000e-004		7.0000e-004	7.0000e-004	0.0000	1.5118	1.5118	4.9000e-004	0.0000	1.5241
<b>Total</b>	<b>1.5600e-003</b>	<b>0.0174</b>	<b>7.5600e-003</b>	<b>2.0000e-005</b>	<b>6.3900e-003</b>	<b>7.7000e-004</b>	<b>7.1600e-003</b>	<b>3.0200e-003</b>	<b>7.0000e-004</b>	<b>3.7200e-003</b>	<b>0.0000</b>	<b>1.5118</b>	<b>1.5118</b>	<b>4.9000e-004</b>	<b>0.0000</b>	<b>1.5241</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	tons/yr										MT/yr					
Hauling	8.2000e-004	0.0224	5.2000e-003	7.0000e-005	1.9300e-003	3.2000e-004	2.2500e-003	5.3000e-004	3.1000e-004	8.4000e-004	0.0000	7.2521	7.2521	3.4000e-004	1.1500e-003	7.6037
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.0000e-005	2.0000e-005	2.1000e-004	0.0000	6.0000e-005	0.0000	6.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0542	0.0542	0.0000	0.0000	0.0547
<b>Total</b>	<b>8.4000e-004</b>	<b>0.0224</b>	<b>5.4100e-003</b>	<b>7.0000e-005</b>	<b>1.9900e-003</b>	<b>3.2000e-004</b>	<b>2.3100e-003</b>	<b>5.5000e-004</b>	<b>3.1000e-004</b>	<b>8.6000e-004</b>	<b>0.0000</b>	<b>7.3063</b>	<b>7.3063</b>	<b>3.4000e-004</b>	<b>1.1500e-003</b>	<b>7.6584</b>

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**3.3 Site Preparation - 2021**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					6.3900e-003	0.0000	6.3900e-003	3.0200e-003	0.0000	3.0200e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.1000e-004	9.1000e-004	8.6700e-003	2.0000e-005		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	1.5118	1.5118	4.9000e-004	0.0000	1.5241
<b>Total</b>	<b>2.1000e-004</b>	<b>9.1000e-004</b>	<b>8.6700e-003</b>	<b>2.0000e-005</b>	<b>6.3900e-003</b>	<b>3.0000e-005</b>	<b>6.4200e-003</b>	<b>3.0200e-003</b>	<b>3.0000e-005</b>	<b>3.0500e-003</b>	<b>0.0000</b>	<b>1.5118</b>	<b>1.5118</b>	<b>4.9000e-004</b>	<b>0.0000</b>	<b>1.5241</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	tons/yr										MT/yr					
Hauling	8.2000e-004	0.0224	5.2000e-003	7.0000e-005	1.9300e-003	3.2000e-004	2.2500e-003	5.3000e-004	3.1000e-004	8.4000e-004	0.0000	7.2521	7.2521	3.4000e-004	1.1500e-003	7.6037
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.0000e-005	2.0000e-005	2.1000e-004	0.0000	6.0000e-005	0.0000	6.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0542	0.0542	0.0000	0.0000	0.0547
<b>Total</b>	<b>8.4000e-004</b>	<b>0.0224</b>	<b>5.4100e-003</b>	<b>7.0000e-005</b>	<b>1.9900e-003</b>	<b>3.2000e-004</b>	<b>2.3100e-003</b>	<b>5.5000e-004</b>	<b>3.1000e-004</b>	<b>8.6000e-004</b>	<b>0.0000</b>	<b>7.3063</b>	<b>7.3063</b>	<b>3.4000e-004</b>	<b>1.1500e-003</b>	<b>7.6584</b>

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**3.4 Grading - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0144	0.0000	0.0144	6.8900e-003	0.0000	6.8900e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.6500e-003	0.0404	0.0195	4.0000e-005		1.8300e-003	1.8300e-003		1.6800e-003	1.6800e-003	0.0000	3.6208	3.6208	1.1700e-003	0.0000	3.6501
<b>Total</b>	<b>3.6500e-003</b>	<b>0.0404</b>	<b>0.0195</b>	<b>4.0000e-005</b>	<b>0.0144</b>	<b>1.8300e-003</b>	<b>0.0163</b>	<b>6.8900e-003</b>	<b>1.6800e-003</b>	<b>8.5700e-003</b>	<b>0.0000</b>	<b>3.6208</b>	<b>3.6208</b>	<b>1.1700e-003</b>	<b>0.0000</b>	<b>3.6501</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	tons/yr										MT/yr					
Hauling	1.6400e-003	0.0448	0.0104	1.5000e-004	3.8500e-003	6.4000e-004	4.5000e-003	1.0600e-003	6.2000e-004	1.6700e-003	0.0000	14.5043	14.5043	6.8000e-004	2.3000e-003	15.2073
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.0000e-005	5.0000e-005	5.3000e-004	0.0000	1.6000e-004	0.0000	1.6000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1355	0.1355	0.0000	0.0000	0.1368
<b>Total</b>	<b>1.7000e-003</b>	<b>0.0448</b>	<b>0.0109</b>	<b>1.5000e-004</b>	<b>4.0100e-003</b>	<b>6.4000e-004</b>	<b>4.6600e-003</b>	<b>1.1000e-003</b>	<b>6.2000e-004</b>	<b>1.7100e-003</b>	<b>0.0000</b>	<b>14.6397</b>	<b>14.6397</b>	<b>6.8000e-004</b>	<b>2.3000e-003</b>	<b>15.3441</b>

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**3.4 Grading - 2021**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0144	0.0000	0.0144	6.8900e-003	0.0000	6.8900e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.0000e-004	2.1900e-003	0.0218	4.0000e-005		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005	0.0000	3.6208	3.6208	1.1700e-003	0.0000	3.6501
<b>Total</b>	<b>5.0000e-004</b>	<b>2.1900e-003</b>	<b>0.0218</b>	<b>4.0000e-005</b>	<b>0.0144</b>	<b>7.0000e-005</b>	<b>0.0145</b>	<b>6.8900e-003</b>	<b>7.0000e-005</b>	<b>6.9600e-003</b>	<b>0.0000</b>	<b>3.6208</b>	<b>3.6208</b>	<b>1.1700e-003</b>	<b>0.0000</b>	<b>3.6501</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	tons/yr										MT/yr					
Hauling	1.6400e-003	0.0448	0.0104	1.5000e-004	3.8500e-003	6.4000e-004	4.5000e-003	1.0600e-003	6.2000e-004	1.6700e-003	0.0000	14.5043	14.5043	6.8000e-004	2.3000e-003	15.2073
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.0000e-005	5.0000e-005	5.3000e-004	0.0000	1.6000e-004	0.0000	1.6000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1355	0.1355	0.0000	0.0000	0.1368
<b>Total</b>	<b>1.7000e-003</b>	<b>0.0448</b>	<b>0.0109</b>	<b>1.5000e-004</b>	<b>4.0100e-003</b>	<b>6.4000e-004</b>	<b>4.6600e-003</b>	<b>1.1000e-003</b>	<b>6.2000e-004</b>	<b>1.7100e-003</b>	<b>0.0000</b>	<b>14.6397</b>	<b>14.6397</b>	<b>6.8000e-004</b>	<b>2.3000e-003</b>	<b>15.3441</b>

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

**3.5 Building Construction - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0363	0.2727	0.2580	4.4000e-004		0.0137	0.0137		0.0132	0.0132	0.0000	36.3095	36.3095	6.4800e-003	0.0000	36.4716
<b>Total</b>	<b>0.0363</b>	<b>0.2727</b>	<b>0.2580</b>	<b>4.4000e-004</b>		<b>0.0137</b>	<b>0.0137</b>		<b>0.0132</b>	<b>0.0132</b>	<b>0.0000</b>	<b>36.3095</b>	<b>36.3095</b>	<b>6.4800e-003</b>	<b>0.0000</b>	<b>36.4716</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	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.7000e-004	0.0107	3.4200e-003	4.0000e-005	1.0600e-003	1.8000e-004	1.2400e-003	3.1000e-004	1.7000e-004	4.8000e-004	0.0000	3.4273	3.4273	1.1000e-004	5.0000e-004	3.5785
Worker	1.1700e-003	9.0000e-004	0.0101	3.0000e-005	3.0500e-003	2.0000e-005	3.0700e-003	8.1000e-004	2.0000e-005	8.3000e-004	0.0000	2.5736	2.5736	9.0000e-005	8.0000e-005	2.5991
<b>Total</b>	<b>1.7400e-003</b>	<b>0.0116</b>	<b>0.0135</b>	<b>7.0000e-005</b>	<b>4.1100e-003</b>	<b>2.0000e-004</b>	<b>4.3100e-003</b>	<b>1.1200e-003</b>	<b>1.9000e-004</b>	<b>1.3100e-003</b>	<b>0.0000</b>	<b>6.0009</b>	<b>6.0009</b>	<b>2.0000e-004</b>	<b>5.8000e-004</b>	<b>6.1776</b>

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

**3.5 Building Construction - 2021**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	5.8600e-003	0.0742	0.2625	4.4000e-004		6.1000e-004	6.1000e-004		6.1000e-004	6.1000e-004	0.0000	36.3095	36.3095	6.4800e-003	0.0000	36.4715
<b>Total</b>	<b>5.8600e-003</b>	<b>0.0742</b>	<b>0.2625</b>	<b>4.4000e-004</b>		<b>6.1000e-004</b>	<b>6.1000e-004</b>		<b>6.1000e-004</b>	<b>6.1000e-004</b>	<b>0.0000</b>	<b>36.3095</b>	<b>36.3095</b>	<b>6.4800e-003</b>	<b>0.0000</b>	<b>36.4715</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	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.7000e-004	0.0107	3.4200e-003	4.0000e-005	1.0600e-003	1.8000e-004	1.2400e-003	3.1000e-004	1.7000e-004	4.8000e-004	0.0000	3.4273	3.4273	1.1000e-004	5.0000e-004	3.5785
Worker	1.1700e-003	9.0000e-004	0.0101	3.0000e-005	3.0500e-003	2.0000e-005	3.0700e-003	8.1000e-004	2.0000e-005	8.3000e-004	0.0000	2.5736	2.5736	9.0000e-005	8.0000e-005	2.5991
<b>Total</b>	<b>1.7400e-003</b>	<b>0.0116</b>	<b>0.0135</b>	<b>7.0000e-005</b>	<b>4.1100e-003</b>	<b>2.0000e-004</b>	<b>4.3100e-003</b>	<b>1.1200e-003</b>	<b>1.9000e-004</b>	<b>1.3100e-003</b>	<b>0.0000</b>	<b>6.0009</b>	<b>6.0009</b>	<b>2.0000e-004</b>	<b>5.8000e-004</b>	<b>6.1776</b>

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

**3.5 Building Construction - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1319	1.0002	1.0181	1.7600e-003		0.0471	0.0471		0.0455	0.0455	0.0000	145.2615	145.2615	0.0253	0.0000	145.8940
<b>Total</b>	<b>0.1319</b>	<b>1.0002</b>	<b>1.0181</b>	<b>1.7600e-003</b>		<b>0.0471</b>	<b>0.0471</b>		<b>0.0455</b>	<b>0.0455</b>	<b>0.0000</b>	<b>145.2615</b>	<b>145.2615</b>	<b>0.0253</b>	<b>0.0000</b>	<b>145.8940</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	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.4200e-003	0.0352	0.0115	1.4000e-004	4.2500e-003	3.7000e-004	4.6200e-003	1.2300e-003	3.5000e-004	1.5800e-003	0.0000	13.3465	13.3465	4.1000e-004	1.9400e-003	13.9344
Worker	4.3900e-003	3.1900e-003	0.0374	1.1000e-004	0.0122	7.0000e-005	0.0123	3.2400e-003	7.0000e-005	3.3000e-003	0.0000	10.0244	10.0244	3.1000e-004	2.9000e-004	10.1185
<b>Total</b>	<b>5.8100e-003</b>	<b>0.0384</b>	<b>0.0489</b>	<b>2.5000e-004</b>	<b>0.0164</b>	<b>4.4000e-004</b>	<b>0.0169</b>	<b>4.4700e-003</b>	<b>4.2000e-004</b>	<b>4.8800e-003</b>	<b>0.0000</b>	<b>23.3709</b>	<b>23.3709</b>	<b>7.2000e-004</b>	<b>2.2300e-003</b>	<b>24.0529</b>

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

**3.5 Building Construction - 2022**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0234	0.2970	1.0499	1.7600e-003		2.4200e-003	2.4200e-003		2.4200e-003	2.4200e-003	0.0000	145.2614	145.2614	0.0253	0.0000	145.8939
<b>Total</b>	<b>0.0234</b>	<b>0.2970</b>	<b>1.0499</b>	<b>1.7600e-003</b>		<b>2.4200e-003</b>	<b>2.4200e-003</b>		<b>2.4200e-003</b>	<b>2.4200e-003</b>	<b>0.0000</b>	<b>145.2614</b>	<b>145.2614</b>	<b>0.0253</b>	<b>0.0000</b>	<b>145.8939</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	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.4200e-003	0.0352	0.0115	1.4000e-004	4.2500e-003	3.7000e-004	4.6200e-003	1.2300e-003	3.5000e-004	1.5800e-003	0.0000	13.3465	13.3465	4.1000e-004	1.9400e-003	13.9344
Worker	4.3900e-003	3.1900e-003	0.0374	1.1000e-004	0.0122	7.0000e-005	0.0123	3.2400e-003	7.0000e-005	3.3000e-003	0.0000	10.0244	10.0244	3.1000e-004	2.9000e-004	10.1185
<b>Total</b>	<b>5.8100e-003</b>	<b>0.0384</b>	<b>0.0489</b>	<b>2.5000e-004</b>	<b>0.0164</b>	<b>4.4000e-004</b>	<b>0.0169</b>	<b>4.4700e-003</b>	<b>4.2000e-004</b>	<b>4.8800e-003</b>	<b>0.0000</b>	<b>23.3709</b>	<b>23.3709</b>	<b>7.2000e-004</b>	<b>2.2300e-003</b>	<b>24.0529</b>

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

**3.6 Architectural Coating - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.2230					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.0200e-003	7.0400e-003	9.0700e-003	1.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004	0.0000	1.2766	1.2766	8.0000e-005	0.0000	1.2787
<b>Total</b>	<b>0.2240</b>	<b>7.0400e-003</b>	<b>9.0700e-003</b>	<b>1.0000e-005</b>		<b>4.1000e-004</b>	<b>4.1000e-004</b>		<b>4.1000e-004</b>	<b>4.1000e-004</b>	<b>0.0000</b>	<b>1.2766</b>	<b>1.2766</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>1.2787</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	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.0000e-005	4.0000e-005	4.9000e-004	0.0000	1.6000e-004	0.0000	1.6000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1319	0.1319	0.0000	0.0000	0.1331
<b>Total</b>	<b>6.0000e-005</b>	<b>4.0000e-005</b>	<b>4.9000e-004</b>	<b>0.0000</b>	<b>1.6000e-004</b>	<b>0.0000</b>	<b>1.6000e-004</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>0.1319</b>	<b>0.1319</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.1331</b>

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

**3.6 Architectural Coating - 2022**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.2230					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.5000e-004	6.4000e-004	9.1600e-003	1.0000e-005		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	1.2766	1.2766	8.0000e-005	0.0000	1.2787
<b>Total</b>	<b>0.2231</b>	<b>6.4000e-004</b>	<b>9.1600e-003</b>	<b>1.0000e-005</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>1.2766</b>	<b>1.2766</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>1.2787</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	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.0000e-005	4.0000e-005	4.9000e-004	0.0000	1.6000e-004	0.0000	1.6000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1319	0.1319	0.0000	0.0000	0.1331
<b>Total</b>	<b>6.0000e-005</b>	<b>4.0000e-005</b>	<b>4.9000e-004</b>	<b>0.0000</b>	<b>1.6000e-004</b>	<b>0.0000</b>	<b>1.6000e-004</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>0.1319</b>	<b>0.1319</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.1331</b>

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

**3.7 Paving - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	3.4400e-003	0.0339	0.0440	7.0000e-005		1.7400e-003	1.7400e-003		1.6000e-003	1.6000e-003	0.0000	5.8848	5.8848	1.8700e-003	0.0000	5.9315
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>3.4400e-003</b>	<b>0.0339</b>	<b>0.0440</b>	<b>7.0000e-005</b>		<b>1.7400e-003</b>	<b>1.7400e-003</b>		<b>1.6000e-003</b>	<b>1.6000e-003</b>	<b>0.0000</b>	<b>5.8848</b>	<b>5.8848</b>	<b>1.8700e-003</b>	<b>0.0000</b>	<b>5.9315</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	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.9000e-004	1.4000e-004	1.6000e-003	0.0000	5.2000e-004	0.0000	5.2000e-004	1.4000e-004	0.0000	1.4000e-004	0.0000	0.4287	0.4287	1.0000e-005	1.0000e-005	0.4327
<b>Total</b>	<b>1.9000e-004</b>	<b>1.4000e-004</b>	<b>1.6000e-003</b>	<b>0.0000</b>	<b>5.2000e-004</b>	<b>0.0000</b>	<b>5.2000e-004</b>	<b>1.4000e-004</b>	<b>0.0000</b>	<b>1.4000e-004</b>	<b>0.0000</b>	<b>0.4287</b>	<b>0.4287</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.4327</b>

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

**3.7 Paving - 2022**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	8.0000e-004	3.4600e-003	0.0493	7.0000e-005		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004	0.0000	5.8848	5.8848	1.8700e-003	0.0000	5.9314
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>8.0000e-004</b>	<b>3.4600e-003</b>	<b>0.0493</b>	<b>7.0000e-005</b>		<b>1.1000e-004</b>	<b>1.1000e-004</b>		<b>1.1000e-004</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>5.8848</b>	<b>5.8848</b>	<b>1.8700e-003</b>	<b>0.0000</b>	<b>5.9314</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	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.9000e-004	1.4000e-004	1.6000e-003	0.0000	5.2000e-004	0.0000	5.2000e-004	1.4000e-004	0.0000	1.4000e-004	0.0000	0.4287	0.4287	1.0000e-005	1.0000e-005	0.4327
<b>Total</b>	<b>1.9000e-004</b>	<b>1.4000e-004</b>	<b>1.6000e-003</b>	<b>0.0000</b>	<b>5.2000e-004</b>	<b>0.0000</b>	<b>5.2000e-004</b>	<b>1.4000e-004</b>	<b>0.0000</b>	<b>1.4000e-004</b>	<b>0.0000</b>	<b>0.4287</b>	<b>0.4287</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.4327</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	tons/yr										MT/yr						
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.2 Trip Summary Information

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

4.3 Trip Type Information

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 Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4
Manufacturing	9.50	7.30	7.30	59.00	28.00	13.00	92	5	3
Refrigerated Warehouse-No	9.50	7.30	7.30	59.00	0.00	41.00	92	5	3

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

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	0.548470	0.062992	0.183336	0.122442	0.024733	0.006148	0.008613	0.006191	0.000732	0.000545	0.029420	0.000989	0.005388
Manufacturing	0.548470	0.062992	0.183336	0.122442	0.024733	0.006148	0.008613	0.006191	0.000732	0.000545	0.029420	0.000989	0.005388
Refrigerated Warehouse-No Rail	0.548470	0.062992	0.183336	0.122442	0.024733	0.006148	0.008613	0.006191	0.000732	0.000545	0.029420	0.000989	0.005388

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	325.3287	325.3287	0.0199	2.4100e-003	326.5439
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	325.3287	325.3287	0.0199	2.4100e-003	326.5439
NaturalGas Mitigated	2.4100e-003	0.0220	0.0184	1.3000e-004		1.6700e-003	1.6700e-003		1.6700e-003	1.6700e-003	0.0000	23.8899	23.8899	4.6000e-004	4.4000e-004	24.0318
NaturalGas Unmitigated	2.4100e-003	0.0220	0.0184	1.3000e-004		1.6700e-003	1.6700e-003		1.6700e-003	1.6700e-003	0.0000	23.8899	23.8899	4.6000e-004	4.4000e-004	24.0318

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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 - 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 Office Building	184276	9.9000e-004	9.0300e-003	7.5900e-003	5.0000e-005		6.9000e-004	6.9000e-004		6.9000e-004	6.9000e-004	0.0000	9.8337	9.8337	1.9000e-004	1.8000e-004	9.8921
Manufacturing	40320	2.2000e-004	1.9800e-003	1.6600e-003	1.0000e-005		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004	0.0000	2.1516	2.1516	4.0000e-005	4.0000e-005	2.1644
Refrigerated Warehouse-No Rail	223083	1.2000e-003	0.0109	9.1900e-003	7.0000e-005		8.3000e-004	8.3000e-004		8.3000e-004	8.3000e-004	0.0000	11.9046	11.9046	2.3000e-004	2.2000e-004	11.9753
<b>Total</b>		<b>2.4100e-003</b>	<b>0.0220</b>	<b>0.0184</b>	<b>1.3000e-004</b>		<b>1.6700e-003</b>	<b>1.6700e-003</b>		<b>1.6700e-003</b>	<b>1.6700e-003</b>	<b>0.0000</b>	<b>23.8899</b>	<b>23.8899</b>	<b>4.6000e-004</b>	<b>4.4000e-004</b>	<b>24.0318</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	tons/yr										MT/yr					
General Office Building	184276	9.9000e-004	9.0300e-003	7.5900e-003	5.0000e-005		6.9000e-004	6.9000e-004		6.9000e-004	6.9000e-004	0.0000	9.8337	9.8337	1.9000e-004	1.8000e-004	9.8921
Manufacturing	40320	2.2000e-004	1.9800e-003	1.6600e-003	1.0000e-005		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004	0.0000	2.1516	2.1516	4.0000e-005	4.0000e-005	2.1644
Refrigerated Warehouse-No Rail	223083	1.2000e-003	0.0109	9.1900e-003	7.0000e-005		8.3000e-004	8.3000e-004		8.3000e-004	8.3000e-004	0.0000	11.9046	11.9046	2.3000e-004	2.2000e-004	11.9753
<b>Total</b>		<b>2.4100e-003</b>	<b>0.0220</b>	<b>0.0184</b>	<b>1.3000e-004</b>		<b>1.6700e-003</b>	<b>1.6700e-003</b>		<b>1.6700e-003</b>	<b>1.6700e-003</b>	<b>0.0000</b>	<b>23.8899</b>	<b>23.8899</b>	<b>4.6000e-004</b>	<b>4.4000e-004</b>	<b>24.0318</b>

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

**5.3 Energy by Land Use - Electricity**

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	119048	29.1585	1.7800e-003	2.2000e-004	29.2674
Manufacturing	28630	7.0124	4.3000e-004	5.0000e-005	7.0386
Refrigerated Warehouse-No Rail	1.18057e+006	289.1578	0.0177	2.1400e-003	290.2379
<b>Total</b>		<b>325.3287</b>	<b>0.0199</b>	<b>2.4100e-003</b>	<b>326.5439</b>

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

**5.3 Energy by Land Use - Electricity**

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	119048	29.1585	1.7800e-003	2.2000e-004	29.2674
Manufacturing	28630	7.0124	4.3000e-004	5.0000e-005	7.0386
Refrigerated Warehouse-No Rail	1.18057e+006	289.1578	0.0177	2.1400e-003	290.2379
<b>Total</b>		<b>325.3287</b>	<b>0.0199</b>	<b>2.4100e-003</b>	<b>326.5439</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.2102	0.0000	4.4000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	8.6000e-004	8.6000e-004	0.0000	0.0000	9.2000e-004
Unmitigated	0.2102	0.0000	4.4000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	8.6000e-004	8.6000e-004	0.0000	0.0000	9.2000e-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	0.0223					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1879					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.0000e-005	0.0000	4.4000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	8.6000e-004	8.6000e-004	0.0000	0.0000	9.2000e-004
<b>Total</b>	<b>0.2102</b>	<b>0.0000</b>	<b>4.4000e-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>8.6000e-004</b>	<b>8.6000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>9.2000e-004</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	tons/yr										MT/yr					
Architectural Coating	0.0223					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1879					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.0000e-005	0.0000	4.4000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	8.6000e-004	8.6000e-004	0.0000	0.0000	9.2000e-004
<b>Total</b>	<b>0.2102</b>	<b>0.0000</b>	<b>4.4000e-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>8.6000e-004</b>	<b>8.6000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>9.2000e-004</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

Hollandia Dairy Phase 1 - San Diego County, Annual

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

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	40.0120	0.3487	8.4500e-003	51.2489
Unmitigated	40.0120	0.3487	8.4500e-003	51.2489

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	1.63515 / 1.00219	8.4608	0.0538	1.3200e-003	10.1974
Manufacturing	0.809375 / 0	2.8381	0.0265	6.4000e-004	3.6926
Refrigerated Warehouse-No Rail	8.18856 / 0	28.7132	0.2684	6.4900e-003	37.3588
<b>Total</b>		<b>40.0120</b>	<b>0.3487</b>	<b>8.4500e-003</b>	<b>51.2489</b>

Hollandia Dairy Phase 1 - San Diego County, Annual

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

**7.2 Water by Land Use**

**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	1.63515 / 1.00219	8.4608	0.0538	1.3200e-003	10.1974
Manufacturing	0.809375 / 0	2.8381	0.0265	6.4000e-004	3.6926
Refrigerated Warehouse-No Rail	8.18856 / 0	28.7132	0.2684	6.4900e-003	37.3588
<b>Total</b>		<b>40.0120</b>	<b>0.3487</b>	<b>8.4500e-003</b>	<b>51.2489</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

Hollandia Dairy Phase 1 - San Diego County, Annual

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

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	9.3762	0.5541	0.0000	23.2290
Unmitigated	9.3762	0.5541	0.0000	23.2290

**8.2 Waste by Land Use**

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	8.56	1.7376	0.1027	0.0000	4.3048
Manufacturing	4.34	0.8810	0.0521	0.0000	2.1826
Refrigerated Warehouse-No Rail	33.29	6.7576	0.3994	0.0000	16.7416
<b>Total</b>		<b>9.3762</b>	<b>0.5541</b>	<b>0.0000</b>	<b>23.2290</b>

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

**8.2 Waste by Land Use**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	8.56	1.7376	0.1027	0.0000	4.3048
Manufacturing	4.34	0.8810	0.0521	0.0000	2.1826
Refrigerated Warehouse-No Rail	33.29	6.7576	0.3994	0.0000	16.7416
<b>Total</b>		<b>9.3762</b>	<b>0.5541</b>	<b>0.0000</b>	<b>23.2290</b>

**9.0 Operational Offroad**

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

**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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Hollandia Dairy Phase 1 - San Diego County, Annual

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

**11.0 Vegetation**

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Hollandia Dairy Phase 2 - San Diego County, Summer

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

**Hollandia Dairy Phase 2**

**San Diego County, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	28.00	1000sqft	0.64	28,008.00	0
User Defined Industrial	28.00	User Defined Unit	0.00	28,008.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.6	<b>Precipitation Freq (Days)</b>	40
<b>Climate Zone</b>	13			<b>Operational Year</b>	2023
<b>Utility Company</b>	San Diego Gas & Electric				
<b>CO2 Intensity (lb/MWhr)</b>	539.98	<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 - Phase 2 28ksf Usable space, 28ksf unusable space added for construction purposes but operations would be zero

Construction Phase - Phase 2 Construction

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Trips and VMT -

Demolition -

Grading -

Architectural Coating - Rule 67 Paints



Hollandia Dairy Phase 2 - San Diego County, Summer

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

tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	5.00	8.00
tblLandUse	LandUseSquareFeet	28,000.00	28,008.00
tblLandUse	LandUseSquareFeet	0.00	28,008.00
tblVehicleTrips	ST_TR	1.74	0.00
tblVehicleTrips	SU_TR	1.74	0.00
tblVehicleTrips	WD_TR	1.74	0.00

**2.0 Emissions Summary**

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Hollandia Dairy Phase 2 - San Diego 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					
2022	0.7866	8.0709	8.0247	0.0175	4.9553	0.3921	5.3474	2.5365	0.3607	2.8973	0.0000	1,742.2776	1,742.2776	0.3686	0.0843	1,773.3654
2023	65.8225	8.1567	9.7450	0.0183	0.2992	0.3947	0.6939	0.0807	0.3689	0.4496	0.0000	1,800.4267	1,800.4267	0.3859	0.0341	1,820.2384
<b>Maximum</b>	<b>65.8225</b>	<b>8.1567</b>	<b>9.7450</b>	<b>0.0183</b>	<b>4.9553</b>	<b>0.3947</b>	<b>5.3474</b>	<b>2.5365</b>	<b>0.3689</b>	<b>2.8973</b>	<b>0.0000</b>	<b>1,800.4267</b>	<b>1,800.4267</b>	<b>0.3859</b>	<b>0.0843</b>	<b>1,820.2384</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					
2022	0.2298	1.8117	8.5086	0.0175	4.9553	0.0299	4.9705	2.5365	0.0293	2.5516	0.0000	1,742.2776	1,742.2776	0.3686	0.0843	1,773.3654
2023	65.1680	1.1690	10.3954	0.0183	0.2992	0.0262	0.3254	0.0807	0.0260	0.1068	0.0000	1,800.4267	1,800.4267	0.3859	0.0341	1,820.2384
<b>Maximum</b>	<b>65.1680</b>	<b>1.8117</b>	<b>10.3954</b>	<b>0.0183</b>	<b>4.9553</b>	<b>0.0299</b>	<b>4.9705</b>	<b>2.5365</b>	<b>0.0293</b>	<b>2.5516</b>	<b>0.0000</b>	<b>1,800.4267</b>	<b>1,800.4267</b>	<b>0.3859</b>	<b>0.0843</b>	<b>1,820.2384</b>

## Hollandia Dairy Phase 2 - San Diego 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	1.82	81.63	-6.38	0.00	0.00	92.87	12.34	0.00	92.41	20.57	0.00	0.00	0.00	0.00	0.00	0.00

Hollandia Dairy Phase 2 - San Diego 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	1.3415	5.0000e-005	5.7200e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0123	0.0123	3.0000e-005		0.0131
Energy	1.3700e-003	0.0124	0.0104	7.0000e-005		9.4000e-004	9.4000e-004		9.4000e-004	9.4000e-004		14.8955	14.8955	2.9000e-004	2.7000e-004	14.9840
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>1.3429</b>	<b>0.0125</b>	<b>0.0162</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>9.6000e-004</b>	<b>9.6000e-004</b>	<b>0.0000</b>	<b>9.6000e-004</b>	<b>9.6000e-004</b>		<b>14.9077</b>	<b>14.9077</b>	<b>3.2000e-004</b>	<b>2.7000e-004</b>	<b>14.9971</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	1.3415	5.0000e-005	5.7200e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0123	0.0123	3.0000e-005		0.0131
Energy	1.3700e-003	0.0124	0.0104	7.0000e-005		9.4000e-004	9.4000e-004		9.4000e-004	9.4000e-004		14.8955	14.8955	2.9000e-004	2.7000e-004	14.9840
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>1.3429</b>	<b>0.0125</b>	<b>0.0162</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>9.6000e-004</b>	<b>9.6000e-004</b>	<b>0.0000</b>	<b>9.6000e-004</b>	<b>9.6000e-004</b>		<b>14.9077</b>	<b>14.9077</b>	<b>3.2000e-004</b>	<b>2.7000e-004</b>	<b>14.9971</b>

Hollandia Dairy Phase 2 - San Diego 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	12/1/2022	12/14/2022	5	10	
2	Site Preparation	Site Preparation	12/15/2022	12/15/2022	5	1	
3	Grading	Grading	12/16/2022	12/19/2022	5	2	
4	Building Construction	Building Construction	12/20/2022	5/8/2023	5	100	
5	Paving	Paving	5/9/2023	5/15/2023	5	5	
6	Architectural Coating	Architectural Coating	4/27/2023	5/8/2023	5	8	

**Acres of Grading (Site Preparation Phase): 0.5**

**Acres of Grading (Grading Phase): 0.75**

**Acres of Paving: 0**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 84,024; Non-Residential Outdoor: 28,008; 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	1.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37

Hollandia Dairy Phase 2 - San Diego County, Summer

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

Grading	Rubber Tired Dozers	1	6.00	247	0.40
Grading	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Building Construction	Cranes	1	4.00	231	0.29
Building Construction	Forklifts	2	6.00	89	0.20
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Paving	Pavers	1	7.00	130	0.42
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	7.00	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	4	10.00	0.00	75.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	2	5.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	2	5.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	24.00	9.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	5.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Use Cleaner Engines for Construction Equipment

Hollandia Dairy Phase 2 - San Diego County, Summer

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

**3.2 Demolition - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.6445	0.0000	1.6445	0.2490	0.0000	0.2490			0.0000			0.0000
Off-Road	0.7094	6.4138	7.4693	0.0120		0.3375	0.3375		0.3225	0.3225		1,147.9025	1,147.9025	0.2119		1,153.2001
<b>Total</b>	<b>0.7094</b>	<b>6.4138</b>	<b>7.4693</b>	<b>0.0120</b>	<b>1.6445</b>	<b>0.3375</b>	<b>1.9820</b>	<b>0.2490</b>	<b>0.3225</b>	<b>0.5716</b>		<b>1,147.9025</b>	<b>1,147.9025</b>	<b>0.2119</b>		<b>1,153.2001</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	0.0336	1.2181	0.2961	4.7100e-003	0.1312	0.0117	0.1429	0.0360	0.0112	0.0472		518.1147	518.1147	0.0249	0.0823	543.2643
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	0.0292	0.0190	0.2593	7.5000e-004	0.0822	4.7000e-004	0.0826	0.0218	4.3000e-004	0.0222		76.2605	76.2605	2.1900e-003	1.9700e-003	76.9011
<b>Total</b>	<b>0.0628</b>	<b>1.2371</b>	<b>0.5554</b>	<b>5.4600e-003</b>	<b>0.2133</b>	<b>0.0122</b>	<b>0.2255</b>	<b>0.0577</b>	<b>0.0117</b>	<b>0.0694</b>		<b>594.3751</b>	<b>594.3751</b>	<b>0.0271</b>	<b>0.0843</b>	<b>620.1653</b>

Hollandia Dairy Phase 2 - San Diego County, Summer

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

**3.2 Demolition - 2022**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.6445	0.0000	1.6445	0.2490	0.0000	0.2490			0.0000			0.0000
Off-Road	0.1326	0.5747	7.8509	0.0120		0.0177	0.0177		0.0177	0.0177	0.0000	1,147.9025	1,147.9025	0.2119		1,153.2001
<b>Total</b>	<b>0.1326</b>	<b>0.5747</b>	<b>7.8509</b>	<b>0.0120</b>	<b>1.6445</b>	<b>0.0177</b>	<b>1.6621</b>	<b>0.2490</b>	<b>0.0177</b>	<b>0.2667</b>	<b>0.0000</b>	<b>1,147.9025</b>	<b>1,147.9025</b>	<b>0.2119</b>		<b>1,153.2001</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	0.0336	1.2181	0.2961	4.7100e-003	0.1312	0.0117	0.1429	0.0360	0.0112	0.0472		518.1147	518.1147	0.0249	0.0823	543.2643
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	0.0292	0.0190	0.2593	7.5000e-004	0.0822	4.7000e-004	0.0826	0.0218	4.3000e-004	0.0222		76.2605	76.2605	2.1900e-003	1.9700e-003	76.9011
<b>Total</b>	<b>0.0628</b>	<b>1.2371</b>	<b>0.5554</b>	<b>5.4600e-003</b>	<b>0.2133</b>	<b>0.0122</b>	<b>0.2255</b>	<b>0.0577</b>	<b>0.0117</b>	<b>0.0694</b>		<b>594.3751</b>	<b>594.3751</b>	<b>0.0271</b>	<b>0.0843</b>	<b>620.1653</b>

Hollandia Dairy Phase 2 - San Diego County, Summer

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

**3.3 Site Preparation - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000
Off-Road	0.5797	6.9332	3.9597	9.7300e-003		0.2573	0.2573		0.2367	0.2367		942.5179	942.5179	0.3048		950.1386
<b>Total</b>	<b>0.5797</b>	<b>6.9332</b>	<b>3.9597</b>	<b>9.7300e-003</b>	<b>0.5303</b>	<b>0.2573</b>	<b>0.7876</b>	<b>0.0573</b>	<b>0.2367</b>	<b>0.2940</b>		<b>942.5179</b>	<b>942.5179</b>	<b>0.3048</b>		<b>950.1386</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	0.0146	9.5000e-003	0.1297	3.7000e-004	0.0411	2.3000e-004	0.0413	0.0109	2.1000e-004	0.0111		38.1302	38.1302	1.0900e-003	9.8000e-004	38.4505
<b>Total</b>	<b>0.0146</b>	<b>9.5000e-003</b>	<b>0.1297</b>	<b>3.7000e-004</b>	<b>0.0411</b>	<b>2.3000e-004</b>	<b>0.0413</b>	<b>0.0109</b>	<b>2.1000e-004</b>	<b>0.0111</b>		<b>38.1302</b>	<b>38.1302</b>	<b>1.0900e-003</b>	<b>9.8000e-004</b>	<b>38.4505</b>

Hollandia Dairy Phase 2 - San Diego County, Summer

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

**3.3 Site Preparation - 2022**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000
Off-Road	0.1191	0.5162	5.3170	9.7300e-003		0.0159	0.0159		0.0159	0.0159	0.0000	942.5179	942.5179	0.3048		950.1386
<b>Total</b>	<b>0.1191</b>	<b>0.5162</b>	<b>5.3170</b>	<b>9.7300e-003</b>	<b>0.5303</b>	<b>0.0159</b>	<b>0.5461</b>	<b>0.0573</b>	<b>0.0159</b>	<b>0.0731</b>	<b>0.0000</b>	<b>942.5179</b>	<b>942.5179</b>	<b>0.3048</b>		<b>950.1386</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	0.0146	9.5000e-003	0.1297	3.7000e-004	0.0411	2.3000e-004	0.0413	0.0109	2.1000e-004	0.0111		38.1302	38.1302	1.0900e-003	9.8000e-004	38.4505
<b>Total</b>	<b>0.0146</b>	<b>9.5000e-003</b>	<b>0.1297</b>	<b>3.7000e-004</b>	<b>0.0411</b>	<b>2.3000e-004</b>	<b>0.0413</b>	<b>0.0109</b>	<b>2.1000e-004</b>	<b>0.0111</b>		<b>38.1302</b>	<b>38.1302</b>	<b>1.0900e-003</b>	<b>9.8000e-004</b>	<b>38.4505</b>

Hollandia Dairy Phase 2 - San Diego County, Summer

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

**3.4 Grading - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					4.9143	0.0000	4.9143	2.5256	0.0000	2.5256			0.0000			0.0000
Off-Road	0.7720	8.0614	4.6447	9.1200e-003		0.3919	0.3919		0.3605	0.3605		883.8606	883.8606	0.2859		891.0071
<b>Total</b>	<b>0.7720</b>	<b>8.0614</b>	<b>4.6447</b>	<b>9.1200e-003</b>	<b>4.9143</b>	<b>0.3919</b>	<b>5.3061</b>	<b>2.5256</b>	<b>0.3605</b>	<b>2.8861</b>		<b>883.8606</b>	<b>883.8606</b>	<b>0.2859</b>		<b>891.0071</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	0.0146	9.5000e-003	0.1297	3.7000e-004	0.0411	2.3000e-004	0.0413	0.0109	2.1000e-004	0.0111		38.1302	38.1302	1.0900e-003	9.8000e-004	38.4505
<b>Total</b>	<b>0.0146</b>	<b>9.5000e-003</b>	<b>0.1297</b>	<b>3.7000e-004</b>	<b>0.0411</b>	<b>2.3000e-004</b>	<b>0.0413</b>	<b>0.0109</b>	<b>2.1000e-004</b>	<b>0.0111</b>		<b>38.1302</b>	<b>38.1302</b>	<b>1.0900e-003</b>	<b>9.8000e-004</b>	<b>38.4505</b>

Hollandia Dairy Phase 2 - San Diego County, Summer

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

**3.4 Grading - 2022**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					4.9143	0.0000	4.9143	2.5256	0.0000	2.5256			0.0000			0.0000
Off-Road	0.1117	0.4838	4.9245	9.1200e-003		0.0149	0.0149		0.0149	0.0149	0.0000	883.8606	883.8606	0.2859		891.0071
<b>Total</b>	<b>0.1117</b>	<b>0.4838</b>	<b>4.9245</b>	<b>9.1200e-003</b>	<b>4.9143</b>	<b>0.0149</b>	<b>4.9291</b>	<b>2.5256</b>	<b>0.0149</b>	<b>2.5405</b>	<b>0.0000</b>	<b>883.8606</b>	<b>883.8606</b>	<b>0.2859</b>		<b>891.0071</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	0.0146	9.5000e-003	0.1297	3.7000e-004	0.0411	2.3000e-004	0.0413	0.0109	2.1000e-004	0.0111		38.1302	38.1302	1.0900e-003	9.8000e-004	38.4505
<b>Total</b>	<b>0.0146</b>	<b>9.5000e-003</b>	<b>0.1297</b>	<b>3.7000e-004</b>	<b>0.0411</b>	<b>2.3000e-004</b>	<b>0.0413</b>	<b>0.0109</b>	<b>2.1000e-004</b>	<b>0.0111</b>		<b>38.1302</b>	<b>38.1302</b>	<b>1.0900e-003</b>	<b>9.8000e-004</b>	<b>38.4505</b>

Hollandia Dairy Phase 2 - San Diego County, Summer

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

**3.5 Building Construction - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6863	7.0258	7.1527	0.0114		0.3719	0.3719		0.3422	0.3422		1,103.9393	1,103.9393	0.3570		1,112.8652
<b>Total</b>	<b>0.6863</b>	<b>7.0258</b>	<b>7.1527</b>	<b>0.0114</b>		<b>0.3719</b>	<b>0.3719</b>		<b>0.3422</b>	<b>0.3422</b>		<b>1,103.9393</b>	<b>1,103.9393</b>	<b>0.3570</b>		<b>1,112.8652</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	0.0201	0.4786	0.1601	1.9200e-003	0.0610	5.2000e-003	0.0662	0.0176	4.9800e-003	0.0225		206.8431	206.8431	6.2900e-003	0.0300	215.9473
Worker	0.0701	0.0456	0.6223	1.8000e-003	0.1972	1.1200e-003	0.1983	0.0523	1.0300e-003	0.0533		183.0251	183.0251	5.2500e-003	4.7200e-003	184.5626
<b>Total</b>	<b>0.0901</b>	<b>0.5242</b>	<b>0.7824</b>	<b>3.7200e-003</b>	<b>0.2581</b>	<b>6.3200e-003</b>	<b>0.2644</b>	<b>0.0698</b>	<b>6.0100e-003</b>	<b>0.0758</b>		<b>389.8682</b>	<b>389.8682</b>	<b>0.0115</b>	<b>0.0347</b>	<b>400.5099</b>

Hollandia Dairy Phase 2 - San Diego County, Summer

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

**3.5 Building Construction - 2022**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1397	0.6052	7.7261	0.0114		0.0186	0.0186		0.0186	0.0186	0.0000	1,103.939 3	1,103.939 3	0.3570		1,112.865 2
<b>Total</b>	<b>0.1397</b>	<b>0.6052</b>	<b>7.7261</b>	<b>0.0114</b>		<b>0.0186</b>	<b>0.0186</b>		<b>0.0186</b>	<b>0.0186</b>	<b>0.0000</b>	<b>1,103.939 3</b>	<b>1,103.939 3</b>	<b>0.3570</b>		<b>1,112.865 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0201	0.4786	0.1601	1.9200e-003	0.0610	5.2000e-003	0.0662	0.0176	4.9800e-003	0.0225		206.8431	206.8431	6.2900e-003	0.0300	215.9473
Worker	0.0701	0.0456	0.6223	1.8000e-003	0.1972	1.1200e-003	0.1983	0.0523	1.0300e-003	0.0533		183.0251	183.0251	5.2500e-003	4.7200e-003	184.5626
<b>Total</b>	<b>0.0901</b>	<b>0.5242</b>	<b>0.7824</b>	<b>3.7200e-003</b>	<b>0.2581</b>	<b>6.3200e-003</b>	<b>0.2644</b>	<b>0.0698</b>	<b>6.0100e-003</b>	<b>0.0758</b>		<b>389.8682</b>	<b>389.8682</b>	<b>0.0115</b>	<b>0.0347</b>	<b>400.5099</b>

Hollandia Dairy Phase 2 - San Diego County, Summer

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

**3.5 Building Construction - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6322	6.4186	7.0970	0.0114		0.3203	0.3203		0.2946	0.2946		1,104.6089	1,104.6089	0.3573		1,113.5402
<b>Total</b>	<b>0.6322</b>	<b>6.4186</b>	<b>7.0970</b>	<b>0.0114</b>		<b>0.3203</b>	<b>0.3203</b>		<b>0.2946</b>	<b>0.2946</b>		<b>1,104.6089</b>	<b>1,104.6089</b>	<b>0.3573</b>		<b>1,113.5402</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	0.0108	0.3858	0.1390	1.8400e-003	0.0610	2.3500e-003	0.0633	0.0176	2.2500e-003	0.0198		198.9423	198.9423	6.0300e-003	0.0288	207.6770
Worker	0.0656	0.0408	0.5775	1.7400e-003	0.1972	1.0600e-003	0.1982	0.0523	9.8000e-004	0.0533		178.2849	178.2849	4.7700e-003	4.3900e-003	179.7122
<b>Total</b>	<b>0.0764</b>	<b>0.4266</b>	<b>0.7166</b>	<b>3.5800e-003</b>	<b>0.2581</b>	<b>3.4100e-003</b>	<b>0.2615</b>	<b>0.0698</b>	<b>3.2300e-003</b>	<b>0.0731</b>		<b>377.2271</b>	<b>377.2271</b>	<b>0.0108</b>	<b>0.0332</b>	<b>387.3892</b>

Hollandia Dairy Phase 2 - San Diego County, Summer

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

**3.5 Building Construction - 2023**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1397	0.6052	7.7261	0.0114		0.0186	0.0186		0.0186	0.0186	0.0000	1,104.6089	1,104.6089	0.3573		1,113.5402
<b>Total</b>	<b>0.1397</b>	<b>0.6052</b>	<b>7.7261</b>	<b>0.0114</b>		<b>0.0186</b>	<b>0.0186</b>		<b>0.0186</b>	<b>0.0186</b>	<b>0.0000</b>	<b>1,104.6089</b>	<b>1,104.6089</b>	<b>0.3573</b>		<b>1,113.5402</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	0.0108	0.3858	0.1390	1.8400e-003	0.0610	2.3500e-003	0.0633	0.0176	2.2500e-003	0.0198		198.9423	198.9423	6.0300e-003	0.0288	207.6770
Worker	0.0656	0.0408	0.5775	1.7400e-003	0.1972	1.0600e-003	0.1982	0.0523	9.8000e-004	0.0533		178.2849	178.2849	4.7700e-003	4.3900e-003	179.7122
<b>Total</b>	<b>0.0764</b>	<b>0.4266</b>	<b>0.7166</b>	<b>3.5800e-003</b>	<b>0.2581</b>	<b>3.4100e-003</b>	<b>0.2615</b>	<b>0.0698</b>	<b>3.2300e-003</b>	<b>0.0731</b>		<b>377.2271</b>	<b>377.2271</b>	<b>0.0108</b>	<b>0.0332</b>	<b>387.3892</b>

Hollandia Dairy Phase 2 - San Diego County, Summer

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

**3.6 Paving - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6112	5.5046	7.0209	0.0113		0.2643	0.2643		0.2466	0.2466		1,036.0878	1,036.0878	0.3018		1,043.6331
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.6112</b>	<b>5.5046</b>	<b>7.0209</b>	<b>0.0113</b>		<b>0.2643</b>	<b>0.2643</b>		<b>0.2466</b>	<b>0.2466</b>		<b>1,036.0878</b>	<b>1,036.0878</b>	<b>0.3018</b>		<b>1,043.6331</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	0.0492	0.0306	0.4332	1.3100e-003	0.1479	8.0000e-004	0.1487	0.0392	7.3000e-004	0.0400		133.7136	133.7136	3.5800e-003	3.2900e-003	134.7841
<b>Total</b>	<b>0.0492</b>	<b>0.0306</b>	<b>0.4332</b>	<b>1.3100e-003</b>	<b>0.1479</b>	<b>8.0000e-004</b>	<b>0.1487</b>	<b>0.0392</b>	<b>7.3000e-004</b>	<b>0.0400</b>		<b>133.7136</b>	<b>133.7136</b>	<b>3.5800e-003</b>	<b>3.2900e-003</b>	<b>134.7841</b>

Hollandia Dairy Phase 2 - San Diego County, Summer

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

**3.6 Paving - 2023**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1119	0.4851	6.9028	0.0113		0.0149	0.0149		0.0149	0.0149	0.0000	1,036.0878	1,036.0878	0.3018		1,043.6331
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.1119</b>	<b>0.4851</b>	<b>6.9028</b>	<b>0.0113</b>		<b>0.0149</b>	<b>0.0149</b>		<b>0.0149</b>	<b>0.0149</b>	<b>0.0000</b>	<b>1,036.0878</b>	<b>1,036.0878</b>	<b>0.3018</b>		<b>1,043.6331</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	0.0492	0.0306	0.4332	1.3100e-003	0.1479	8.0000e-004	0.1487	0.0392	7.3000e-004	0.0400		133.7136	133.7136	3.5800e-003	3.2900e-003	134.7841
<b>Total</b>	<b>0.0492</b>	<b>0.0306</b>	<b>0.4332</b>	<b>1.3100e-003</b>	<b>0.1479</b>	<b>8.0000e-004</b>	<b>0.1487</b>	<b>0.0392</b>	<b>7.3000e-004</b>	<b>0.0400</b>		<b>133.7136</b>	<b>133.7136</b>	<b>3.5800e-003</b>	<b>3.2900e-003</b>	<b>134.7841</b>

Hollandia Dairy Phase 2 - San Diego County, Summer

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

**3.7 Architectural Coating - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	64.9085					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690
<b>Total</b>	<b>65.1002</b>	<b>1.3030</b>	<b>1.8111</b>	<b>2.9700e-003</b>		<b>0.0708</b>	<b>0.0708</b>		<b>0.0708</b>	<b>0.0708</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0168</b>		<b>281.8690</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	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	0.0137	8.4900e-003	0.1203	3.6000e-004	0.0411	2.2000e-004	0.0413	0.0109	2.0000e-004	0.0111		37.1427	37.1427	9.9000e-004	9.1000e-004	37.4400
<b>Total</b>	<b>0.0137</b>	<b>8.4900e-003</b>	<b>0.1203</b>	<b>3.6000e-004</b>	<b>0.0411</b>	<b>2.2000e-004</b>	<b>0.0413</b>	<b>0.0109</b>	<b>2.0000e-004</b>	<b>0.0111</b>		<b>37.1427</b>	<b>37.1427</b>	<b>9.9000e-004</b>	<b>9.1000e-004</b>	<b>37.4400</b>

Hollandia Dairy Phase 2 - San Diego County, Summer

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

**3.7 Architectural Coating - 2023**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	64.9085					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0297	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0168		281.8690
<b>Total</b>	<b>64.9383</b>	<b>0.1288</b>	<b>1.8324</b>	<b>2.9700e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0168</b>		<b>281.8690</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	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	0.0137	8.4900e-003	0.1203	3.6000e-004	0.0411	2.2000e-004	0.0413	0.0109	2.0000e-004	0.0111		37.1427	37.1427	9.9000e-004	9.1000e-004	37.4400
<b>Total</b>	<b>0.0137</b>	<b>8.4900e-003</b>	<b>0.1203</b>	<b>3.6000e-004</b>	<b>0.0411</b>	<b>2.2000e-004</b>	<b>0.0413</b>	<b>0.0109</b>	<b>2.0000e-004</b>	<b>0.0111</b>		<b>37.1427</b>	<b>37.1427</b>	<b>9.9000e-004</b>	<b>9.1000e-004</b>	<b>37.4400</b>

Hollandia Dairy Phase 2 - San Diego County, Summer

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

**4.0 Operational Detail - Mobile**

**4.1 Mitigation Measures Mobile**

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

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00		
User Defined Industrial	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

**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
Unrefrigerated Warehouse-No	9.50	7.30	7.30	59.00	0.00	41.00	92	5	3
User Defined Industrial	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

**4.4 Fleet Mix**

Hollandia Dairy Phase 2 - San Diego County, Summer

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

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Unrefrigerated Warehouse-No Rail	0.553514	0.062792	0.181046	0.120736	0.024419	0.006214	0.008493	0.006184	0.000715	0.000556	0.029185	0.000982	0.005164
User Defined Industrial	0.553514	0.062792	0.181046	0.120736	0.024419	0.006214	0.008493	0.006184	0.000715	0.000556	0.029185	0.000982	0.005164

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Category	lb/day											lb/day				
	ROG	NOX	CO	SO2	Fugitive PM10	Exhaust PM10	Total PM10	Fugitive PM2.5	Exhaust PM2.5	Total PM2.5	Bio-CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
NaturalGas Mitigated	1.3700e-003	0.0124	0.0104	7.0000e-005	9.4000e-004	9.4000e-004	9.4000e-004	9.4000e-004	9.4000e-004	9.4000e-004	14.8955	14.8955	14.8955	2.9000e-004	2.7000e-004	14.9840
NaturalGas Unmitigated	1.3700e-003	0.0124	0.0104	7.0000e-005	9.4000e-004	9.4000e-004	9.4000e-004	9.4000e-004	9.4000e-004	9.4000e-004	14.8955	14.8955	14.8955	2.9000e-004	2.7000e-004	14.9840



Hollandia Dairy Phase 2 - San Diego County, Summer

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

**6.1 Mitigation Measures Area**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.3415	5.0000e-005	5.7200e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0123	0.0123	3.0000e-005		0.0131
Unmitigated	1.3415	5.0000e-005	5.7200e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0123	0.0123	3.0000e-005		0.0131

**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	0.1423					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.1987					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.3000e-004	5.0000e-005	5.7200e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0123	0.0123	3.0000e-005		0.0131
<b>Total</b>	<b>1.3415</b>	<b>5.0000e-005</b>	<b>5.7200e-003</b>	<b>0.0000</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>		<b>0.0123</b>	<b>0.0123</b>	<b>3.0000e-005</b>		<b>0.0131</b>

Hollandia Dairy Phase 2 - San Diego 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	0.1423					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.1987					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.3000e-004	5.0000e-005	5.7200e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0123	0.0123	3.0000e-005		0.0131
<b>Total</b>	<b>1.3415</b>	<b>5.0000e-005</b>	<b>5.7200e-003</b>	<b>0.0000</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>		<b>0.0123</b>	<b>0.0123</b>	<b>3.0000e-005</b>		<b>0.0131</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

Hollandia Dairy Phase 2 - San Diego 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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Hollandia Dairy Phase 2 - San Diego County, Winter

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

**Hollandia Dairy Phase 2  
San Diego County, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	28.00	1000sqft	0.64	28,008.00	0
User Defined Industrial	28.00	User Defined Unit	0.00	28,008.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.6	<b>Precipitation Freq (Days)</b>	40
<b>Climate Zone</b>	13			<b>Operational Year</b>	2023
<b>Utility Company</b>	San Diego Gas & Electric				
<b>CO2 Intensity (lb/MWhr)</b>	539.98	<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 - Phase 2 28ksf Usable space, 28ksf unusable space added for construction purposes but operations would be zero

Construction Phase - Phase 2 Construction

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Trips and VMT -

Demolition -

Grading -

Architectural Coating - Rule 67 Paints



Hollandia Dairy Phase 2 - San Diego County, Winter

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

tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	5.00	8.00
tblLandUse	LandUseSquareFeet	28,000.00	28,008.00
tblLandUse	LandUseSquareFeet	0.00	28,008.00
tblVehicleTrips	ST_TR	1.74	0.00
tblVehicleTrips	SU_TR	1.74	0.00
tblVehicleTrips	WD_TR	1.74	0.00

**2.0 Emissions Summary**

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Hollandia Dairy Phase 2 - San Diego 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					
2022	0.7877	8.0721	8.0158	0.0174	4.9553	0.3921	5.3474	2.5365	0.3607	2.8973	0.0000	1,738.2937	1,738.2937	0.3689	0.0845	1,769.4431
2023	65.8289	8.1791	9.7145	0.0182	0.2992	0.3947	0.6939	0.0807	0.3689	0.4496	0.0000	1,788.8679	1,788.8679	0.3862	0.0346	1,808.8372
<b>Maximum</b>	<b>65.8289</b>	<b>8.1791</b>	<b>9.7145</b>	<b>0.0182</b>	<b>4.9553</b>	<b>0.3947</b>	<b>5.3474</b>	<b>2.5365</b>	<b>0.3689</b>	<b>2.8973</b>	<b>0.0000</b>	<b>1,788.8679</b>	<b>1,788.8679</b>	<b>0.3862</b>	<b>0.0845</b>	<b>1,808.8372</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					
2022	0.2353	1.8598	8.4812	0.0174	4.9553	0.0299	4.9705	2.5365	0.0294	2.5516	0.0000	1,738.2937	1,738.2937	0.3689	0.0845	1,769.4431
2023	65.1744	1.1914	10.3649	0.0182	0.2992	0.0262	0.3254	0.0807	0.0260	0.1068	0.0000	1,788.8679	1,788.8679	0.3862	0.0346	1,808.8372
<b>Maximum</b>	<b>65.1744</b>	<b>1.8598</b>	<b>10.3649</b>	<b>0.0182</b>	<b>4.9553</b>	<b>0.0299</b>	<b>4.9705</b>	<b>2.5365</b>	<b>0.0294</b>	<b>2.5516</b>	<b>0.0000</b>	<b>1,788.8679</b>	<b>1,788.8679</b>	<b>0.3862</b>	<b>0.0845</b>	<b>1,808.8372</b>

## Hollandia Dairy Phase 2 - San Diego 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	1.81	81.22	-6.29	0.00	0.00	92.87	12.34	0.00	92.41	20.57	0.00	0.00	0.00	0.00	0.00	0.00

Hollandia Dairy Phase 2 - San Diego 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	1.3415	5.0000e-005	5.7200e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0123	0.0123	3.0000e-005		0.0131
Energy	1.3700e-003	0.0124	0.0104	7.0000e-005		9.4000e-004	9.4000e-004		9.4000e-004	9.4000e-004		14.8955	14.8955	2.9000e-004	2.7000e-004	14.9840
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>1.3429</b>	<b>0.0125</b>	<b>0.0162</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>9.6000e-004</b>	<b>9.6000e-004</b>	<b>0.0000</b>	<b>9.6000e-004</b>	<b>9.6000e-004</b>		<b>14.9077</b>	<b>14.9077</b>	<b>3.2000e-004</b>	<b>2.7000e-004</b>	<b>14.9971</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	1.3415	5.0000e-005	5.7200e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0123	0.0123	3.0000e-005		0.0131
Energy	1.3700e-003	0.0124	0.0104	7.0000e-005		9.4000e-004	9.4000e-004		9.4000e-004	9.4000e-004		14.8955	14.8955	2.9000e-004	2.7000e-004	14.9840
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>1.3429</b>	<b>0.0125</b>	<b>0.0162</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>9.6000e-004</b>	<b>9.6000e-004</b>	<b>0.0000</b>	<b>9.6000e-004</b>	<b>9.6000e-004</b>		<b>14.9077</b>	<b>14.9077</b>	<b>3.2000e-004</b>	<b>2.7000e-004</b>	<b>14.9971</b>

Hollandia Dairy Phase 2 - San Diego 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	12/1/2022	12/14/2022	5	10	
2	Site Preparation	Site Preparation	12/15/2022	12/15/2022	5	1	
3	Grading	Grading	12/16/2022	12/19/2022	5	2	
4	Building Construction	Building Construction	12/20/2022	5/8/2023	5	100	
5	Paving	Paving	5/9/2023	5/15/2023	5	5	
6	Architectural Coating	Architectural Coating	4/27/2023	5/8/2023	5	8	

**Acres of Grading (Site Preparation Phase): 0.5**

**Acres of Grading (Grading Phase): 0.75**

**Acres of Paving: 0**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 84,024; Non-Residential Outdoor: 28,008; 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	1.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37

Hollandia Dairy Phase 2 - San Diego County, Winter

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

Grading	Rubber Tired Dozers	1	6.00	247	0.40
Grading	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Building Construction	Cranes	1	4.00	231	0.29
Building Construction	Forklifts	2	6.00	89	0.20
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Paving	Pavers	1	7.00	130	0.42
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	7.00	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	4	10.00	0.00	75.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	2	5.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	2	5.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	24.00	9.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	5.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Use Cleaner Engines for Construction Equipment

Hollandia Dairy Phase 2 - San Diego County, Winter

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

**3.2 Demolition - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.6445	0.0000	1.6445	0.2490	0.0000	0.2490			0.0000			0.0000
Off-Road	0.7094	6.4138	7.4693	0.0120		0.3375	0.3375		0.3225	0.3225		1,147.9025	1,147.9025	0.2119		1,153.2001
<b>Total</b>	<b>0.7094</b>	<b>6.4138</b>	<b>7.4693</b>	<b>0.0120</b>	<b>1.6445</b>	<b>0.3375</b>	<b>1.9820</b>	<b>0.2490</b>	<b>0.3225</b>	<b>0.5716</b>		<b>1,147.9025</b>	<b>1,147.9025</b>	<b>0.2119</b>		<b>1,153.2001</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	0.0328	1.2638	0.3006	4.7100e-003	0.1312	0.0118	0.1429	0.0360	0.0112	0.0472		518.3341	518.3341	0.0249	0.0823	543.4939
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	0.0214	0.2458	7.1000e-004	0.0822	4.7000e-004	0.0826	0.0218	4.3000e-004	0.0222		72.0572	72.0572	2.3300e-003	2.1300e-003	72.7491
<b>Total</b>	<b>0.0643</b>	<b>1.2852</b>	<b>0.5464</b>	<b>5.4200e-003</b>	<b>0.2133</b>	<b>0.0122</b>	<b>0.2255</b>	<b>0.0577</b>	<b>0.0117</b>	<b>0.0694</b>		<b>590.3912</b>	<b>590.3912</b>	<b>0.0272</b>	<b>0.0845</b>	<b>616.2431</b>

Hollandia Dairy Phase 2 - San Diego County, Winter

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

**3.2 Demolition - 2022**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.6445	0.0000	1.6445	0.2490	0.0000	0.2490			0.0000			0.0000
Off-Road	0.1326	0.5747	7.8509	0.0120		0.0177	0.0177		0.0177	0.0177	0.0000	1,147.9025	1,147.9025	0.2119		1,153.2001
<b>Total</b>	<b>0.1326</b>	<b>0.5747</b>	<b>7.8509</b>	<b>0.0120</b>	<b>1.6445</b>	<b>0.0177</b>	<b>1.6621</b>	<b>0.2490</b>	<b>0.0177</b>	<b>0.2667</b>	<b>0.0000</b>	<b>1,147.9025</b>	<b>1,147.9025</b>	<b>0.2119</b>		<b>1,153.2001</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	0.0328	1.2638	0.3006	4.7100e-003	0.1312	0.0118	0.1429	0.0360	0.0112	0.0472		518.3341	518.3341	0.0249	0.0823	543.4939
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	0.0214	0.2458	7.1000e-004	0.0822	4.7000e-004	0.0826	0.0218	4.3000e-004	0.0222		72.0572	72.0572	2.3300e-003	2.1300e-003	72.7491
<b>Total</b>	<b>0.0643</b>	<b>1.2852</b>	<b>0.5464</b>	<b>5.4200e-003</b>	<b>0.2133</b>	<b>0.0122</b>	<b>0.2255</b>	<b>0.0577</b>	<b>0.0117</b>	<b>0.0694</b>		<b>590.3912</b>	<b>590.3912</b>	<b>0.0272</b>	<b>0.0845</b>	<b>616.2431</b>

Hollandia Dairy Phase 2 - San Diego County, Winter

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

**3.3 Site Preparation - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000
Off-Road	0.5797	6.9332	3.9597	9.7300e-003		0.2573	0.2573		0.2367	0.2367		942.5179	942.5179	0.3048		950.1386
<b>Total</b>	<b>0.5797</b>	<b>6.9332</b>	<b>3.9597</b>	<b>9.7300e-003</b>	<b>0.5303</b>	<b>0.2573</b>	<b>0.7876</b>	<b>0.0573</b>	<b>0.2367</b>	<b>0.2940</b>		<b>942.5179</b>	<b>942.5179</b>	<b>0.3048</b>		<b>950.1386</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	0.0158	0.0107	0.1229	3.5000e-004	0.0411	2.3000e-004	0.0413	0.0109	2.1000e-004	0.0111		36.0286	36.0286	1.1600e-003	1.0600e-003	36.3746
<b>Total</b>	<b>0.0158</b>	<b>0.0107</b>	<b>0.1229</b>	<b>3.5000e-004</b>	<b>0.0411</b>	<b>2.3000e-004</b>	<b>0.0413</b>	<b>0.0109</b>	<b>2.1000e-004</b>	<b>0.0111</b>		<b>36.0286</b>	<b>36.0286</b>	<b>1.1600e-003</b>	<b>1.0600e-003</b>	<b>36.3746</b>

Hollandia Dairy Phase 2 - San Diego County, Winter

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

**3.3 Site Preparation - 2022**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000
Off-Road	0.1191	0.5162	5.3170	9.7300e-003		0.0159	0.0159		0.0159	0.0159	0.0000	942.5179	942.5179	0.3048		950.1386
<b>Total</b>	<b>0.1191</b>	<b>0.5162</b>	<b>5.3170</b>	<b>9.7300e-003</b>	<b>0.5303</b>	<b>0.0159</b>	<b>0.5461</b>	<b>0.0573</b>	<b>0.0159</b>	<b>0.0731</b>	<b>0.0000</b>	<b>942.5179</b>	<b>942.5179</b>	<b>0.3048</b>		<b>950.1386</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	0.0158	0.0107	0.1229	3.5000e-004	0.0411	2.3000e-004	0.0413	0.0109	2.1000e-004	0.0111		36.0286	36.0286	1.1600e-003	1.0600e-003	36.3746
<b>Total</b>	<b>0.0158</b>	<b>0.0107</b>	<b>0.1229</b>	<b>3.5000e-004</b>	<b>0.0411</b>	<b>2.3000e-004</b>	<b>0.0413</b>	<b>0.0109</b>	<b>2.1000e-004</b>	<b>0.0111</b>		<b>36.0286</b>	<b>36.0286</b>	<b>1.1600e-003</b>	<b>1.0600e-003</b>	<b>36.3746</b>

Hollandia Dairy Phase 2 - San Diego County, Winter

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

**3.4 Grading - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					4.9143	0.0000	4.9143	2.5256	0.0000	2.5256			0.0000			0.0000
Off-Road	0.7720	8.0614	4.6447	9.1200e-003		0.3919	0.3919		0.3605	0.3605		883.8606	883.8606	0.2859		891.0071
<b>Total</b>	<b>0.7720</b>	<b>8.0614</b>	<b>4.6447</b>	<b>9.1200e-003</b>	<b>4.9143</b>	<b>0.3919</b>	<b>5.3061</b>	<b>2.5256</b>	<b>0.3605</b>	<b>2.8861</b>		<b>883.8606</b>	<b>883.8606</b>	<b>0.2859</b>		<b>891.0071</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	0.0158	0.0107	0.1229	3.5000e-004	0.0411	2.3000e-004	0.0413	0.0109	2.1000e-004	0.0111		36.0286	36.0286	1.1600e-003	1.0600e-003	36.3746
<b>Total</b>	<b>0.0158</b>	<b>0.0107</b>	<b>0.1229</b>	<b>3.5000e-004</b>	<b>0.0411</b>	<b>2.3000e-004</b>	<b>0.0413</b>	<b>0.0109</b>	<b>2.1000e-004</b>	<b>0.0111</b>		<b>36.0286</b>	<b>36.0286</b>	<b>1.1600e-003</b>	<b>1.0600e-003</b>	<b>36.3746</b>

Hollandia Dairy Phase 2 - San Diego County, Winter

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

**3.4 Grading - 2022**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					4.9143	0.0000	4.9143	2.5256	0.0000	2.5256			0.0000			0.0000
Off-Road	0.1117	0.4838	4.9245	9.1200e-003		0.0149	0.0149		0.0149	0.0149	0.0000	883.8606	883.8606	0.2859		891.0071
<b>Total</b>	<b>0.1117</b>	<b>0.4838</b>	<b>4.9245</b>	<b>9.1200e-003</b>	<b>4.9143</b>	<b>0.0149</b>	<b>4.9291</b>	<b>2.5256</b>	<b>0.0149</b>	<b>2.5405</b>	<b>0.0000</b>	<b>883.8606</b>	<b>883.8606</b>	<b>0.2859</b>		<b>891.0071</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	0.0158	0.0107	0.1229	3.5000e-004	0.0411	2.3000e-004	0.0413	0.0109	2.1000e-004	0.0111		36.0286	36.0286	1.1600e-003	1.0600e-003	36.3746
<b>Total</b>	<b>0.0158</b>	<b>0.0107</b>	<b>0.1229</b>	<b>3.5000e-004</b>	<b>0.0411</b>	<b>2.3000e-004</b>	<b>0.0413</b>	<b>0.0109</b>	<b>2.1000e-004</b>	<b>0.0111</b>		<b>36.0286</b>	<b>36.0286</b>	<b>1.1600e-003</b>	<b>1.0600e-003</b>	<b>36.3746</b>

Hollandia Dairy Phase 2 - San Diego County, Winter

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

**3.5 Building Construction - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6863	7.0258	7.1527	0.0114		0.3719	0.3719		0.3422	0.3422		1,103.9393	1,103.9393	0.3570		1,112.8652
<b>Total</b>	<b>0.6863</b>	<b>7.0258</b>	<b>7.1527</b>	<b>0.0114</b>		<b>0.3719</b>	<b>0.3719</b>		<b>0.3422</b>	<b>0.3422</b>		<b>1,103.9393</b>	<b>1,103.9393</b>	<b>0.3570</b>		<b>1,112.8652</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	0.0199	0.4967	0.1651	1.9200e-003	0.0610	5.2200e-003	0.0662	0.0176	4.9900e-003	0.0225		206.9492	206.9492	6.2600e-003	0.0301	216.0655
Worker	0.0758	0.0513	0.5900	1.7000e-003	0.1972	1.1200e-003	0.1983	0.0523	1.0300e-003	0.0533		172.9372	172.9372	5.5800e-003	5.1000e-003	174.5979
<b>Total</b>	<b>0.0957</b>	<b>0.5480</b>	<b>0.7551</b>	<b>3.6200e-003</b>	<b>0.2581</b>	<b>6.3400e-003</b>	<b>0.2644</b>	<b>0.0698</b>	<b>6.0200e-003</b>	<b>0.0759</b>		<b>379.8864</b>	<b>379.8864</b>	<b>0.0118</b>	<b>0.0352</b>	<b>390.6633</b>

Hollandia Dairy Phase 2 - San Diego County, Winter

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

**3.5 Building Construction - 2022**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1397	0.6052	7.7261	0.0114		0.0186	0.0186		0.0186	0.0186	0.0000	1,103.939 3	1,103.939 3	0.3570		1,112.865 2
<b>Total</b>	<b>0.1397</b>	<b>0.6052</b>	<b>7.7261</b>	<b>0.0114</b>		<b>0.0186</b>	<b>0.0186</b>		<b>0.0186</b>	<b>0.0186</b>	<b>0.0000</b>	<b>1,103.939 3</b>	<b>1,103.939 3</b>	<b>0.3570</b>		<b>1,112.865 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0199	0.4967	0.1651	1.9200e-003	0.0610	5.2200e-003	0.0662	0.0176	4.9900e-003	0.0225		206.9492	206.9492	6.2600e-003	0.0301	216.0655
Worker	0.0758	0.0513	0.5900	1.7000e-003	0.1972	1.1200e-003	0.1983	0.0523	1.0300e-003	0.0533		172.9372	172.9372	5.5800e-003	5.1000e-003	174.5979
<b>Total</b>	<b>0.0957</b>	<b>0.5480</b>	<b>0.7551</b>	<b>3.6200e-003</b>	<b>0.2581</b>	<b>6.3400e-003</b>	<b>0.2644</b>	<b>0.0698</b>	<b>6.0200e-003</b>	<b>0.0759</b>		<b>379.8864</b>	<b>379.8864</b>	<b>0.0118</b>	<b>0.0352</b>	<b>390.6633</b>

Hollandia Dairy Phase 2 - San Diego County, Winter

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

**3.5 Building Construction - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6322	6.4186	7.0970	0.0114		0.3203	0.3203		0.2946	0.2946		1,104.6089	1,104.6089	0.3573		1,113.5402
<b>Total</b>	<b>0.6322</b>	<b>6.4186</b>	<b>7.0970</b>	<b>0.0114</b>		<b>0.3203</b>	<b>0.3203</b>		<b>0.2946</b>	<b>0.2946</b>		<b>1,104.6089</b>	<b>1,104.6089</b>	<b>0.3573</b>		<b>1,113.5402</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	0.0105	0.4020	0.1432	1.8500e-003	0.0610	2.3600e-003	0.0633	0.0176	2.2600e-003	0.0198		199.2251	199.2251	6.0000e-003	0.0289	207.9792
Worker	0.0712	0.0458	0.5488	1.6500e-003	0.1972	1.0600e-003	0.1982	0.0523	9.8000e-004	0.0533		168.4849	168.4849	5.0800e-003	4.7500e-003	170.0266
<b>Total</b>	<b>0.0816</b>	<b>0.4479</b>	<b>0.6920</b>	<b>3.5000e-003</b>	<b>0.2581</b>	<b>3.4200e-003</b>	<b>0.2615</b>	<b>0.0698</b>	<b>3.2400e-003</b>	<b>0.0731</b>		<b>367.7100</b>	<b>367.7100</b>	<b>0.0111</b>	<b>0.0336</b>	<b>378.0058</b>

Hollandia Dairy Phase 2 - San Diego County, Winter

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

**3.5 Building Construction - 2023**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1397	0.6052	7.7261	0.0114		0.0186	0.0186		0.0186	0.0186	0.0000	1,104.6089	1,104.6089	0.3573		1,113.5402
<b>Total</b>	<b>0.1397</b>	<b>0.6052</b>	<b>7.7261</b>	<b>0.0114</b>		<b>0.0186</b>	<b>0.0186</b>		<b>0.0186</b>	<b>0.0186</b>	<b>0.0000</b>	<b>1,104.6089</b>	<b>1,104.6089</b>	<b>0.3573</b>		<b>1,113.5402</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	0.0105	0.4020	0.1432	1.8500e-003	0.0610	2.3600e-003	0.0633	0.0176	2.2600e-003	0.0198		199.2251	199.2251	6.0000e-003	0.0289	207.9792
Worker	0.0712	0.0458	0.5488	1.6500e-003	0.1972	1.0600e-003	0.1982	0.0523	9.8000e-004	0.0533		168.4849	168.4849	5.0800e-003	4.7500e-003	170.0266
<b>Total</b>	<b>0.0816</b>	<b>0.4479</b>	<b>0.6920</b>	<b>3.5000e-003</b>	<b>0.2581</b>	<b>3.4200e-003</b>	<b>0.2615</b>	<b>0.0698</b>	<b>3.2400e-003</b>	<b>0.0731</b>		<b>367.7100</b>	<b>367.7100</b>	<b>0.0111</b>	<b>0.0336</b>	<b>378.0058</b>

Hollandia Dairy Phase 2 - San Diego County, Winter

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

**3.6 Paving - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6112	5.5046	7.0209	0.0113		0.2643	0.2643		0.2466	0.2466		1,036.0878	1,036.0878	0.3018		1,043.6331
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.6112</b>	<b>5.5046</b>	<b>7.0209</b>	<b>0.0113</b>		<b>0.2643</b>	<b>0.2643</b>		<b>0.2466</b>	<b>0.2466</b>		<b>1,036.0878</b>	<b>1,036.0878</b>	<b>0.3018</b>		<b>1,043.6331</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	0.0534	0.0344	0.4116	1.2300e-003	0.1479	8.0000e-004	0.1487	0.0392	7.3000e-004	0.0400		126.3637	126.3637	3.8100e-003	3.5600e-003	127.5200
<b>Total</b>	<b>0.0534</b>	<b>0.0344</b>	<b>0.4116</b>	<b>1.2300e-003</b>	<b>0.1479</b>	<b>8.0000e-004</b>	<b>0.1487</b>	<b>0.0392</b>	<b>7.3000e-004</b>	<b>0.0400</b>		<b>126.3637</b>	<b>126.3637</b>	<b>3.8100e-003</b>	<b>3.5600e-003</b>	<b>127.5200</b>

Hollandia Dairy Phase 2 - San Diego County, Winter

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

**3.6 Paving - 2023**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1119	0.4851	6.9028	0.0113		0.0149	0.0149		0.0149	0.0149	0.0000	1,036.0878	1,036.0878	0.3018		1,043.6331
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.1119</b>	<b>0.4851</b>	<b>6.9028</b>	<b>0.0113</b>		<b>0.0149</b>	<b>0.0149</b>		<b>0.0149</b>	<b>0.0149</b>	<b>0.0000</b>	<b>1,036.0878</b>	<b>1,036.0878</b>	<b>0.3018</b>		<b>1,043.6331</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	0.0534	0.0344	0.4116	1.2300e-003	0.1479	8.0000e-004	0.1487	0.0392	7.3000e-004	0.0400		126.3637	126.3637	3.8100e-003	3.5600e-003	127.5200
<b>Total</b>	<b>0.0534</b>	<b>0.0344</b>	<b>0.4116</b>	<b>1.2300e-003</b>	<b>0.1479</b>	<b>8.0000e-004</b>	<b>0.1487</b>	<b>0.0392</b>	<b>7.3000e-004</b>	<b>0.0400</b>		<b>126.3637</b>	<b>126.3637</b>	<b>3.8100e-003</b>	<b>3.5600e-003</b>	<b>127.5200</b>

Hollandia Dairy Phase 2 - San Diego County, Winter

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

**3.7 Architectural Coating - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	64.9085					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690
<b>Total</b>	<b>65.1002</b>	<b>1.3030</b>	<b>1.8111</b>	<b>2.9700e-003</b>		<b>0.0708</b>	<b>0.0708</b>		<b>0.0708</b>	<b>0.0708</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0168</b>		<b>281.8690</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	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	0.0148	9.5500e-003	0.1143	3.4000e-004	0.0411	2.2000e-004	0.0413	0.0109	2.0000e-004	0.0111		35.1010	35.1010	1.0600e-003	9.9000e-004	35.4222
<b>Total</b>	<b>0.0148</b>	<b>9.5500e-003</b>	<b>0.1143</b>	<b>3.4000e-004</b>	<b>0.0411</b>	<b>2.2000e-004</b>	<b>0.0413</b>	<b>0.0109</b>	<b>2.0000e-004</b>	<b>0.0111</b>		<b>35.1010</b>	<b>35.1010</b>	<b>1.0600e-003</b>	<b>9.9000e-004</b>	<b>35.4222</b>

Hollandia Dairy Phase 2 - San Diego County, Winter

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

**3.7 Architectural Coating - 2023**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	64.9085					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0297	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0168		281.8690
<b>Total</b>	<b>64.9383</b>	<b>0.1288</b>	<b>1.8324</b>	<b>2.9700e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0168</b>		<b>281.8690</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	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	0.0148	9.5500e-003	0.1143	3.4000e-004	0.0411	2.2000e-004	0.0413	0.0109	2.0000e-004	0.0111		35.1010	35.1010	1.0600e-003	9.9000e-004	35.4222
<b>Total</b>	<b>0.0148</b>	<b>9.5500e-003</b>	<b>0.1143</b>	<b>3.4000e-004</b>	<b>0.0411</b>	<b>2.2000e-004</b>	<b>0.0413</b>	<b>0.0109</b>	<b>2.0000e-004</b>	<b>0.0111</b>		<b>35.1010</b>	<b>35.1010</b>	<b>1.0600e-003</b>	<b>9.9000e-004</b>	<b>35.4222</b>

Hollandia Dairy Phase 2 - San Diego County, Winter

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

**4.0 Operational Detail - Mobile**

**4.1 Mitigation Measures Mobile**

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

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00		
User Defined Industrial	0.00	0.00	0.00		
<b>Total</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>		

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Unrefrigerated Warehouse-No	9.50	7.30	7.30	59.00	0.00	41.00	92	5	3
User Defined Industrial	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

**4.4 Fleet Mix**

Hollandia Dairy Phase 2 - San Diego County, Winter

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

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Unrefrigerated Warehouse-No Rail	0.553514	0.062792	0.181046	0.120736	0.024419	0.006214	0.008493	0.006184	0.000715	0.000556	0.029185	0.000982	0.005164
User Defined Industrial	0.553514	0.062792	0.181046	0.120736	0.024419	0.006214	0.008493	0.006184	0.000715	0.000556	0.029185	0.000982	0.005164

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Category	ROG	NOX	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio-CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
NaturalGas Mitigated	1.3700e-003	0.0124	0.0104	7.0000e-005	9.4000e-004	9.4000e-004	9.4000e-004	9.4000e-004	9.4000e-004	9.4000e-004	14.8955	14.8955	14.8955	2.9000e-004	2.7000e-004	14.9840
NaturalGas Unmitigated	1.3700e-003	0.0124	0.0104	7.0000e-005	9.4000e-004	9.4000e-004	9.4000e-004	9.4000e-004	9.4000e-004	9.4000e-004	14.8955	14.8955	14.8955	2.9000e-004	2.7000e-004	14.9840
lb/day																

Hollandia Dairy Phase 2 - San Diego County, Winter

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

5.2 Energy by Land Use - Natural Gas

Unmitigated

Natural Gas Use	CO <sub>2</sub> e	lb/day											KBTU/yr	Land Use		
		PM2.5 Total	Exhaust PM2.5	Fugitive PM2.5	PM10 Total	Exhaust PM10	Fugitive PM10	SO <sub>2</sub>	CO	NO <sub>x</sub>	ROG	CO				
Unrefrigerated Warehouse-No Rail	14.9840	9.4000e-004	9.4000e-004	9.4000e-004	9.4000e-004	9.4000e-004	9.4000e-004	9.4000e-004	9.4000e-004	9.4000e-004	9.4000e-004	9.4000e-004	9.4000e-004	9.4000e-004	14.9840	Warehouse-No Rail
Unrefrigerated Warehouse-No Rail	14.9840	9.4000e-004	9.4000e-004	9.4000e-004	9.4000e-004	9.4000e-004	9.4000e-004	9.4000e-004	9.4000e-004	9.4000e-004	9.4000e-004	9.4000e-004	9.4000e-004	9.4000e-004	14.9840	Warehouse-No Rail
User Defined Industrial	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	User Defined Industrial
Total	14.9840	9.4000e-004	9.4000e-004	9.4000e-004	9.4000e-004	9.4000e-004	9.4000e-004	9.4000e-004	9.4000e-004	9.4000e-004	9.4000e-004	9.4000e-004	9.4000e-004	9.4000e-004	14.9840	Total

Mitigated

Natural Gas Use	CO <sub>2</sub> e	lb/day											KBTU/yr	Land Use		
		PM2.5 Total	Exhaust PM2.5	Fugitive PM2.5	PM10 Total	Exhaust PM10	Fugitive PM10	SO <sub>2</sub>	CO	NO <sub>x</sub>	ROG	CO				
Unrefrigerated Warehouse-No Rail	14.9840	9.4000e-004	9.4000e-004	9.4000e-004	9.4000e-004	9.4000e-004	9.4000e-004	9.4000e-004	9.4000e-004	9.4000e-004	9.4000e-004	9.4000e-004	9.4000e-004	9.4000e-004	14.9840	Warehouse-No Rail
Unrefrigerated Warehouse-No Rail	14.9840	9.4000e-004	9.4000e-004	9.4000e-004	9.4000e-004	9.4000e-004	9.4000e-004	9.4000e-004	9.4000e-004	9.4000e-004	9.4000e-004	9.4000e-004	9.4000e-004	9.4000e-004	14.9840	Warehouse-No Rail
User Defined Industrial	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	User Defined Industrial
Total	14.9840	9.4000e-004	9.4000e-004	9.4000e-004	9.4000e-004	9.4000e-004	9.4000e-004	9.4000e-004	9.4000e-004	9.4000e-004	9.4000e-004	9.4000e-004	9.4000e-004	9.4000e-004	14.9840	Total

Hollandia Dairy Phase 2 - San Diego County, Winter

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

**6.1 Mitigation Measures Area**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.3415	5.0000e-005	5.7200e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0123	0.0123	3.0000e-005		0.0131
Unmitigated	1.3415	5.0000e-005	5.7200e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0123	0.0123	3.0000e-005		0.0131

**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	0.1423					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.1987					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.3000e-004	5.0000e-005	5.7200e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0123	0.0123	3.0000e-005		0.0131
<b>Total</b>	<b>1.3415</b>	<b>5.0000e-005</b>	<b>5.7200e-003</b>	<b>0.0000</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>		<b>0.0123</b>	<b>0.0123</b>	<b>3.0000e-005</b>		<b>0.0131</b>

Hollandia Dairy Phase 2 - San Diego County, Winter

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

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.1423					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.1987					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.3000e-004	5.0000e-005	5.7200e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0123	0.0123	3.0000e-005		0.0131
<b>Total</b>	<b>1.3415</b>	<b>5.0000e-005</b>	<b>5.7200e-003</b>	<b>0.0000</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>		<b>0.0123</b>	<b>0.0123</b>	<b>3.0000e-005</b>		<b>0.0131</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

Hollandia Dairy Phase 2 - San Diego County, Winter

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

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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

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**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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**11.0 Vegetation**

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Hollandia Dairy Phase 2 - San Diego County, Annual

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

**Hollandia Dairy Phase 2  
San Diego County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	28.00	1000sqft	0.64	28,008.00	0
User Defined Industrial	28.00	User Defined Unit	0.00	28,008.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.6	<b>Precipitation Freq (Days)</b>	40
<b>Climate Zone</b>	13			<b>Operational Year</b>	2023
<b>Utility Company</b>	San Diego Gas & Electric				
<b>CO2 Intensity (lb/MWhr)</b>	539.98	<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 - Phase 2 28ksf Usable space, 28ksf unusable space added for construction purposes but operations would be zero

Construction Phase - Phase 2 Construction

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Trips and VMT -

Demolition -

Grading -

Architectural Coating - Rule 67 Paints



Hollandia Dairy Phase 2 - San Diego County, Annual

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

tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	5.00	8.00
tblLandUse	LandUseSquareFeet	28,000.00	28,008.00
tblLandUse	LandUseSquareFeet	0.00	28,008.00
tblVehicleTrips	ST_TR	1.74	0.00
tblVehicleTrips	SU_TR	1.74	0.00
tblVehicleTrips	WD_TR	1.74	0.00

**2.0 Emissions Summary**

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Hollandia Dairy Phase 2 - San Diego County, Annual

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

**2.1 Overall Construction**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2022	8.4300e-003	0.0841	0.0825	1.7000e-004	0.0156	3.9700e-003	0.0196	4.4100e-003	3.7200e-003	8.1200e-003	0.0000	15.2294	15.2294	2.9900e-003	5.3000e-004	15.4613
2023	0.2943	0.3314	0.3806	7.2000e-004	0.0120	0.0157	0.0277	3.2500e-003	0.0145	0.0177	0.0000	64.6164	64.6164	0.0160	1.4000e-003	65.4311
<b>Maximum</b>	<b>0.2943</b>	<b>0.3314</b>	<b>0.3806</b>	<b>7.2000e-004</b>	<b>0.0156</b>	<b>0.0157</b>	<b>0.0277</b>	<b>4.4100e-003</b>	<b>0.0145</b>	<b>0.0177</b>	<b>0.0000</b>	<b>64.6164</b>	<b>64.6164</b>	<b>0.0160</b>	<b>1.4000e-003</b>	<b>65.4311</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					
2022	2.2000e-003	0.0152	0.0879	1.7000e-004	0.0156	2.8000e-004	0.0159	4.4100e-003	2.8000e-004	4.6900e-003	0.0000	15.2294	15.2294	2.9900e-003	5.3000e-004	15.4613
2023	0.2700	0.0496	0.4090	7.2000e-004	0.0120	1.0600e-003	0.0131	3.2500e-003	1.0500e-003	4.3000e-003	0.0000	64.6163	64.6163	0.0160	1.4000e-003	65.4311
<b>Maximum</b>	<b>0.2700</b>	<b>0.0496</b>	<b>0.4090</b>	<b>7.2000e-004</b>	<b>0.0156</b>	<b>1.0600e-003</b>	<b>0.0159</b>	<b>4.4100e-003</b>	<b>1.0500e-003</b>	<b>4.6900e-003</b>	<b>0.0000</b>	<b>64.6163</b>	<b>64.6163</b>	<b>0.0160</b>	<b>1.4000e-003</b>	<b>65.4311</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	10.09	84.39	-7.31	0.00	0.00	93.18	38.71	0.00	92.68	65.20	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)
3	11-1-2022	1-31-2023	0.1774	0.0315
4	2-1-2023	4-30-2023	0.3356	0.1332
5	5-1-2023	7-31-2023	0.2269	0.1912
		Highest	0.3356	0.1912

**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	0.2448	0.0000	5.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0000e-003	1.0000e-003	0.0000	0.0000	1.0700e-003
Energy	2.5000e-004	2.2700e-003	1.9000e-003	1.0000e-005		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004	0.0000	26.8192	26.8192	1.5400e-003	2.3000e-004	26.9248
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	5.3427	0.0000	5.3427	0.3158	0.0000	13.2364
Water						0.0000	0.0000		0.0000	0.0000	2.0542	20.6504	22.7046	0.2123	5.1300e-003	29.5410
<b>Total</b>	<b>0.2450</b>	<b>2.2700e-003</b>	<b>2.4100e-003</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>1.7000e-004</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>1.7000e-004</b>	<b>1.7000e-004</b>	<b>7.3969</b>	<b>47.4706</b>	<b>54.8675</b>	<b>0.5295</b>	<b>5.3600e-003</b>	<b>69.7033</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	0.2448	0.0000	5.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0000e-003	1.0000e-003	0.0000	0.0000	1.0700e-003
Energy	2.5000e-004	2.2700e-003	1.9000e-003	1.0000e-005		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004	0.0000	26.8192	26.8192	1.5400e-003	2.3000e-004	26.9248
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	5.3427	0.0000	5.3427	0.3158	0.0000	13.2364
Water						0.0000	0.0000		0.0000	0.0000	2.0542	20.6504	22.7046	0.2123	5.1300e-003	29.5410
<b>Total</b>	<b>0.2450</b>	<b>2.2700e-003</b>	<b>2.4100e-003</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>1.7000e-004</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>1.7000e-004</b>	<b>1.7000e-004</b>	<b>7.3969</b>	<b>47.4706</b>	<b>54.8675</b>	<b>0.5295</b>	<b>5.3600e-003</b>	<b>69.7033</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	12/1/2022	12/14/2022	5	10	
2	Site Preparation	Site Preparation	12/15/2022	12/15/2022	5	1	
3	Grading	Grading	12/16/2022	12/19/2022	5	2	

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4	Building Construction	Building Construction	12/20/2022	5/8/2023	5	100
5	Architectural Coating	Architectural Coating	4/27/2023	5/8/2023	5	8
6	Paving	Paving	5/9/2023	5/15/2023	5	5

**Acres of Grading (Site Preparation Phase): 0.5**

**Acres of Grading (Grading Phase): 0.75**

**Acres of Paving: 0**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 84,024; Non-Residential Outdoor: 28,008; 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	1.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Rubber Tired Dozers	1	6.00	247	0.40
Grading	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Building Construction	Cranes	1	4.00	231	0.29
Building Construction	Forklifts	2	6.00	89	0.20
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Paving	Pavers	1	7.00	130	0.42
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

**Trips and VMT**

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

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	4	10.00	0.00	75.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	2	5.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	2	5.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	24.00	9.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	5.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Use Cleaner Engines for Construction Equipment

**3.2 Demolition - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					8.2200e-003	0.0000	8.2200e-003	1.2500e-003	0.0000	1.2500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.5500e-003	0.0321	0.0374	6.0000e-005		1.6900e-003	1.6900e-003		1.6100e-003	1.6100e-003	0.0000	5.2068	5.2068	9.6000e-004	0.0000	5.2308
<b>Total</b>	<b>3.5500e-003</b>	<b>0.0321</b>	<b>0.0374</b>	<b>6.0000e-005</b>	<b>8.2200e-003</b>	<b>1.6900e-003</b>	<b>9.9100e-003</b>	<b>1.2500e-003</b>	<b>1.6100e-003</b>	<b>2.8600e-003</b>	<b>0.0000</b>	<b>5.2068</b>	<b>5.2068</b>	<b>9.6000e-004</b>	<b>0.0000</b>	<b>5.2308</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 - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.7000e-004	6.3100e-003	1.4900e-003	2.0000e-005	6.4000e-004	6.0000e-005	7.0000e-004	1.8000e-004	6.0000e-005	2.3000e-004	0.0000	2.3506	2.3506	1.1000e-004	3.7000e-004	2.4646
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4000e-004	1.0000e-004	1.2300e-003	0.0000	4.0000e-004	0.0000	4.0000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.3298	0.3298	1.0000e-005	1.0000e-005	0.3328
<b>Total</b>	<b>3.1000e-004</b>	<b>6.4100e-003</b>	<b>2.7200e-003</b>	<b>2.0000e-005</b>	<b>1.0400e-003</b>	<b>6.0000e-005</b>	<b>1.1000e-003</b>	<b>2.9000e-004</b>	<b>6.0000e-005</b>	<b>3.4000e-004</b>	<b>0.0000</b>	<b>2.6803</b>	<b>2.6803</b>	<b>1.2000e-004</b>	<b>3.8000e-004</b>	<b>2.7975</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					8.2200e-003	0.0000	8.2200e-003	1.2500e-003	0.0000	1.2500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.6000e-004	2.8700e-003	0.0393	6.0000e-005		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005	0.0000	5.2068	5.2068	9.6000e-004	0.0000	5.2308
<b>Total</b>	<b>6.6000e-004</b>	<b>2.8700e-003</b>	<b>0.0393</b>	<b>6.0000e-005</b>	<b>8.2200e-003</b>	<b>9.0000e-005</b>	<b>8.3100e-003</b>	<b>1.2500e-003</b>	<b>9.0000e-005</b>	<b>1.3400e-003</b>	<b>0.0000</b>	<b>5.2068</b>	<b>5.2068</b>	<b>9.6000e-004</b>	<b>0.0000</b>	<b>5.2308</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 - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.7000e-004	6.3100e-003	1.4900e-003	2.0000e-005	6.4000e-004	6.0000e-005	7.0000e-004	1.8000e-004	6.0000e-005	2.3000e-004	0.0000	2.3506	2.3506	1.1000e-004	3.7000e-004	2.4646
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4000e-004	1.0000e-004	1.2300e-003	0.0000	4.0000e-004	0.0000	4.0000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.3298	0.3298	1.0000e-005	1.0000e-005	0.3328
<b>Total</b>	<b>3.1000e-004</b>	<b>6.4100e-003</b>	<b>2.7200e-003</b>	<b>2.0000e-005</b>	<b>1.0400e-003</b>	<b>6.0000e-005</b>	<b>1.1000e-003</b>	<b>2.9000e-004</b>	<b>6.0000e-005</b>	<b>3.4000e-004</b>	<b>0.0000</b>	<b>2.6803</b>	<b>2.6803</b>	<b>1.2000e-004</b>	<b>3.8000e-004</b>	<b>2.7975</b>

**3.3 Site Preparation - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.7000e-004	0.0000	2.7000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.9000e-004	3.4700e-003	1.9800e-003	0.0000		1.3000e-004	1.3000e-004		1.2000e-004	1.2000e-004	0.0000	0.4275	0.4275	1.4000e-004	0.0000	0.4310
<b>Total</b>	<b>2.9000e-004</b>	<b>3.4700e-003</b>	<b>1.9800e-003</b>	<b>0.0000</b>	<b>2.7000e-004</b>	<b>1.3000e-004</b>	<b>4.0000e-004</b>	<b>3.0000e-005</b>	<b>1.2000e-004</b>	<b>1.5000e-004</b>	<b>0.0000</b>	<b>0.4275</b>	<b>0.4275</b>	<b>1.4000e-004</b>	<b>0.0000</b>	<b>0.4310</b>

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**3.3 Site Preparation - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0000e-005	1.0000e-005	6.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0165	0.0165	0.0000	0.0000	0.0166
<b>Total</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.0165</b>	<b>0.0165</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0166</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-004	0.0000	2.7000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.0000e-005	2.6000e-004	2.6600e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	0.4275	0.4275	1.4000e-004	0.0000	0.4310
<b>Total</b>	<b>6.0000e-005</b>	<b>2.6000e-004</b>	<b>2.6600e-003</b>	<b>0.0000</b>	<b>2.7000e-004</b>	<b>1.0000e-005</b>	<b>2.8000e-004</b>	<b>3.0000e-005</b>	<b>1.0000e-005</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>0.4275</b>	<b>0.4275</b>	<b>1.4000e-004</b>	<b>0.0000</b>	<b>0.4310</b>

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**3.3 Site Preparation - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0000e-005	1.0000e-005	6.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0165	0.0165	0.0000	0.0000	0.0166
<b>Total</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.0165</b>	<b>0.0165</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0166</b>

**3.4 Grading - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					4.9100e-003	0.0000	4.9100e-003	2.5300e-003	0.0000	2.5300e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.7000e-004	8.0600e-003	4.6400e-003	1.0000e-005		3.9000e-004	3.9000e-004		3.6000e-004	3.6000e-004	0.0000	0.8018	0.8018	2.6000e-004	0.0000	0.8083
<b>Total</b>	<b>7.7000e-004</b>	<b>8.0600e-003</b>	<b>4.6400e-003</b>	<b>1.0000e-005</b>	<b>4.9100e-003</b>	<b>3.9000e-004</b>	<b>5.3000e-003</b>	<b>2.5300e-003</b>	<b>3.6000e-004</b>	<b>2.8900e-003</b>	<b>0.0000</b>	<b>0.8018</b>	<b>0.8018</b>	<b>2.6000e-004</b>	<b>0.0000</b>	<b>0.8083</b>

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

**3.4 Grading - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0000e-005	1.0000e-005	1.2000e-004	0.0000	4.0000e-005	0.0000	4.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0330	0.0330	0.0000	0.0000	0.0333
<b>Total</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>4.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.0330</b>	<b>0.0330</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0333</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					4.9100e-003	0.0000	4.9100e-003	2.5300e-003	0.0000	2.5300e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.1000e-004	4.8000e-004	4.9200e-003	1.0000e-005		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	0.8018	0.8018	2.6000e-004	0.0000	0.8083
<b>Total</b>	<b>1.1000e-004</b>	<b>4.8000e-004</b>	<b>4.9200e-003</b>	<b>1.0000e-005</b>	<b>4.9100e-003</b>	<b>1.0000e-005</b>	<b>4.9200e-003</b>	<b>2.5300e-003</b>	<b>1.0000e-005</b>	<b>2.5400e-003</b>	<b>0.0000</b>	<b>0.8018</b>	<b>0.8018</b>	<b>2.6000e-004</b>	<b>0.0000</b>	<b>0.8083</b>

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

**3.4 Grading - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0000e-005	1.0000e-005	1.2000e-004	0.0000	4.0000e-005	0.0000	4.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0330	0.0330	0.0000	0.0000	0.0333
<b>Total</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>4.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.0330</b>	<b>0.0330</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0333</b>

**3.5 Building Construction - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	3.0900e-003	0.0316	0.0322	5.0000e-005		1.6700e-003	1.6700e-003		1.5400e-003	1.5400e-003	0.0000	4.5067	4.5067	1.4600e-003	0.0000	4.5431
<b>Total</b>	<b>3.0900e-003</b>	<b>0.0316</b>	<b>0.0322</b>	<b>5.0000e-005</b>		<b>1.6700e-003</b>	<b>1.6700e-003</b>		<b>1.5400e-003</b>	<b>1.5400e-003</b>	<b>0.0000</b>	<b>4.5067</b>	<b>4.5067</b>	<b>1.4600e-003</b>	<b>0.0000</b>	<b>4.5431</b>

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

**3.5 Building Construction - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.0000e-005	2.2300e-003	7.3000e-004	1.0000e-005	2.7000e-004	2.0000e-005	2.9000e-004	8.0000e-005	2.0000e-005	1.0000e-004	0.0000	0.8446	0.8446	3.0000e-005	1.2000e-004	0.8818
Worker	3.1000e-004	2.3000e-004	2.6500e-003	1.0000e-005	8.7000e-004	1.0000e-005	8.7000e-004	2.3000e-004	0.0000	2.3000e-004	0.0000	0.7123	0.7123	2.0000e-005	2.0000e-005	0.7189
<b>Total</b>	<b>4.0000e-004</b>	<b>2.4600e-003</b>	<b>3.3800e-003</b>	<b>2.0000e-005</b>	<b>1.1400e-003</b>	<b>3.0000e-005</b>	<b>1.1600e-003</b>	<b>3.1000e-004</b>	<b>2.0000e-005</b>	<b>3.3000e-004</b>	<b>0.0000</b>	<b>1.5568</b>	<b>1.5568</b>	<b>5.0000e-005</b>	<b>1.4000e-004</b>	<b>1.6007</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	6.3000e-004	2.7200e-003	0.0348	5.0000e-005		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	4.5066	4.5066	1.4600e-003	0.0000	4.5431
<b>Total</b>	<b>6.3000e-004</b>	<b>2.7200e-003</b>	<b>0.0348</b>	<b>5.0000e-005</b>		<b>8.0000e-005</b>	<b>8.0000e-005</b>		<b>8.0000e-005</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>4.5066</b>	<b>4.5066</b>	<b>1.4600e-003</b>	<b>0.0000</b>	<b>4.5431</b>

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**3.5 Building Construction - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.0000e-005	2.2300e-003	7.3000e-004	1.0000e-005	2.7000e-004	2.0000e-005	2.9000e-004	8.0000e-005	2.0000e-005	1.0000e-004	0.0000	0.8446	0.8446	3.0000e-005	1.2000e-004	0.8818
Worker	3.1000e-004	2.3000e-004	2.6500e-003	1.0000e-005	8.7000e-004	1.0000e-005	8.7000e-004	2.3000e-004	0.0000	2.3000e-004	0.0000	0.7123	0.7123	2.0000e-005	2.0000e-005	0.7189
<b>Total</b>	<b>4.0000e-004</b>	<b>2.4600e-003</b>	<b>3.3800e-003</b>	<b>2.0000e-005</b>	<b>1.1400e-003</b>	<b>3.0000e-005</b>	<b>1.1600e-003</b>	<b>3.1000e-004</b>	<b>2.0000e-005</b>	<b>3.3000e-004</b>	<b>0.0000</b>	<b>1.5568</b>	<b>1.5568</b>	<b>5.0000e-005</b>	<b>1.4000e-004</b>	<b>1.6007</b>

**3.5 Building Construction - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0288	0.2921	0.3229	5.2000e-004		0.0146	0.0146		0.0134	0.0134	0.0000	45.5948	45.5948	0.0148	0.0000	45.9635
<b>Total</b>	<b>0.0288</b>	<b>0.2921</b>	<b>0.3229</b>	<b>5.2000e-004</b>		<b>0.0146</b>	<b>0.0146</b>		<b>0.0134</b>	<b>0.0134</b>	<b>0.0000</b>	<b>45.5948</b>	<b>45.5948</b>	<b>0.0148</b>	<b>0.0000</b>	<b>45.9635</b>

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**3.5 Building Construction - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.8000e-004	0.0182	6.4100e-003	8.0000e-005	2.7200e-003	1.1000e-004	2.8300e-003	7.9000e-004	1.0000e-004	8.9000e-004	0.0000	8.2166	8.2166	2.5000e-004	1.1900e-003	8.5776
Worker	2.9500e-003	2.0400e-003	0.0250	8.0000e-005	8.7600e-003	5.0000e-005	8.8100e-003	2.3300e-003	4.0000e-005	2.3700e-003	0.0000	7.0162	7.0162	2.1000e-004	1.9000e-004	7.0789
<b>Total</b>	<b>3.4300e-003</b>	<b>0.0202</b>	<b>0.0314</b>	<b>1.6000e-004</b>	<b>0.0115</b>	<b>1.6000e-004</b>	<b>0.0116</b>	<b>3.1200e-003</b>	<b>1.4000e-004</b>	<b>3.2600e-003</b>	<b>0.0000</b>	<b>15.2328</b>	<b>15.2328</b>	<b>4.6000e-004</b>	<b>1.3800e-003</b>	<b>15.6565</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	6.3500e-003	0.0275	0.3515	5.2000e-004		8.5000e-004	8.5000e-004		8.5000e-004	8.5000e-004	0.0000	45.5948	45.5948	0.0148	0.0000	45.9634
<b>Total</b>	<b>6.3500e-003</b>	<b>0.0275</b>	<b>0.3515</b>	<b>5.2000e-004</b>		<b>8.5000e-004</b>	<b>8.5000e-004</b>		<b>8.5000e-004</b>	<b>8.5000e-004</b>	<b>0.0000</b>	<b>45.5948</b>	<b>45.5948</b>	<b>0.0148</b>	<b>0.0000</b>	<b>45.9634</b>

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

**3.5 Building Construction - 2023**

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	4.8000e-004	0.0182	6.4100e-003	8.0000e-005	2.7200e-003	1.1000e-004	2.8300e-003	7.9000e-004	1.0000e-004	8.9000e-004	0.0000	8.2166	8.2166	2.5000e-004	1.1900e-003	8.5776
Worker	2.9500e-003	2.0400e-003	0.0250	8.0000e-005	8.7600e-003	5.0000e-005	8.8100e-003	2.3300e-003	4.0000e-005	2.3700e-003	0.0000	7.0162	7.0162	2.1000e-004	1.9000e-004	7.0789
<b>Total</b>	<b>3.4300e-003</b>	<b>0.0202</b>	<b>0.0314</b>	<b>1.6000e-004</b>	<b>0.0115</b>	<b>1.6000e-004</b>	<b>0.0116</b>	<b>3.1200e-003</b>	<b>1.4000e-004</b>	<b>3.2600e-003</b>	<b>0.0000</b>	<b>15.2328</b>	<b>15.2328</b>	<b>4.6000e-004</b>	<b>1.3800e-003</b>	<b>15.6565</b>

**3.6 Architectural Coating - 2023**

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.2596					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.7000e-004	5.2100e-003	7.2400e-003	1.0000e-005		2.8000e-004	2.8000e-004		2.8000e-004	2.8000e-004	0.0000	1.0213	1.0213	6.0000e-005	0.0000	1.0228
<b>Total</b>	<b>0.2604</b>	<b>5.2100e-003</b>	<b>7.2400e-003</b>	<b>1.0000e-005</b>		<b>2.8000e-004</b>	<b>2.8000e-004</b>		<b>2.8000e-004</b>	<b>2.8000e-004</b>	<b>0.0000</b>	<b>1.0213</b>	<b>1.0213</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>1.0228</b>

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**3.6 Architectural Coating - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.0000e-005	4.0000e-005	4.6000e-004	0.0000	1.6000e-004	0.0000	1.6000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1285	0.1285	0.0000	0.0000	0.1297
<b>Total</b>	<b>5.0000e-005</b>	<b>4.0000e-005</b>	<b>4.6000e-004</b>	<b>0.0000</b>	<b>1.6000e-004</b>	<b>0.0000</b>	<b>1.6000e-004</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>0.1285</b>	<b>0.1285</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.1297</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	0.2596					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.2000e-004	5.2000e-004	7.3300e-003	1.0000e-005		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	1.0213	1.0213	6.0000e-005	0.0000	1.0228
<b>Total</b>	<b>0.2598</b>	<b>5.2000e-004</b>	<b>7.3300e-003</b>	<b>1.0000e-005</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>1.0213</b>	<b>1.0213</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>1.0228</b>

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**3.6 Architectural Coating - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.0000e-005	4.0000e-005	4.6000e-004	0.0000	1.6000e-004	0.0000	1.6000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1285	0.1285	0.0000	0.0000	0.1297
<b>Total</b>	<b>5.0000e-005</b>	<b>4.0000e-005</b>	<b>4.6000e-004</b>	<b>0.0000</b>	<b>1.6000e-004</b>	<b>0.0000</b>	<b>1.6000e-004</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>0.1285</b>	<b>0.1285</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.1297</b>

**3.7 Paving - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.5300e-003	0.0138	0.0176	3.0000e-005		6.6000e-004	6.6000e-004		6.2000e-004	6.2000e-004	0.0000	2.3498	2.3498	6.8000e-004	0.0000	2.3669
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>1.5300e-003</b>	<b>0.0138</b>	<b>0.0176</b>	<b>3.0000e-005</b>		<b>6.6000e-004</b>	<b>6.6000e-004</b>		<b>6.2000e-004</b>	<b>6.2000e-004</b>	<b>0.0000</b>	<b>2.3498</b>	<b>2.3498</b>	<b>6.8000e-004</b>	<b>0.0000</b>	<b>2.3669</b>

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

**3.7 Paving - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2000e-004	8.0000e-005	1.0300e-003	0.0000	3.6000e-004	0.0000	3.6000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	0.2891	0.2891	1.0000e-005	1.0000e-005	0.2917
<b>Total</b>	<b>1.2000e-004</b>	<b>8.0000e-005</b>	<b>1.0300e-003</b>	<b>0.0000</b>	<b>3.6000e-004</b>	<b>0.0000</b>	<b>3.6000e-004</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>0.2891</b>	<b>0.2891</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.2917</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	2.8000e-004	1.2100e-003	0.0173	3.0000e-005		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	2.3498	2.3498	6.8000e-004	0.0000	2.3669
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>2.8000e-004</b>	<b>1.2100e-003</b>	<b>0.0173</b>	<b>3.0000e-005</b>		<b>4.0000e-005</b>	<b>4.0000e-005</b>		<b>4.0000e-005</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>2.3498</b>	<b>2.3498</b>	<b>6.8000e-004</b>	<b>0.0000</b>	<b>2.3669</b>

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

**3.7 Paving - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2000e-004	8.0000e-005	1.0300e-003	0.0000	3.6000e-004	0.0000	3.6000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	0.2891	0.2891	1.0000e-005	1.0000e-005	0.2917
<b>Total</b>	<b>1.2000e-004</b>	<b>8.0000e-005</b>	<b>1.0300e-003</b>	<b>0.0000</b>	<b>3.6000e-004</b>	<b>0.0000</b>	<b>3.6000e-004</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>0.2891</b>	<b>0.2891</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.2917</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

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

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

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00		
User Defined Industrial	0.00	0.00	0.00		
<b>Total</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>		

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Unrefrigerated Warehouse-No Rail	9.50	7.30	7.30	59.00	0.00	41.00	92	5	3
User Defined Industrial	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Unrefrigerated Warehouse-No Rail	0.553514	0.062792	0.181046	0.120736	0.024419	0.006214	0.008493	0.006184	0.000715	0.000556	0.029185	0.000982	0.005164
User Defined Industrial	0.553514	0.062792	0.181046	0.120736	0.024419	0.006214	0.008493	0.006184	0.000715	0.000556	0.029185	0.000982	0.005164

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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	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	24.3531	24.3531	1.4900e-003	1.8000e-004	24.4440
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	24.3531	24.3531	1.4900e-003	1.8000e-004	24.4440
NaturalGas Mitigated	2.5000e-004	2.2700e-003	1.9000e-003	1.0000e-005		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004	0.0000	2.4661	2.4661	5.0000e-005	5.0000e-005	2.4808
NaturalGas Unmitigated	2.5000e-004	2.2700e-003	1.9000e-003	1.0000e-005		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004	0.0000	2.4661	2.4661	5.0000e-005	5.0000e-005	2.4808

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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 - Natural Gas

Unmitigated

Natural Gas Use	KBTU/yr	tons/yr											MT/yr			
		CO <sub>2</sub> e	CH <sub>4</sub>	N <sub>2</sub> O	CO	SO <sub>2</sub>	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total		Bio-CO <sub>2</sub>	NBio-CO <sub>2</sub>	Total CO <sub>2</sub>
Unrefrigerated Warehouse-No Rail	46213.2	2.5000e-004	2.2700e-003	1.9000e-003	1.0000e-005	1.7000e-004	1.7000e-004	1.7000e-004	1.7000e-004	1.7000e-004	1.7000e-004	1.7000e-004	0.0000	2.4661	2.4661	2.4661
Rail																
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		2.5000e-004	2.2700e-003	1.9000e-003	1.0000e-005	1.7000e-004	1.7000e-004	1.7000e-004	1.7000e-004	1.7000e-004	1.7000e-004	1.7000e-004	0.0000	2.4661	2.4661	2.4808

Mitigated

Natural Gas Use	KBTU/yr	tons/yr											MT/yr			
		CO <sub>2</sub> e	CH <sub>4</sub>	N <sub>2</sub> O	CO	SO <sub>2</sub>	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total		Bio-CO <sub>2</sub>	NBio-CO <sub>2</sub>	Total CO <sub>2</sub>
Unrefrigerated Warehouse-No Rail	46213.2	2.5000e-004	2.2700e-003	1.9000e-003	1.0000e-005	1.7000e-004	1.7000e-004	1.7000e-004	1.7000e-004	1.7000e-004	1.7000e-004	1.7000e-004	0.0000	2.4661	2.4661	2.4808
Rail																
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		2.5000e-004	2.2700e-003	1.9000e-003	1.0000e-005	1.7000e-004	1.7000e-004	1.7000e-004	1.7000e-004	1.7000e-004	1.7000e-004	1.7000e-004	0.0000	2.4661	2.4661	2.4808

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

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Unrefrigerated Warehouse-No Rail	99428.4	24.3531	1.4900e-003	1.8000e-004	24.4440
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>24.3531</b>	<b>1.4900e-003</b>	<b>1.8000e-004</b>	<b>24.4440</b>

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Unrefrigerated Warehouse-No Rail	99428.4	24.3531	1.4900e-003	1.8000e-004	24.4440
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>24.3531</b>	<b>1.4900e-003</b>	<b>1.8000e-004</b>	<b>24.4440</b>

**6.0 Area Detail**

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

**6.1 Mitigation Measures Area**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.2448	0.0000	5.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0000e-003	1.0000e-003	0.0000	0.0000	1.0700e-003
Unmitigated	0.2448	0.0000	5.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0000e-003	1.0000e-003	0.0000	0.0000	1.0700e-003

**6.2 Area by SubCategory**

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0260					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2188					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	5.0000e-005	0.0000	5.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0000e-003	1.0000e-003	0.0000	0.0000	1.0700e-003
<b>Total</b>	<b>0.2448</b>	<b>0.0000</b>	<b>5.1000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.0000e-003</b>	<b>1.0000e-003</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.0700e-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	tons/yr										MT/yr					
Architectural Coating	0.0260					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2188					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	5.0000e-005	0.0000	5.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0000e-003	1.0000e-003	0.0000	0.0000	1.0700e-003
<b>Total</b>	<b>0.2448</b>	<b>0.0000</b>	<b>5.1000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.0000e-003</b>	<b>1.0000e-003</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.0700e-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**

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	22.7046	0.2123	5.1300e-003	29.5410
Unmitigated	22.7046	0.2123	5.1300e-003	29.5410

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Unrefrigerated Warehouse-No Rail	6.475 / 0	22.7046	0.2123	5.1300e-003	29.5410
User Defined Industrial	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>22.7046</b>	<b>0.2123</b>	<b>5.1300e-003</b>	<b>29.5410</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			
Unrefrigerated Warehouse-No Rail	6.475 / 0	22.7046	0.2123	5.1300e-003	29.5410
User Defined Industrial	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>22.7046</b>	<b>0.2123</b>	<b>5.1300e-003</b>	<b>29.5410</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	5.3427	0.3158	0.0000	13.2364
Unmitigated	5.3427	0.3158	0.0000	13.2364

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**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Unrefrigerated Warehouse-No Rail	26.32	5.3427	0.3158	0.0000	13.2364
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>5.3427</b>	<b>0.3158</b>	<b>0.0000</b>	<b>13.2364</b>

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Unrefrigerated Warehouse-No Rail	26.32	5.3427	0.3158	0.0000	13.2364
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>5.3427</b>	<b>0.3158</b>	<b>0.0000</b>	<b>13.2364</b>

**9.0 Operational Offroad**

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

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

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**Fire Pumps and Emergency Generators**

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

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

**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

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1 AERMOD PRIME - (DATED 19191)  
AERMODPrMSPx VERSION  
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Run Began on 8/27/2021 at 13:21:01

\*\* BREEZE AERMOD  
\*\* Trinity Consultants  
\*\* VERSION 9.0

CO STARTING  
CO TITLEONE Hollandia Dairy Renovation - Tier 4 PDF  
CO MODELOPT DEFAULT CONC NODRYDPLT NOWETDPLT  
CO RUNORNOT RUN  
CO AVERTIME ANNUAL  
CO POLLUTID PM10  
CO FINISHED

SO STARTING  
SO ELEVUNIT METERS  
SO LOCATION 2H5AJ000 AREAPOLY 486078.7 3667599.1 0  
\*\* SRDESCR Hollandia Renovation Project  
SO SRCPARAM 2H5AJ000 4.39E-09 3 11 1  
SO AREAVERT 2H5AJ000 486078.7 3667599.1 486076.4 3667406.4 486153.4 3667406.4 486154.6 3667423.4  
SO AREAVERT 2H5AJ000 486135.3 3667423.4 486135.9 3667442.1 486193.1 3667441.5 486193.7 3667564.7  
SO AREAVERT 2H5AJ000 486155.2 3667565.3 486155.2 3667596.8 486078.7 3667599.1  
SO SRCGROUP ALL  
SO FINISHED

RE STARTING  
RE ELEVUNIT METERS  
RE DISCCART 486551.2 3667350.3 0 0  
\*\* SENSITIV  
\*\* RCPDESCR R1  
RE DISCCART 486493.2 3667475.1 0 0  
\*\* SENSITIV  
\*\* RCPDESCR R2  
RE DISCCART 486041.2 3667658 0 0  
\*\* SENSITIV  
\*\* RCPDESCR R3  
RE FINISHED

ME STARTING  
ME SURFFILE "C:\USERS\RYAN~1.DES\ONEDRIVE\LDNONE~1\CITYOF~3\20-44H~1\AERMOD\ESCONDIDO-2012-V15181.SFC"  
\*\* SURFFILE "C:\USERS\RYAN~1.DES\ONEDRIVE\LDNONE~1\CITYOF~3\20-44H~1\AERMOD\ESCONDIDO-2012-V15181.SFC"  
ME PROFFILE "C:\USERS\RYAN~1.DES\ONEDRIVE\LDNONE~1\CITYOF~3\20-44H~1\AERMOD\ESCONDIDO-2012-V15181.PFL"  
\*\* PROFFILE "C:\USERS\RYAN~1.DES\ONEDRIVE\LDNONE~1\CITYOF~3\20-44H~1\AERMOD\ESCONDIDO-2012-V15181.PFL"  
ME SURFDATA 53120 2012  
ME UAIRDATA 3190 2012  
ME SITEDATA 00001002 2012  
ME PROFBASE 0 METERS  
ME FINISHED

OU STARTING  
OU FILEFORM FIX  
OU FINISHED

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\*\* It is recommended that the user not edit any data below this line  
\*\* \*\*\*\*\*

\*\* AMPTYPE  
\*\* AMPDATUM -1  
\*\* AMPZONE -1  
\*\* AMPHEMISPHERE

\*\* PROJECTIONWKT  
PROJCS["UTM\_6326\_Zone11",GEOGCS["WGS\_84",DATUM["World\_Geodetic\_System\_1984",SPHEROID["WGS\_1984",6378137,298.257223563],TOWGS84[0,0,0,0,0,0,0,0]],PRIMEM["Greenwich",0],UNIT["Degree",0.0174532925199433]],PROJECTION["Universal\_Transverse\_Mercator"],PARAMETER["Zone",11],UNIT["Meter",1],AUTHORITY["EPSG","9001"]  
]]

\*\* PROJECTION UTM  
\*\* DATUM WGE  
\*\* UNITS METER  
\*\* ZONE 11  
\*\* HEMISPHERE N  
\*\* ORIGINLON 0  
\*\* ORIGINLAT 0  
\*\* PARALLEL1 0  
\*\* PARALLEL2 0  
\*\* AZIMUTH 0  
\*\* SCALEFACT 0  
\*\* FALSEEAST 0  
\*\* FALSENORTH 0

\*\* POSTFMT UNFORM  
\*\* TEMPLATE USERDEFINED  
\*\* AERMODEXE AERMOD\_BREEZE\_19191\_64.EXE  
\*\* AERMAPEXE AERMAP\_EPA\_18081\_64.EXE

\*\*\* Message Summary For AERMOD Model Setup \*\*\*

----- Summary of Total Messages -----

A Total of 0 Fatal Error Message(s)
A Total of 2 Warning Message(s)
A Total of 0 Informational Message(s)

\*\*\*\*\* FATAL ERROR MESSAGES \*\*\*\*\*
\*\*\* NONE \*\*\*

\*\*\*\*\* WARNING MESSAGES \*\*\*\*\*

ME W186 53 MEOPEN: THRESH\_1MIN 1-min ASOS wind speed threshold used 0.40
MX W403 53 PFLCNV: Turbulence data is being used w/o ADJ\_U\* option SigA Data

\*\*\*\*\*
\*\*\* SETUP Finishes Successfully \*\*\*
\*\*\*\*\*

\*\*\* AERMOD - VERSION 19191 \*\*\* \*\* Hollandia Dairy Renovation - Tier 4 PDF \*\*\* 08/27/21
\*\*\* AERMET - VERSION 15181 \*\*\* \*\* \*\*\* 13:21:01
PAGE 1

\*\*\* MODELOPTS: RegDFault CONC ELEV NODRYDPLT NOWETDPLT RURAL SigA Data

\*\*\* MODEL SETUP OPTIONS SUMMARY \*\*\*

\*\*Model Is Setup For Calculation of Average CONCentration Values.

-- DEPOSITION LOGIC --

\*\*NO GAS DEPOSITION Data Provided.
\*\*NO PARTICLE DEPOSITION Data Provided.
\*\*Model Uses NO DRY DEPLETION. DRYDPLT = F
\*\*Model Uses NO WET DEPLETION. WETDPLT = F

\*\*Model Uses RURAL Dispersion Only.

\*\*Model Uses Regulatory DEFAULT Options:
1. Stack-tip Downwash.
2. Model Accounts for ELEvated Terrain Effects.
3. Use Calms Processing Routine.
4. Use Missing Data Processing Routine.
5. No Exponential Decay.

\*\*Other Options Specified:
CCVR\_Sub - Meteorological data includes CCVR substitutions
TEMP\_Sub - Meteorological data includes TEMP substitutions

\*\*Model Assumes No FLAGPOLE Receptor Heights.

\*\*The User Specified a Pollutant Type of: PM10

\*\*Model Calculates ANNUAL Averages Only

\*\*This Run Includes: 1 Source(s); 1 Source Group(s); and 3 Receptor(s)
with: 0 POINT(s), including 0 POINTCAP(s) and 0 POINTHOR(s)
and: 0 VOLUME source(s)
and: 1 AREA type source(s)
and: 0 LINE source(s)
and: 0 RLINE/RLINEXT source(s)
and: 0 OPENPIT source(s)
and: 0 BUOYANT LINE source(s) with 0 line(s)

\*\*Model Set To Continue RUNning After the Setup Testing.

\*\*The AERMET Input Meteorological Data Version Date: 15181

\*\*Output Options Selected:
Model Outputs Tables of ANNUAL Averages by Receptor

\*\*NOTE: The Following Flags May Appear Following CONC Values: c for Calm Hours
m for Missing Hours
b for Both Calm and Missing Hours

\*\*Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) = 0.00 ; Decay Coef. = 0.000 ; Rot. Angle = 0.0
Emission Units = GRAMS/SEC ; Emission Rate Unit Factor = 0.10000E+07
Output Units = MICROGRAMS/M\*\*3

\*\*Approximate Storage Requirements of Model = 3.5 MB of RAM.

\*\*Input Runstream File: aermod.inp
\*\*Output Print File: aermod.out

\*\*\* AERMOD - VERSION 19191 \*\*\* \*\* Hollandia Dairy Renovation - Tier 4 PDF \*\*\* 08/27/21
\*\*\* AERMET - VERSION 15181 \*\*\* \*\* \*\*\* 13:21:01
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First hour of profile data  
YR MO DY HR HEIGHT F WDIR WSPD AMB\_TMP sigmaA sigmaW sigmaV  
12 01 01 01 10.0 1 51. 0.44 282.6 30.0 -99.00 0.20

F indicates top of profile (=1) or below (=0)

\*\*\* AERMOD - VERSION 19191 \*\*\* \*\* Hollandia Dairy Renovation - Tier 4 PDF \*\*\* 08/27/21  
\*\*\* AERMET - VERSION 15181 \*\*\* \*\* \*\*\* 13:21:01  
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\*\*\* MODELOPTs: RegDFault CONC ELEV NODRYDPLT NOWETDPLT RURAL SigA Data

\*\*\* THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 1 YEARS FOR SOURCE GROUP: ALL \*\*\*  
INCLUDING SOURCE(S): 2H5AJ000 ,

\*\*\* SENSITIVE DISCRETE RECEPTOR POINTS \*\*\*

\*\* CONC OF PM10 IN MICROGRAMS/M\*\*3 \*\*

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
486551.20	3667350.30	0.00389	486493.20	3667475.10	0.00499
486041.20	3667658.00	0.00727			

\*\*\* AERMOD - VERSION 19191 \*\*\* \*\* Hollandia Dairy Renovation - Tier 4 PDF \*\*\* 08/27/21  
\*\*\* AERMET - VERSION 15181 \*\*\* \*\* \*\*\* 13:21:01  
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\*\*\* MODELOPTs: RegDFault CONC ELEV NODRYDPLT NOWETDPLT RURAL SigA Data

\*\*\* THE SUMMARY OF MAXIMUM ANNUAL RESULTS AVERAGED OVER 1 YEARS \*\*\*

\*\* CONC OF PM10 IN MICROGRAMS/M\*\*3 \*\*

GROUP ID	AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	NETWORK GRID-ID
ALL	1ST HIGHEST VALUE IS	0.00727 AT ( 486041.20, 3667658.00, 0.00, 0.00, 0.00)	SR	
	2ND HIGHEST VALUE IS	0.00499 AT ( 486493.20, 3667475.10, 0.00, 0.00, 0.00)	SR	
	3RD HIGHEST VALUE IS	0.00389 AT ( 486551.20, 3667350.30, 0.00, 0.00, 0.00)	SR	
	4TH HIGHEST VALUE IS	0.00000 AT ( 0.00, 0.00, 0.00, 0.00, 0.00)		
	5TH HIGHEST VALUE IS	0.00000 AT ( 0.00, 0.00, 0.00, 0.00, 0.00)		
	6TH HIGHEST VALUE IS	0.00000 AT ( 0.00, 0.00, 0.00, 0.00, 0.00)		
	7TH HIGHEST VALUE IS	0.00000 AT ( 0.00, 0.00, 0.00, 0.00, 0.00)		
	8TH HIGHEST VALUE IS	0.00000 AT ( 0.00, 0.00, 0.00, 0.00, 0.00)		
	9TH HIGHEST VALUE IS	0.00000 AT ( 0.00, 0.00, 0.00, 0.00, 0.00)		
	10TH HIGHEST VALUE IS	0.00000 AT ( 0.00, 0.00, 0.00, 0.00, 0.00)		

\*\*\* RECEPTOR TYPES: GC = GRIDCART  
GP = GRIDPOLR  
DC = DISCCART  
DP = DISCPOLR

\*\*\* AERMOD - VERSION 19191 \*\*\* \*\* Hollandia Dairy Renovation - Tier 4 PDF \*\*\* 08/27/21  
\*\*\* AERMET - VERSION 15181 \*\*\* \*\* \*\*\* 13:21:01  
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\*\*\* MODELOPTs: RegDFault CONC ELEV NODRYDPLT NOWETDPLT RURAL SigA Data

\*\*\* Message Summary : AERMOD Model Execution \*\*\*

----- Summary of Total Messages -----

A Total of 0 Fatal Error Message(s)  
A Total of 2 Warning Message(s)  
A Total of 378 Informational Message(s)

A Total of 8784 Hours Were Processed  
A Total of 250 Calm Hours Identified  
A Total of 128 Missing Hours Identified ( 1.46 Percent)

\*\*\*\*\* FATAL ERROR MESSAGES \*\*\*\*\*  
\*\*\* NONE \*\*\*

\*\*\*\*\* WARNING MESSAGES \*\*\*\*\*  
ME W186 53 MEOPEN: THRESH\_1MIN 1-min ASOS wind speed threshold used 0.40  
MX W403 53 PFLCNV: Turbulence data is being used w/o ADJ\_U\* option SigA Data

\*\*\*\*\*  
\*\*\* AERMOD Finishes Successfully \*\*\*  
\*\*\*\*\*

**Air Quality Health Risk Calculations (Worst-Case)**  
**Hollandia Renovations Phase 1 and Phase 2 Construction (PDF Tier 4 Equipment Nearby Residential Receptor)**

From CalEE Annual Output	Emission per day (Ton/Total Construction Duration)	<b>0.0047</b>				
	Construction Start	<b>10/1/2021</b>				
	Construction Complete	<b>5/8/2023</b>				
	Days	<b>584</b>				
	Construction Emission per day (lb/day)	<b>0.01609589</b>				
	Annual Duration (Days)	<b>365</b>				
	Annualized Emission Rate (Grams/Second)	<b>8.44E-05</b>				
	Project Site Size (Acres)	<b>4.75</b>				
	Project Site Size (meters^2)	<b>19222.56801</b>				
	Length of Smalles Side (meters)	<b>138.645476</b>				
Used as an input to SCREEN3	Emission Rate over Grading Area( g/s-m^2)	<b>4.39E-09</b>				
From SCREEN3*0.08	Concentration Annual (Ug/M^3)	<b>0.0073</b>				
Duration	Days	Days to years				
	584	1.6				
Age (Years)	3rd Trimester (0.25)	0-2	2-9	2-16	16-30	16-70
Cair (annual) - From F15	0.0073	0.0073	0.0073	0.0073	0.0073	0.0073
Breathing Rate per agegroup BR/BW (Page 5-25)	361	1090	861	745	335	290
A (Default is 1)	1	1	1	1	1	1
Exposure Frequency = EF (days/365days)	0.96	0.96	0.96	0.96	0.96	0.96
10^-6 Microgram to Milligram / liters to m3	0.000001	0.000001	0.000001	0.000001	0.000001	0.000001
Dose-inh	0.00000253	0.00000764	0.00000603	0.00000522	0.00000235	0.00000203
Construction Days	584	1.6				
potency factor for Diesel	1.1	1.1	1.1	1.1	1.1	1.1
Age Sensitivity Factor	10	10	3	3	1	1
ED	0.25	1.6	1.6	1.6	1.6	1.6
AT	70	70	70	70	70	70
FAH	0.85	0.85	0.72	0.72	0.73	0.73
Risk for Each Age Group	8.44802E-08	1.6325E-06	3.27692E-07	2.83543E-07	4.309E-08	3.73018E-08
Risk per million Exposed	0.084480189	1.632503589	0.327691837	0.283542879	0.043089989	0.037301782
Cancer Risk Per Million 9-years	2.04					
Cancer Risk Per Million 30-years	2.04					
<b>Cancer Risk Per Million 70-years</b>	<b>2.04</b>					

**Air Quality Health Risk Calculations (Worst-Case)**  
**Hollandia Renovations Phase 1 and Phase 2 Construction (PDF Tier 4 Equipment Nearby School)**

From CalEE Annual Output	Emission per day (Ton/Total Construction Duration)	<b>0.0047</b>				
	Construction Start	<b>10/1/2021</b>				
	Construction Complete	<b>5/8/2023</b>				
	Days	<b>584</b>				
	Construction Emission per day (lb/day)	<b>0.01609589</b>				
	Annual Duration (Days)	<b>365</b>				
	Annualized Emission Rate (Grams/Second)	<b>0.000084</b>				
	Project Site Size (Acres)	<b>4.75</b>				
	Project Site Size (meters^2)	<b>19222.56801</b>				
	Length of Smalles Side (meters)	<b>138.645476</b>				
Used as an input to SCREEN3	Emission Rate over Grading Area( g/s-m^2)	<b>4.39E-09</b>				
From SCREEN3*0.08	Concentration Annual (Ug/M^3)	<b>0.005</b>				
Duration	Days	Days to years				
	458	1.254794521				
Age (Years)	3rd Trimester (0.25)	0-2	2-9	2-16	16-30	16-70
Cair (annual) - From F15	0.005	0.005	0.005	0.005	0.005	0.005
Breathing Rate per agegroup BR/BW (Page 5-25)	361	1090	861	745	335	290
A (Default is 1)	1	1	1	1	1	1
Exposure Frequency = EF (days/365days)	0.96	0.96	0.96	0.96	0.96	0.96
10^-6 Microgram to Milligram / liters to m3	0.000001	0.000001	0.000001	0.000001	0.000001	0.000001
Dose-inh	0.00000173	0.00000523	0.00000413	0.00000358	0.00000161	0.00000139
Construction Days	458	1.254794521				
potency factor for Diesel	1.1	1.1	1.1	1.1	1.1	1.1
Age Sensitivity Factor	10	10	3	3	1	1
ED	0.25	1.254794521	1.254794521	1.254794521	1.254794521	1.254794521
AT	70	70	70	70	70	70
FAH	0.85	0.85	0.72	0.72	0.73	0.73
Risk for Each Age Group	5.78631E-08	8.76908E-07	1.76021E-07	1.52307E-07	2.3146E-08	2.00368E-08
Risk per million Exposed	0.057863143	0.876907773	0.176021371	0.152306529	0.023146011	0.020036846
Cancer Risk Per Million 9-years	1.11					
Cancer Risk Per Million 30-years	1.11					
<b>Cancer Risk Per Million 70-years</b>	<b>1.11</b>					