

**Hollandia Dairy CUP Modification
Technical Appendices**

**Appendix E
CAP Consistency Review Checklist and
Greenhouse Gas Report**



Application Information

Contact Information

Project No. and Name: Hollandia Dairy CUP

Property Address and APN: 622 E. Mission Rd. 218-180-48

Applicant Name and Co.: Hollandia Dairy

Contact Phone: 760-471-2365 Contact Email: jason.greminger@ccconnect.com

Was a consultant retained to complete this checklist? Yes No
 If Yes, complete the following:

Consultant Name: _____ Contact Phone: _____

Company Name: _____ Contact Email: _____

Project Information

- What is the size of the project site (acres)? 14.54 acres
- Identify all applicable proposed land uses:
 - Residential (indicate # of single-family dwelling units): _____
 - Residential (indicate # of multi-family dwelling units): _____
 - Commercial (indicate total square footage): _____
 - Industrial (indicate total square footage): 104,135 (76,763 net)
 - Other (describe): _____

3. Provide a description of the project proposed. This description should match the basic project description used for the CEQA document. The description may be attached to the Checklist if there are space constraints.

See attached.



STEP 1: LAND USE CONSISTENCY

The first step in this section evaluates a project's GHG emissions consistent with the City's *Guidance to Demonstrating Consistency with the City of San Marcos Climate Action Plan: For Discretionary Projects Subject to CEQA* (Guidance Document). New discretionary development projects subject to CEQA review that emit fewer than 500 metric tons of carbon dioxide equivalent (MTCO₂e) annually would not contribute considerably to cumulative climate change impacts as stated in the City's Guidance Document, and therefore, would be considered consistent with the CAP and associated emissions projections.

For projects that are subject to CAP consistency review, the next step in determining consistency is to assess the project's consistency with the growth projections used in the development of the CAP. This section allows the city to determine a project's consistency with the land use assumptions used in the CAP.



Step 1: Land Use Consistency

Checklist Item

(Check the appropriate box and provide an explanation and supporting documentation for your answer)

Yes

No

1. The size and type of projects listed below would emit fewer than 500 MTCO₂e per year. Based on this threshold, does the proposed project exceed these characteristics?
- Single Family Housing: 36 dwelling units
 - Multi-Family Housing: 55 dwelling units
 - Office: 43,000 square feet
 - Commercial Space: 20,000 square feet
 - Regional Shopping Center: 18,000 square feet
 - Hotel: 37 rooms
 - Restaurant (Sit-Down): 6,500 square feet
 - Restaurant (Drive-Thru, High Turnover): 2,400 square feet
 - General Light Industrial: 58,000 square feet
 - University: 263 students
 - Mixed-Use: See *Guidance to Demonstrating Consistency* memorandum for methods to estimate mixed-use development thresholds
 - Other: For project types not listed in this section the need for GHG analysis and mitigation will be made on a project-specific basis, considering the 500 MTCO₂e per year screening threshold.

If **“Yes”**, proceed to Question 2 of Step 1. (See attached GHG report for documentation)
 If **“No”**, in accordance with the City’s CAP screening criteria, the project’s GHG impact is less than significant and is not subject to the measures of the CAP.

2. Is the proposed project consistent with the City’s existing General Plan land use designation?

If **“Yes”**, proceed to Step 2.
 If **“No”**, proceed to Question 3 of Step 1

3. For projects not consistent with the existing General Plan land use designation, does the project include a General Plan Amendment that would generate GHG emissions equal to or less than estimated emissions generated under the existing designation?

If **“Yes”**, proceed to Step 2 and provide estimated project emissions under both existing and proposed designation(s) for comparison.
 If **“No”**, the project’s GHG impact is potentially significant, and a GHG analysis must be prepared in accordance with the City’s Guidance Document and applicable CEQA guidelines. The project must incorporate each of the measures identified in Step 2 to mitigate cumulative GHG emissions impacts, along with other mitigation measures as necessary based on a project specific GHG analysis.. Proceed and complete a project specific GHG analysis, and Step 2 of the Checklist.



STEP 2: CAP MEASURES CONSISTENCY

The second step of CAP consistency review is to evaluate a project's consistency with the applicable strategies and measures of the CAP. Each Checklist item is associated with a specific GHG reduction measure in the City's CAP. "N/A" should only be checked based on the direction provided in each Checklist Item question. All projects for which the measure is applicable must demonstrate that they would implement measures consistent with the Checklist Item, or fully substantiate how the item would be infeasible for project implementation. "N/A" responses are subject to Planning Division review and approval. If "No" is provided as a response to a question, the project would be determined to be inconsistent with the CAP and result in a significant GHG impact.



Step 2: CAP Measures Consistency

Checklist Item (Check the appropriate box and provide an explanation for your answer. Please use additional sheets if necessary)	Yes	No	N/A
Project Design			
<p>1. Electric Vehicle Charging Stations (Measure T-2)</p> <p><u>Multi-Family Residential and Non-Residential:</u> Will the project install electric vehicle charging stations (Level 2 or better) in at least five percent of the total parking spaces provided on-site?</p> <p>Check “N/A” if the project is a single-family residential project or would not provide any parking.</p> <p>Please substantiate how the project satisfies question 1:</p> <hr/> <hr/> <hr/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<p>2. Bicycle Infrastructure (Measure T-8)</p> <p><u>Residential and Non-Residential Projects:</u> If the following conditions are met, would the project pay its fair-share contribution to bicycle infrastructure improvements?</p> <ul style="list-style-type: none"> <input type="checkbox"/> Intersection or roadway segment improvements are proposed as part of the project and, <input type="checkbox"/> The City’s General Plan Mobility Element identifies bicycle infrastructure improvements at any intersection(s) or roadway segment(s) that would be improved as part of the project. <p>Check “N/A” if the conditions above would not be met.</p> <p>Please substantiate how the project satisfies question 2:</p> <hr/> <hr/> <hr/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



Step 2: CAP Measures Consistency

Checklist Item (Check the appropriate box and provide an explanation for your answer. Please use additional sheets if necessary)	Yes	No	N/A
<p>3. Transportation Demand Management (Measure T-9)</p> <p><u>Multi-Family Residential and Non-Residential:</u> Will the project develop and implement a TDM plan that includes, at a minimum, all of the TDM strategies listed below?</p> <ul style="list-style-type: none"> <input type="checkbox"/> Provide discounted monthly transit pass or provide at least 25 percent transit fare subsidy to residents/employees. <input type="checkbox"/> Provide designated car-share, carpool, vanpool, and/or park-and-ride parking spaces.² <input type="checkbox"/> Provide pedestrian connections between all internal uses and to all existing or planned external streets around the project site(s). <input type="checkbox"/> Provide secure bicycle parking spaces or bicycle racks, showers, and clothes lockers. <input type="checkbox"/> Encourage telecommuting for employees (allow one telecommute day per week or compressed work weeks) or provide a telecommute work center with common office space and equipment available to residents. <p style="text-align: center;">-or-</p> <p>Would the project implement and monitor for four (4) years a TDM program that demonstrates an alternative transportation (i.e. carpool, public transit, bicycle, walk, telecommute) mode share of at least 29 percent ³ for all residents?</p> <p>Check “N/A” if the project is a single-family residential project or is not subject to the City’s TDM Ordinance.</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<p>Please state which measure option the project for which the project would comply and substantiate how the project satisfies question 3:</p> <hr/> <hr/> <hr/> <hr/> <hr/>			

² The designated number of car-share, carpool, vanpool, and/or park-and-ride parking spaces provided at a rate equal to or greater than CALGreen minimum requirements.

³ Measure T-10 requires projects to increase alternative mode share by seven percent. The baseline mode share for alternative transportation (i.e. carpool, public transit, bicycle, walk, and telecommute) is 22 percent based on 2010 Census Data.



Step 2: CAP Measures Consistency

Checklist Item (Check the appropriate box and provide an explanation for your answer. Please use additional sheets if necessary)	Yes	No	N/A
<p>4. Reduce Parking Near Transit (Measure T-12)</p> <p><u>Multi-Family Residential:</u> If located within a half-mile of a major transit stop⁴, would the project provide at least 27 percent fewer parking spaces than required for the same use based on the City’s municipal code parking requirements?</p> <p>Check “N/A” if the project is a single-family residential or non-residential project.</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<p>Please substantiate how the project satisfies question 4:</p> <hr/> <hr/> <hr/> <hr/> <hr/>			

<p>5. Water Heaters (Measure E-1)</p> <p><u>Residential:</u> Will the project install one of, or a combination of, the following water heater types in place of natural gas water heaters?</p> <ul style="list-style-type: none"> <input type="checkbox"/> Electric heat pump water heater <input type="checkbox"/> Instantaneous electric water heater <input type="checkbox"/> Electric tank <input type="checkbox"/> Solar water heater with heat pump water heater backup <input type="checkbox"/> Solar water heater with electric tank backup <p>Check “N/A” if the project is a non-residential project.</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<p>Please substantiate how the project satisfies question 5:</p> <hr/> <hr/> <hr/> <hr/> <hr/>			

⁴ Major transit stop is defined as a bus or light-rail station with fixed service and 10-minute minimum headways during peak hours. Project applicants should confirm with City staff if the project site would fall within this proximity to a major transit stop.



Step 2: CAP Measures Consistency

Checklist Item
(Check the appropriate box and provide an explanation for your answer. Please use additional sheets if necessary)

	Yes	No	N/A
<p>6. Photovoltaic Installation (Measure E-2)</p> <p><u>Non-Residential:</u> Will the project install photovoltaic systems with a minimum capacity of two watts per square foot of gross floor area?</p> <p>Check “N/A” if the project is a residential project or if installation of on-site photovoltaic would be infeasible.</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Please substantiate how the project satisfies question 6:

<p>7. Landscaping Water Use (Measure W-1)</p> <p><u>Residential and Non-Residential:</u> Will the project comply with the City’s Water Efficient Landscape Ordinance?⁵</p> <p>Check “N/A” if the project is not proposing any landscaping or is not subject to the City’s Water Efficient Landscape Ordinance.</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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Please substantiate how the project satisfies question 7:

⁵ City of San Marcos Landscape Manual: <https://www.san-marcos.net/home/showdocument?id=13984>



Step 2: CAP Measures Consistency

Checklist Item (Check the appropriate box and provide an explanation for your answer. Please use additional sheets if necessary)	Yes	No	N/A
<p>8. Urban Tree Canopy (Measure C-2)</p> <p><u>Single-Family Residential</u>: Will the project plant a minimum of one tree per single-family residential unit?</p> <p style="text-align: center;">-or-</p> <p><u>Multi-Family Residential and Non-Residential</u>: If the project is providing more than 10 parking spaces, will the project plant at least one tree per five parking spaces provided?</p> <p>Check "N/A" if planting the required number of trees on-site would be infeasible.</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Please substantiate how the project satisfies question 8:

**Hollandia Dairy CUP Modification
Technical Appendices**

**Greenhouse Gas
Report**

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September 10, 2021

Sophia Hahl Mitchell
Sophia Mitchell & Associates
P.O. Box 1700
Gualala, CA 95445

RE: Hollandia Dairy Modernization Greenhouse Gas – City of San Marcos

The purpose of this Greenhouse Gas (GHG) letter is to identify impacts, if any, which may be created from the construction as well as calculate the net change in GHG emissions generated from the operation 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.

Table 1. Project Development Phasing Plan

Demolition	Area (SF)	New Building Construction	Area (SF)	Net Change (SF)
PHASE 1		PHASE 1		
Cooler Warehouse Loading Dock	+/- 10,076	Process Building 1 st Level	+/- 35,418	+ 37,246
		Office/Welfare	+/- 9,168	
Utility Canopy	+/- 797	Utility Building	+/- 3,533	
Subtotal	+/- 10,873	Total	+/- 48,119	
PHASE 2		PHASE 2		
Process Facility	+/- 15,061	Warehouse 1 st Level	+/- 28,008	+ 39,517
Mechanical	+/- 1,438	Warehouse 2 nd Level (unoccupied space)	28,008	
Subtotal	+/- 16,499	Phase 2 New Construction Subtotal	56,016	
Project Total	+/- 27,372	New Construction Total	104,135	+ 76,763¹
1. 76,763 SF represents the net change of the new construction, however, the 2 nd 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).				

GHG Thresholds of Significance

The City of San Marcos (City) adopted an updated Climate Action Plan (CAP) on December 8, 2020. The CAP outlines strategies and measures that the City will undertake to achieve its proportional share of State greenhouse gas (GHG) emissions reduction targets. The CAP is a plan for the reduction of GHG emissions in accordance with California Environmental Quality Act (CEQA) Guidelines Section 15183.5. Pursuant to CEQA Guidelines Sections 15064(h)(3), 15130(d), and 15183(b), a project’s incremental contribution to a cumulative GHG emissions effect may be determined not to be cumulatively considerable if it complies with the requirements of the CAP (City of San Marcos, 2020).

The City has also developed a Climate Action Plan Consistency Review Checklist (CAP Consistency Checklist), in conjunction with the CAP, to provide a streamlined review process for proposed new development projects that are subject to discretionary review and trigger environmental review pursuant to CEQA. The CAP summarizes the methodology and application of a GHG screening threshold (set at 500 metric tons carbon dioxide equivalent [MTCO₂e] per year) for new development projects in order to determine if a project would need to demonstrate consistency with the CAP through the CAP Consistency Checklist.

Projects emitting less than 500 MT CO₂e would be considered to have a less than significant GHG impact.

Construction GHG Emissions

GHGs related to construction were calculated using the latest CalEEMod 2020.4.0 model. A separate 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. Construction of Phase 1 would include the removal of a cooler warehouse, loading dock and utility canopy followed by the construction of the process building and office/welfare area. Phase 2 of the project would commence after Phase 1 is complete sometime in 2022 and be completed in 2023.

Construction of Phase 2 would include demolition of the existing processing facility and mechanical area followed by the construction of the additional warehouse space. Combined, the total demolition area of both phases would be 27,372 SF. Additionally, 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.

Table 2 shows the construction equipment and durations as modeled in CalEEMod. It should also be noted that construction estimates are just estimates and construction may occur later pending approval of the CUP by the City. Since construction technologies and efficiencies are continuously improving, it is appropriate to assume that if construction occurs at a later date, then GHG emissions would be less than or equal to the numbers presented in this report.

Table 2: Expected Construction Equipment

Equipment Identification	Proposed Start	Proposed Completion	Quantity
Phase 1			
Demolition	10/1/2021	10/28/2021	
Concrete/Industrial Saws			1
Rubber Tired Dozers			1
Tractors/Loaders/Backhoes			3
Site Preparation	10/29/2021	11/1/2021	
Graders			1
Rubber Tired Dozers			1
Tractors/Loaders/Backhoes			1
Grading	11/2/2021	11/5/2021	
Graders			1
Rubber Tired Dozers			1
Tractors/Loaders/Backhoes			2
Building Construction	11/6/2021	8/12/2022	
Cranes			1
Forklifts			1
Generator Sets			1
Tractors/Loaders/Backhoes			1
Welders			3
Paving	8/13/2022	8/26/2022	
Cement and Mortar Mixers			1
Pavers			1
Paving Equipment			1
Rollers			1
Tractors/Loaders/Backhoes			1
Architectural Coating	8/1/2022	8/12/2022	
Air Compressors			1
Phase 2			
Demolition	12/01/2022	12/14/2022	
Concrete/Industrial Saws			1
Rubber Tired Dozers			1
Tractors/Loaders/Backhoes			2
Site Preparation	12/15/2022	12/15/2022	
Graders			1
Tractors/Loaders/Backhoes			1
Grading	11/2/2021	11/5/2021	
Graders			1
Tractors/Loaders/Backhoes			1
Building Construction	12/20/2022	05/08/2023	
Cranes			1
Forklifts			2
Tractors/Loaders/Backhoes			2
Paving	05/09/2023	05/15/2023	
Cement and Mortar Mixers			4
Pavers			1
Rollers			1
Tractors/Loaders/Backhoes			1
Architectural Coating	4/27/2023	5/8/2023	
Air Compressors			1

Utilizing CALEEMOD, we find that construction for Phase 1 will produce approximately 249.49 MT CO₂e over the construction life of the project. Given the fact that the total emissions will ultimately contribute to cumulative levels, it is acceptable to average the total construction emissions over the life of the project which is assumed to be 30 years. Given this, Phase 1 would add 8.32 MT CO₂e per year. A summary of the construction emissions for Phase 1 is shown in Table 3. Also, it should be noted that operational output would remain consistent during construction.

Table 3: Phase 1 Expected Construction CO₂e Emissions Summary (Metric Tons)

Year	Bio-CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e (MT)
2021	0.00	71.16	71.16	0.01	0.00	71.77
2022	0.00	176.35	176.35	0.03	0.00	177.72
Total						249.49
Yearly Average Construction Emissions (Metric Tons/year over 30 years)						8.32
Expected Construction emissions are based upon CalEEMod modeling assumptions (Table 2 above)						

Phase 2 was found to produce 80.89 MT CO₂e over the construction life of the project or 2.70 MT CO₂e per year. A summary of the construction emissions for Phase 2 is shown in Table 4. Combined Phase 1 and Phase 2 construction emissions are 11.02 MT CO₂e over the construction life of the project.

Table 4: Phase 2 Expected Construction CO₂e Emissions Summary (Metric Tons)

Year	Bio-CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e (MT)
2022	0.00	15.23	15.23	0.00	0.00	15.46
2023	0.00	64.62	64.62	0.02	0.00	65.43
Total						80.89
Yearly Average Construction Emissions (Metric Tons/year over 30 years)						2.70
Combined Construction Emissions (Phase 1 and Phase 2)						11.02
Expected Construction emissions are based upon CalEEMod modeling assumptions (Table 2 above)						

Operational GHG Emissions (Existing Use)

Operations at the existing Hollandia Dairy would remain the same with the approval of this project. The modernization project is necessary for the Hollandia Dairy to meet current

regulations with respect to equipment separation. Vehicular trips, employment and input/output would not change based on this project.

The Hollandia Dairy project proposes to replace their existing creamery and central plant containing approximately 27,372 square feet of which 25,137 SF is occupied space. This analysis compares the emissions generated by the existing facilities, constructed in the 1950s, with the emissions generated by the proposed modern facility.

GHGs from the existing occupied area include the emissions generated from Area, Energy, Solid Waste and Water uses, and were calculated within CalEEMod. The program is largely based on default settings which are automatically populated throughout the model based on the inputted land use.

CalEEMod has an option to use energy emissions from 2019 or from before 2019 (Historic Inputs). The facility was constructed in the 1950s and would likely generate higher emissions from older equipment than the default settings. However, since the existing operational emissions will be subtracted from the proposed operational emissions, to be conservative, this analysis assumed energy emissions for the existing facility to be from 2019 or newer. Mobile emissions were excluded from the analysis since the proposed modernization project would not change capacity or worker levels and vehicular trips would remain the same. The calculated operational emissions for the existing operations are identified in Table 5 and were done for the 2023 scenario. Also, CalEEMod outputs for the existing operations are attached to this letter (**Attachment C**). Based on these findings, the existing area generates 263.64 MT CO₂e.

Table 5: Existing Facility Operational Emissions Summary (MT/Year)

Year	Bio-CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e (MT/Yr)
Area	0.00	0.00	0.00	0.00	0.00	0.00
Energy	0.00	224.38	224.38	0.01	0.00	225.24
Mobile	0.00	0.00	0.00	0.00	0.00	0.00
Waste	4.80	0.00	4.80	0.28	0.00	11.88
Water	1.84	18.54	20.39	0.19	0.00	26.52
Total Existing Facility Operations (MT/Year)						263.64
Data is presented in decimal format and may have rounding errors.						

Project Related Operational Emissions

As previously discussed, emissions generated from Area, Energy, Solid Waste and Water uses are also calculated within CalEEMod. The program is largely based on default settings which are automatically populated throughout the model based on the inputted land uses. It should be noted that specific equipment within the plant was not modeled individually since the proposed modernized plant would not increase capacity. Some of the equipment will be upgraded, which will result in even greater efficiencies, and some of the existing equipment will be retained and continued to be used. Therefore, CalEEMod algorithms are sufficient for planning purposes.

The Phase 1 and Phase 2 operation modeling results are also provided in **Attachments A and B**. As shown in Table 6, the calculated operational emissions for Phase 1 and Phase 2 of the modernization project including annualized construction emissions from both phases minus the emissions from the existing use to be replaced by this project is 233.82 MT CO₂e.

Table 6: Proposed Operations Summary (MT/Year)

Year	Bio-CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e (MT/Yr)
Phase 1 - Area	0.00	0.00	0.00	0.00	0.00	0.00
Phase 1 - Energy	0.00	349.22	349.22	0.02	0.00	350.58
Phase 1 - Waste	9.38	0.00	9.38	0.55	0.00	23.23
Phase 1 - Water	3.37	36.64	40.01	0.35	0.01	51.25
Phase 2 - Area	0.00	0.00	0.00	0.00	0.00	0.00
Phase 2 - Energy	0.00	26.82	26.82	0.00	0.00	26.92
Phase 2 - Waste	5.34	0.00	5.34	0.32	0.00	13.24
Phase 2 - Water	2.05	20.65	22.70	0.21	0.01	29.54
Proposed Operations						494.76
Phase 1 – Amortized Construction (See Table 3)						8.32
Phase 2 - Amortized Construction (See Table 4)						2.7
Proposed Operations Plus Phase 1 and Phase 2 Construction						497.46
Existing Operations						-263.64
Total Proposed Additional Facility Operational GHG Emissions (MT/Year)						233.82
Data is presented in decimal format and may have rounding errors.						

Based on the analysis the project would generate a net increase in GHG emissions of 233.82 MT CO₂e per year. Since this does not exceed the 500 MT CO₂e screening threshold, a less than significant impact is expected.

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Fax 760-689-4943

If you have any questions, please do not hesitate to contact me directly at (760) 473-1253.

Sincerely,
Ldn Consulting, Inc.



Jeremy Louden

References

City of San Marcos. (2020). *Appendix D - Guidance to Demonstrating Consistency with the City of San Marcos Climate Action Plan for Discretionary Projects Subject to CEQA and City of San Marcos Climate Action Plan Consistency Review Checklist*. Retrieved from <https://www.san-marcos.net/home/showpublisheddocument?id=25086>

Attachments

Attachment A: Phase 1 - CalEEMod Model Results

Attachment B: Phase 2 - CalEEMod Model Results

Attachment C: Existing Operations to be demolished - CalEEMod Model Results

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

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

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

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2022
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	539.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - 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, Annual

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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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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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
Maximum	0.3654	1.0797	1.1222	2.1000e-003	0.0378	0.0497	0.0668	0.0139	0.0479	0.0526	0.0000	176.3545	176.3545	0.0280	4.3100e-003	177.7229

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
Maximum	0.2534	0.3397	1.1593	2.1000e-003	0.0378	3.0000e-003	0.0401	0.0139	2.9700e-003	0.0162	0.0000	176.3543	176.3543	0.0280	4.3100e-003	177.7227

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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
Total	0.2126	0.0220	0.0189	1.3000e-004	0.0000	1.6700e-003	1.6700e-003	0.0000	1.6700e-003	1.6700e-003	12.7495	385.8581	398.6076	0.9232	0.0113	425.0545

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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
Total	0.2126	0.0220	0.0189	1.3000e-004	0.0000	1.6700e-003	1.6700e-003	0.0000	1.6700e-003	1.6700e-003	12.7495	385.8581	398.6076	0.9232	0.0113	425.0545

	ROG	NOx	CO	SO2	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	

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

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
Total	0.0199	0.1970	0.1449	2.4000e-004	5.4200e-003	0.0104	0.0158	8.2000e-004	9.7100e-003	0.0105	0.0000	21.0713	21.0713	5.3900e-003	0.0000	21.2060

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
Total	5.8000e-004	5.1800e-003	4.5900e-003	3.0000e-005	1.4600e-003	8.0000e-005	1.5400e-003	4.0000e-004	8.0000e-005	4.6000e-004	0.0000	2.4598	2.4598	1.0000e-004	2.8000e-004	2.5451

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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
Total	2.8100e-003	0.0122	0.1472	2.4000e-004	5.4200e-003	3.7000e-004	5.7900e-003	8.2000e-004	3.7000e-004	1.1900e-003	0.0000	21.0713	21.0713	5.3900e-003	0.0000	21.2060

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
Total	5.8000e-004	5.1800e-003	4.5900e-003	3.0000e-005	1.4600e-003	8.0000e-005	1.5400e-003	4.0000e-004	8.0000e-005	4.6000e-004	0.0000	2.4598	2.4598	1.0000e-004	2.8000e-004	2.5451

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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
Total	1.5600e-003	0.0174	7.5600e-003	2.0000e-005	6.3900e-003	7.7000e-004	7.1600e-003	3.0200e-003	7.0000e-004	3.7200e-003	0.0000	1.5118	1.5118	4.9000e-004	0.0000	1.5241

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
Total	8.4000e-004	0.0224	5.4100e-003	7.0000e-005	1.9900e-003	3.2000e-004	2.3100e-003	5.5000e-004	3.1000e-004	8.6000e-004	0.0000	7.3063	7.3063	3.4000e-004	1.1500e-003	7.6584

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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
Total	2.1000e-004	9.1000e-004	8.6700e-003	2.0000e-005	6.3900e-003	3.0000e-005	6.4200e-003	3.0200e-003	3.0000e-005	3.0500e-003	0.0000	1.5118	1.5118	4.9000e-004	0.0000	1.5241

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
Total	8.4000e-004	0.0224	5.4100e-003	7.0000e-005	1.9900e-003	3.2000e-004	2.3100e-003	5.5000e-004	3.1000e-004	8.6000e-004	0.0000	7.3063	7.3063	3.4000e-004	1.1500e-003	7.6584

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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
Total	3.6500e-003	0.0404	0.0195	4.0000e-005	0.0144	1.8300e-003	0.0163	6.8900e-003	1.6800e-003	8.5700e-003	0.0000	3.6208	3.6208	1.1700e-003	0.0000	3.6501

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
Total	1.7000e-003	0.0448	0.0109	1.5000e-004	4.0100e-003	6.4000e-004	4.6600e-003	1.1000e-003	6.2000e-004	1.7100e-003	0.0000	14.6397	14.6397	6.8000e-004	2.3000e-003	15.3441

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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
Total	5.0000e-004	2.1900e-003	0.0218	4.0000e-005	0.0144	7.0000e-005	0.0145	6.8900e-003	7.0000e-005	6.9600e-003	0.0000	3.6208	3.6208	1.1700e-003	0.0000	3.6501

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
Total	1.7000e-003	0.0448	0.0109	1.5000e-004	4.0100e-003	6.4000e-004	4.6600e-003	1.1000e-003	6.2000e-004	1.7100e-003	0.0000	14.6397	14.6397	6.8000e-004	2.3000e-003	15.3441

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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
Total	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

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
Total	1.7400e-003	0.0116	0.0135	7.0000e-005	4.1100e-003	2.0000e-004	4.3100e-003	1.1200e-003	1.9000e-004	1.3100e-003	0.0000	6.0009	6.0009	2.0000e-004	5.8000e-004	6.1776

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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
Total	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

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
Total	1.7400e-003	0.0116	0.0135	7.0000e-005	4.1100e-003	2.0000e-004	4.3100e-003	1.1200e-003	1.9000e-004	1.3100e-003	0.0000	6.0009	6.0009	2.0000e-004	5.8000e-004	6.1776

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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
Total	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

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
Total	5.8100e-003	0.0384	0.0489	2.5000e-004	0.0164	4.4000e-004	0.0169	4.4700e-003	4.2000e-004	4.8800e-003	0.0000	23.3709	23.3709	7.2000e-004	2.2300e-003	24.0529

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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
Total	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

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
Total	5.8100e-003	0.0384	0.0489	2.5000e-004	0.0164	4.4000e-004	0.0169	4.4700e-003	4.2000e-004	4.8800e-003	0.0000	23.3709	23.3709	7.2000e-004	2.2300e-003	24.0529

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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
Total	0.2240	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

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
Total	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

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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
Total	0.2231	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

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
Total	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

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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
Total	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

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
Total	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

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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
Total	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

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
Total	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

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4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	0.0000	0.0000	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
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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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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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
Total		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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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
Total		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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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
Total		325.3287	0.0199	2.4100e-003	326.5439

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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
Total		325.3287	0.0199	2.4100e-003	326.5439

6.0 Area Detail

6.1 Mitigation Measures Area

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.2102	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
Total	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

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6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0223					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
Total	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

7.0 Water Detail

7.1 Mitigation Measures Water

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	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
Total		40.0120	0.3487	8.4500e-003	51.2489

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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
Total		40.0120	0.3487	8.4500e-003	51.2489

8.0 Waste Detail

8.1 Mitigation Measures Waste

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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
Total		9.3762	0.5541	0.0000	23.2290

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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
Total		9.3762	0.5541	0.0000	23.2290

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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11.0 Vegetation

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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

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2023
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	539.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - 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

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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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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
Maximum	0.2943	0.3314	0.3806	7.2000e-004	0.0156	0.0157	0.0277	4.4100e-003	0.0145	0.0177	0.0000	64.6164	64.6164	0.0160	1.4000e-003	65.4311

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
Maximum	0.2700	0.0496	0.4090	7.2000e-004	0.0156	1.0600e-003	0.0159	4.4100e-003	1.0500e-003	4.6900e-003	0.0000	64.6163	64.6163	0.0160	1.4000e-003	65.4311

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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	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
Total	0.2450	2.2700e-003	2.4100e-003	1.0000e-005	0.0000	1.7000e-004	1.7000e-004	0.0000	1.7000e-004	1.7000e-004	7.3969	47.4706	54.8675	0.5295	5.3600e-003	69.7033

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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
Total	0.2450	2.2700e-003	2.4100e-003	1.0000e-005	0.0000	1.7000e-004	1.7000e-004	0.0000	1.7000e-004	1.7000e-004	7.3969	47.4706	54.8675	0.5295	5.3600e-003	69.7033

	ROG	NOx	CO	SO2	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	

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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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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
Total	3.5500e-003	0.0321	0.0374	6.0000e-005	8.2200e-003	1.6900e-003	9.9100e-003	1.2500e-003	1.6100e-003	2.8600e-003	0.0000	5.2068	5.2068	9.6000e-004	0.0000	5.2308

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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
Total	3.1000e-004	6.4100e-003	2.7200e-003	2.0000e-005	1.0400e-003	6.0000e-005	1.1000e-003	2.9000e-004	6.0000e-005	3.4000e-004	0.0000	2.6803	2.6803	1.2000e-004	3.8000e-004	2.7975

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
Total	6.6000e-004	2.8700e-003	0.0393	6.0000e-005	8.2200e-003	9.0000e-005	8.3100e-003	1.2500e-003	9.0000e-005	1.3400e-003	0.0000	5.2068	5.2068	9.6000e-004	0.0000	5.2308

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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
Total	3.1000e-004	6.4100e-003	2.7200e-003	2.0000e-005	1.0400e-003	6.0000e-005	1.1000e-003	2.9000e-004	6.0000e-005	3.4000e-004	0.0000	2.6803	2.6803	1.2000e-004	3.8000e-004	2.7975

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
Total	2.9000e-004	3.4700e-003	1.9800e-003	0.0000	2.7000e-004	1.3000e-004	4.0000e-004	3.0000e-005	1.2000e-004	1.5000e-004	0.0000	0.4275	0.4275	1.4000e-004	0.0000	0.4310

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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
Total	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

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
Total	6.0000e-005	2.6000e-004	2.6600e-003	0.0000	2.7000e-004	1.0000e-005	2.8000e-004	3.0000e-005	1.0000e-005	4.0000e-005	0.0000	0.4275	0.4275	1.4000e-004	0.0000	0.4310

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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
Total	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

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
Total	7.7000e-004	8.0600e-003	4.6400e-003	1.0000e-005	4.9100e-003	3.9000e-004	5.3000e-003	2.5300e-003	3.6000e-004	2.8900e-003	0.0000	0.8018	0.8018	2.6000e-004	0.0000	0.8083

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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
Total	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

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
Total	1.1000e-004	4.8000e-004	4.9200e-003	1.0000e-005	4.9100e-003	1.0000e-005	4.9200e-003	2.5300e-003	1.0000e-005	2.5400e-003	0.0000	0.8018	0.8018	2.6000e-004	0.0000	0.8083

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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
Total	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

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
Total	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

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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
Total	4.0000e-004	2.4600e-003	3.3800e-003	2.0000e-005	1.1400e-003	3.0000e-005	1.1600e-003	3.1000e-004	2.0000e-005	3.3000e-004	0.0000	1.5568	1.5568	5.0000e-005	1.4000e-004	1.6007

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
Total	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

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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
Total	4.0000e-004	2.4600e-003	3.3800e-003	2.0000e-005	1.1400e-003	3.0000e-005	1.1600e-003	3.1000e-004	2.0000e-005	3.3000e-004	0.0000	1.5568	1.5568	5.0000e-005	1.4000e-004	1.6007

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
Total	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

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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
Total	3.4300e-003	0.0202	0.0314	1.6000e-004	0.0115	1.6000e-004	0.0116	3.1200e-003	1.4000e-004	3.2600e-003	0.0000	15.2328	15.2328	4.6000e-004	1.3800e-003	15.6565

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
Total	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

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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
Total	3.4300e-003	0.0202	0.0314	1.6000e-004	0.0115	1.6000e-004	0.0116	3.1200e-003	1.4000e-004	3.2600e-003	0.0000	15.2328	15.2328	4.6000e-004	1.3800e-003	15.6565

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
Total	0.2604	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

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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
Total	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

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
Total	0.2598	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

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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
Total	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

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
Total	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

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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
Total	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

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
Total	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

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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
Total	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

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	0.0000	0.0000	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		
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 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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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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5.2 Energy by Land Use - Natural Gas

Unmitigated

Natural Gas Use	KBTU/yr	tons/yr											MT/yr			
		CO ₂ e	CH ₄	N ₂ O	CO	SO ₂	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total		Bio-CO ₂	NBio-CO ₂	Total CO ₂
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
Warehouse-No Rail	2.2700e-003	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
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 ₂ e	CH ₄	N ₂ O	CO	SO ₂	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total		Bio-CO ₂	NBio-CO ₂	Total CO ₂
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
Warehouse-No Rail	2.2700e-003	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
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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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
Total		24.3531	1.4900e-003	1.8000e-004	24.4440

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
Total		24.3531	1.4900e-003	1.8000e-004	24.4440

6.0 Area Detail

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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
Total	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

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6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0260					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
Total	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

7.0 Water Detail

7.1 Mitigation Measures Water

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	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
Total		22.7046	0.2123	5.1300e-003	29.5410

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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
Total		22.7046	0.2123	5.1300e-003	29.5410

8.0 Waste Detail

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
Total		5.3427	0.3158	0.0000	13.2364

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
Total		5.3427	0.3158	0.0000	13.2364

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

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

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1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Refrigerated Warehouse-No Rail	25.14	1000sqft	0.58	25,137.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2023
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	539.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

- Project Characteristics -
- Land Use - Existign net building is 25,137 SF
- Construction Phase - no construction placeholder only
- Off-road Equipment - no construction
- Off-road Equipment - no construction placeholder only
- Trips and VMT - no construction trips placeholder only
- Demolition -
- Grading -
- Architectural Coating - no construction placeholder only
- Vehicle Trips - Project would maintian existing traffic. No additional trips expected due to remodel
- Vehicle Emission Factors - safe rule update
- Vehicle Emission Factors -

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Vehicle Emission Factors -

Area Coating - Rule 67 Paints expected for existing maintenance

Energy Use -

Construction Off-road Equipment Mitigation -

Fleet Mix -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	12,569.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	37,706.00	0.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	100
tblAreaCoating	Area_EF_Nonresidential_Interior	250	100
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstructionPhase	NumDays	5.00	1.00
tblLandUse	LandUseSquareFeet	25,140.00	25,137.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblTripsAndVMT	WorkerTripNumber	2.00	0.00
tblVehicleTrips	ST_TR	2.12	0.00
tblVehicleTrips	SU_TR	2.12	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					
2022	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2022	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)

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

		Highest	
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2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.1099	0.0000	2.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	4.5000e-004	4.5000e-004	0.0000	0.0000	4.8000e-004
Energy	9.5000e-004	8.6700e-003	7.2900e-003	5.0000e-005		6.6000e-004	6.6000e-004		6.6000e-004	6.6000e-004	0.0000	224.3783	224.3783	0.0133	1.7700e-003	225.2373
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	4.7967	0.0000	4.7967	0.2835	0.0000	11.8836
Water						0.0000	0.0000		0.0000	0.0000	1.8444	18.5411	20.3855	0.1906	4.6100e-003	26.5236
Total	0.1108	8.6700e-003	7.5200e-003	5.0000e-005	0.0000	6.6000e-004	6.6000e-004	0.0000	6.6000e-004	6.6000e-004	6.6411	242.9198	249.5609	0.4874	6.3800e-003	263.6449

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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	0.1099	0.0000	2.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	4.5000e-004	4.5000e-004	0.0000	0.0000	4.8000e-004
Energy	9.5000e-004	8.6700e-003	7.2900e-003	5.0000e-005		6.6000e-004	6.6000e-004		6.6000e-004	6.6000e-004	0.0000	224.3783	224.3783	0.0133	1.7700e-003	225.2373
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	4.7967	0.0000	4.7967	0.2835	0.0000	11.8836
Water						0.0000	0.0000		0.0000	0.0000	1.8444	18.5411	20.3855	0.1906	4.6100e-003	26.5236
Total	0.1108	8.6700e-003	7.5200e-003	5.0000e-005	0.0000	6.6000e-004	6.6000e-004	0.0000	6.6000e-004	6.6000e-004	6.6411	242.9198	249.5609	0.4874	6.3800e-003	263.6449

	ROG	NOx	CO	SO2	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	no construction placeholder only	Architectural Coating	12/1/2022	12/1/2022	5	1	

Acres of Grading (Site Preparation Phase): 0

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4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	0.0000	0.0000	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
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
Refrigerated Warehouse-No	9.50	7.30	7.30	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Refrigerated 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

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5.0 Energy Detail

Historical Energy Use: Y

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	214.9348	214.9348	0.0131	1.5900e-003	215.7376
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	214.9348	214.9348	0.0131	1.5900e-003	215.7376
NaturalGas Mitigated	9.5000e-004	8.6700e-003	7.2900e-003	5.0000e-005		6.6000e-004	6.6000e-004		6.6000e-004	6.6000e-004	0.0000	9.4435	9.4435	1.8000e-004	1.7000e-004	9.4996
NaturalGas Unmitigated	9.5000e-004	8.6700e-003	7.2900e-003	5.0000e-005		6.6000e-004	6.6000e-004		6.6000e-004	6.6000e-004	0.0000	9.4435	9.4435	1.8000e-004	1.7000e-004	9.4996

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5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Refrigerated Warehouse-No Rail	176964	9.5000e-004	8.6700e-003	7.2900e-003	5.0000e-005		6.6000e-004	6.6000e-004		6.6000e-004	6.6000e-004	0.0000	9.4435	9.4435	1.8000e-004	1.7000e-004	9.4996
Total		9.5000e-004	8.6700e-003	7.2900e-003	5.0000e-005		6.6000e-004	6.6000e-004		6.6000e-004	6.6000e-004	0.0000	9.4435	9.4435	1.8000e-004	1.7000e-004	9.4996

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					
Refrigerated Warehouse-No Rail	176964	9.5000e-004	8.6700e-003	7.2900e-003	5.0000e-005		6.6000e-004	6.6000e-004		6.6000e-004	6.6000e-004	0.0000	9.4435	9.4435	1.8000e-004	1.7000e-004	9.4996
Total		9.5000e-004	8.6700e-003	7.2900e-003	5.0000e-005		6.6000e-004	6.6000e-004		6.6000e-004	6.6000e-004	0.0000	9.4435	9.4435	1.8000e-004	1.7000e-004	9.4996

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5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Refrigerated Warehouse-No Rail	877533	214.9348	0.0131	1.5900e-003	215.7376
Total		214.9348	0.0131	1.5900e-003	215.7376

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Refrigerated Warehouse-No Rail	877533	214.9348	0.0131	1.5900e-003	215.7376
Total		214.9348	0.0131	1.5900e-003	215.7376

6.0 Area Detail

6.1 Mitigation Measures Area

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.1099	0.0000	2.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	4.5000e-004	4.5000e-004	0.0000	0.0000	4.8000e-004
Unmitigated	0.1099	0.0000	2.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	4.5000e-004	4.5000e-004	0.0000	0.0000	4.8000e-004

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0117					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0982					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.0000e-005	0.0000	2.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	4.5000e-004	4.5000e-004	0.0000	0.0000	4.8000e-004
Total	0.1098	0.0000	2.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	4.5000e-004	4.5000e-004	0.0000	0.0000	4.8000e-004

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6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0117					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0982					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.0000e-005	0.0000	2.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	4.5000e-004	4.5000e-004	0.0000	0.0000	4.8000e-004
Total	0.1098	0.0000	2.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	4.5000e-004	4.5000e-004	0.0000	0.0000	4.8000e-004

7.0 Water Detail

7.1 Mitigation Measures Water

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	20.3855	0.1906	4.6100e-003	26.5236
Unmitigated	20.3855	0.1906	4.6100e-003	26.5236

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Refrigerated Warehouse-No Rail	5.81363 / 0	20.3855	0.1906	4.6100e-003	26.5236
Total		20.3855	0.1906	4.6100e-003	26.5236

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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			
Refrigerated Warehouse-No Rail	5.81363 / 0	20.3855	0.1906	4.6100e-003	26.5236
Total		20.3855	0.1906	4.6100e-003	26.5236

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	4.7967	0.2835	0.0000	11.8836
Unmitigated	4.7967	0.2835	0.0000	11.8836

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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

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Refrigerated Warehouse-No Rail	23.63	4.7967	0.2835	0.0000	11.8836
Total		4.7967	0.2835	0.0000	11.8836

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Refrigerated Warehouse-No Rail	23.63	4.7967	0.2835	0.0000	11.8836
Total		4.7967	0.2835	0.0000	11.8836

9.0 Operational Offroad

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

10.0 Stationary Equipment

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
