



Appendix I2

Vehicle Miles Traveled Screening Assessment



January 13, 2022

Mr. Michael Johnson
LAKE CREEK INDUSTRIAL, LLC
1302 Brittany Cross Road
Santa Ana, California 92705

RE: Harvill Trailer Storage Yard Level of Service and Vehicle Miles Traveled Screening Assessment
Project No. 19365

Dear Mr. Johnson:

Ganddini Group, Inc. is pleased to provide this Level of Service and Vehicle Miles Traveled Screening Assessment for the proposed Harvill Trailer Storage Yard project in the County of Riverside. The purpose of this analysis is to assess potential level of service (LOS) impacts for general plan compliance and vehicle miles traveled (VMT) impacts associated with the proposed project for compliance with California Environmental Quality Act (CEQA) requirements. We trust the findings of this analysis will aid you and the County of Riverside in assessing the project.

PROJECT DESCRIPTION

The 7.24-acre project site is located at the northwest corner of Harvill Avenue and Orange Avenue the County of Riverside, California. The proposed project involves construction of a 15,000 square foot maintenance building for a surface trailer storage yard with 167 trailer stalls and 38 vehicle parking stalls. Vehicular access is proposed at Orange Avenue. The project site plan is provided in Attachment A.

PROJECT TRIPS

Since the Institute of Transportation Engineers (ITE) *Trip Generation Manual* (11th Edition, 2021) does not include data specifically for truck trailer parking facilities, trip generation for the proposed project was calculated based on rates derived from trip counts at a comparable trailer storage yard facility located at 5087 Patterson Avenue in the City of Perris, California. The number of trips entering and exiting the survey site were counted on January 23, 2019; count worksheets are provided in Attachment B. Trip rates were calculated for passenger cars based on the number of passenger car parking spaces and for trucks by axle (2-axle tractor, 3-axle tractor, and 4+ axle tractor with attached trailer) based on the number of trailer parking spaces.

Table 1 shows the project trip generation. The project trip generation is shown in both vehicle trips and Passenger Car Equivalent (PCE) trips. In accordance with County of Riverside guidelines, truck-oriented projects should convert truck trips to PCE trips for purposes of capacity analysis. The project-generated truck trips were converted to PCE trips based on the PCE factors recommended by the County of Riverside (1.5 for 2-axle trucks, 2.0 for 3-axle trucks, and 3.0 for trucks with 4 or more axles).

As also shown in Table 1, the proposed project is forecast to generate approximately 396 daily vehicle trips, including 24 vehicle trips during the AM peak hour and 26 vehicle trips during the PM peak hour, which

Mr. Michael Johnson
LAKE CREEK INDUSTRIAL, LLC
January 13, 2022

equates to approximately 598 daily PCE trips, including 37 PCE trips during the AM peak hour and 35 PCE trips during the PM peak hour.

CRITERIA FOR THE PREPARATION OF TRAFFIC IMPACT ANALYSES

The project has been screened for both level of service analysis and vehicle miles traveled analysis using the County of Riverside established criteria, as specified in the County of Riverside *Transportation Analysis Guidelines* (December 2020) ["the County guidelines"].

LEVEL OF SERVICE SCREENING CRITERIA (NON-CEQA/GENERAL PLAN CONFORMITY)

As specified in the County guidelines, Appendix B, the following types of development proposals are generally exempt from the requirement to prepare a Level of Service (LOS) transportation impact analysis:

10. Any use which can demonstrate, based on the most recent edition of the Trip Generation Report published by the Institute of Transportation Engineers (ITE) or other approved trip generation data, trip generation of less than 100 vehicle trips during the peak hours.

These exemptions will apply in most cases; however, the Transportation Department reserves the right to require a traffic analysis for any development regardless of size and/or type.

Although the proposed project is forecast to generate fewer than 100 trips during the weekday AM and PM peak hours, and would thereby typically be exempt from preparation of a transportation impact analysis with Level of Analysis based on criteria specified in the County of Riverside *Transportation Analysis Guidelines* (December 2020) ["the County guidelines"], County of Riverside engineering staff has requested preparation of a focused Level of Service analysis due to the community's sensitivity to truck generating uses. The requested analysis is provided in a separate document: *Harvill Trailer Storage Yard Focused Traffic Analysis* (Ganddini Group, Inc., January 2022).

VEHICLE MILES TRAVELED SCREENING CRITERIA (CEQA)

The VMT screening assessment has been prepared in accordance with the County guidelines, which were developed based on guidance from the Office of Planning and Research (OPR) *Technical Advisory on Evaluating Transportation Impacts in CEQA* (State of California, December 2018) ["OPR Technical Advisory"]. The County guidelines identify screening criteria for certain types of projects that typically reduce VMT and may be presumed to result in a less than significant VMT impact. The project need only satisfy one of the following screening criteria:

- Small Projects (generate less greenhouse gas emissions than threshold criteria)¹
- Projects near High Quality Transit
- Local Servicing Retail
- Affordable Housing
- Local Essential Service
- Map Based Screening
- Redevelopment Projects

To qualify for screening, a project needs to fulfill only one of the screening types listed.

¹ 3,000 MT CO₂e = South Coast Air Quality Management District (SCAQMD) threshold of greenhouse gas (GHG) emissions in Metric Tons of Carbon Dioxide Equivalent (MTCO₂e) per year which may be presumed to result in a less than significant VMT impact.

SMALL PROJECTS

The County TIA Guidelines identify the following types of projects that may be presumed to have a less than significant VMT impact as they are local serving and thus can be expected to reduce VMT or they are small enough to have a negligible impact:

- Existing projects or redevelopment of up to 10,000 additional square feet.²
- Projects generating less than 110 daily vehicle trips.³
- Projects generating greenhouse gas emissions less than 3,000 Metric Tons of Carbon Dioxide Equivalent (MTCO_{2e}) per year. This corresponds to the following “typical” development potentials:
 - 110 single family housing units
 - 147 multi-family (low rise), or 194 multi-family (high rise) units
 - 165,000 sq. ft. of office
 - 60,000 sq. ft. of retail
 - 179,000 sq. ft. of light industrial
 - 208,000 sq. ft. of warehousing
 - 79,000 sq. ft. of high cube transload and short-term storage warehouse

Greenhouse gas emissions for the proposed project were calculated in the *Harvill Trailer Storage Yard Project Air Quality, Global Climate Change, HRA, and Energy Impact Analysis (Ganddini Group, January 2022)* [“the Project AQ/GHG/Energy Study”]. For consistency with the County’s Department of Transportation methodology, GHG emissions were re-calculated using the rural trip lengths. A summary table of project-related greenhouse gas emissions and CalEEMod worksheets are provided in Attachment C. As documented in Attachment C, the proposed project’s total greenhouse gas emissions (without credit for any reductions from sustainable design and/or regulatory requirements) would be 1,342.9 MTCO_{2e} per year. Therefore, the proposed project satisfies the County-established small projects screening criteria for projects with GHG emissions less than 3,000 MTCO_{2e} per year and may be presumed to result in a less than significant VMT impact.

CONCLUSIONS

Although the proposed project is forecast to generate fewer than 100 trips during the weekday AM and PM peak hours, and would thereby typically be exempt from preparation of a transportation impact analysis with Level of Analysis based on criteria specified in the County of Riverside *Transportation Analysis Guidelines (December 2020)* [“the County guidelines”], County of Riverside engineering staff has requested preparation of a focused Level of Service analysis due to the community’s sensitivity to truck generating uses. The requested analysis is provided in a separate document: *Harvill Trailer Storage Yard Focused Traffic Analysis (Ganddini Group, Inc., January 2022)*.

The proposed project’s total greenhouse gas emissions (without credit for any reductions from sustainable design and/or regulatory requirements) would be 1,342.9 MTCO_{2e} per year. Therefore, the proposed project

² As noted in OPR Technical Advisory, CEQA provides a categorical exemption for existing facilities and additions to existing structures up to 10,000 square feet so long as the project is in an area where public infrastructure is available to allow for maximum planning development and the project is not in an environmentally sensitive area (CEQA Guidelines, § 15301, subd. (e)(2)). Typical project types for which trip generation increases relatively linearly with building footprint (i.e., general office building, single tenant office building, office park, and business park) generate or attract an additional 110-124 trips per 10,000 square feet. Therefore, absent substantial evidence otherwise, it is reasonable to conclude that the addition of 110 or fewer trips could be considered not to lead to a significant impact.

³ The term vehicle refers to on-road passenger vehicles, specifically cars and light trucks. Heavy-duty trucks should only be included in a traffic impact analysis for modeling convenience and ease of calculation (e.g., where data provided combine auto and heavy freight VMT), but should not contribute to a finding of significant traffic (VMT) impact under any circumstances.

Mr. Michael Johnson
LAKE CREEK INDUSTRIAL, LLC
January 13, 2022

satisfies the County-established small projects screening criteria for projects with GHG emissions less than 3,000 MTCO_{2e} per year and may be presumed to result in a less than significant VMT impact.

It has been a pleasure to assist you with this project. Should you have any questions or if we can be of further assistance, please do not hesitate to call at (714) 795-3100.

Sincerely,
GANDDINI GROUP, INC.



Perrie Ilercil, P.E. (AZ)
Senior Engineer



Giancarlo Ganddini, PE, PTP
Principal

**Table 1
Project Trip Generation**

Trip Generation Rates ¹								
Trip Type	Unit ²	AM Peak Hour			PM Peak Hour			Daily
		In	Out	Total	In	Out	Total	
Passenger Car	PS	0.00	0.33	0.33	0.33	0.17	0.50	6.33
Bobtail Truck - 2 axle	PS	0.00	0.00	0.00	0.01	0.00	0.01	0.25
Bobtail Truck - 3 axle	PS	0.01	0.04	0.05	0.01	0.00	0.01	0.27
Bobtail Truck with Trailer (4+ Axle)	PS	0.01	0.00	0.01	0.00	0.02	0.02	0.41
Total Vehicle Trips		0.02	0.37	0.39	0.35	0.19	0.54	7.26

Project Trips Generated									
Trip Type	Quantity ³	Unit ²	AM Peak Hour			PM Peak Hour			Daily
			In	Out	Total	In	Out	Total	
Passenger Car	38	PS	0	13	13	13	6	19	241
Bobtail Truck - 2 axle	167	PS	0	0	0	2	0	2	42
Bobtail Truck - 3 axle	167	PS	2	7	9	2	0	2	45
Bobtail Truck with Trailer (4+ Axle)	167	PS	2	0	2	0	3	3	68
Total Vehicle Trips⁴			4	20	24	17	9	26	396
Passenger Car	1.0	PCE ⁵	0	13	13	13	6	19	241
Bobtail Truck - 2 axle	1.5	PCE ⁵	0	0	0	3	0	3	63
Bobtail Truck - 3 axle	2.0	PCE ⁵	4	14	18	4	0	4	90
Bobtail Truck with Trailer (4+ Axle)	3.0	PCE ⁵	6	0	6	0	9	9	204
Total PCE Trips			10	27	37	20	15	35	598

Notes:

- (1) Trip generation rates derived from trip counts at a comparable facility (5087 Patterson Avenue, Perris, CA) in January 2019.
- (2) PS = Parking Spaces; PCE = passenger car equivalent.
- (3) Quantity of parking spaces based on the Site Plan dated 10/12/2021.
- (4) Total vehicle trips are shown as vehicle trip-ends.
- (5) PCE factors are based on the *County of Riverside Transportation Analysis Guidelines* (December 2020).

ATTACHMENT A

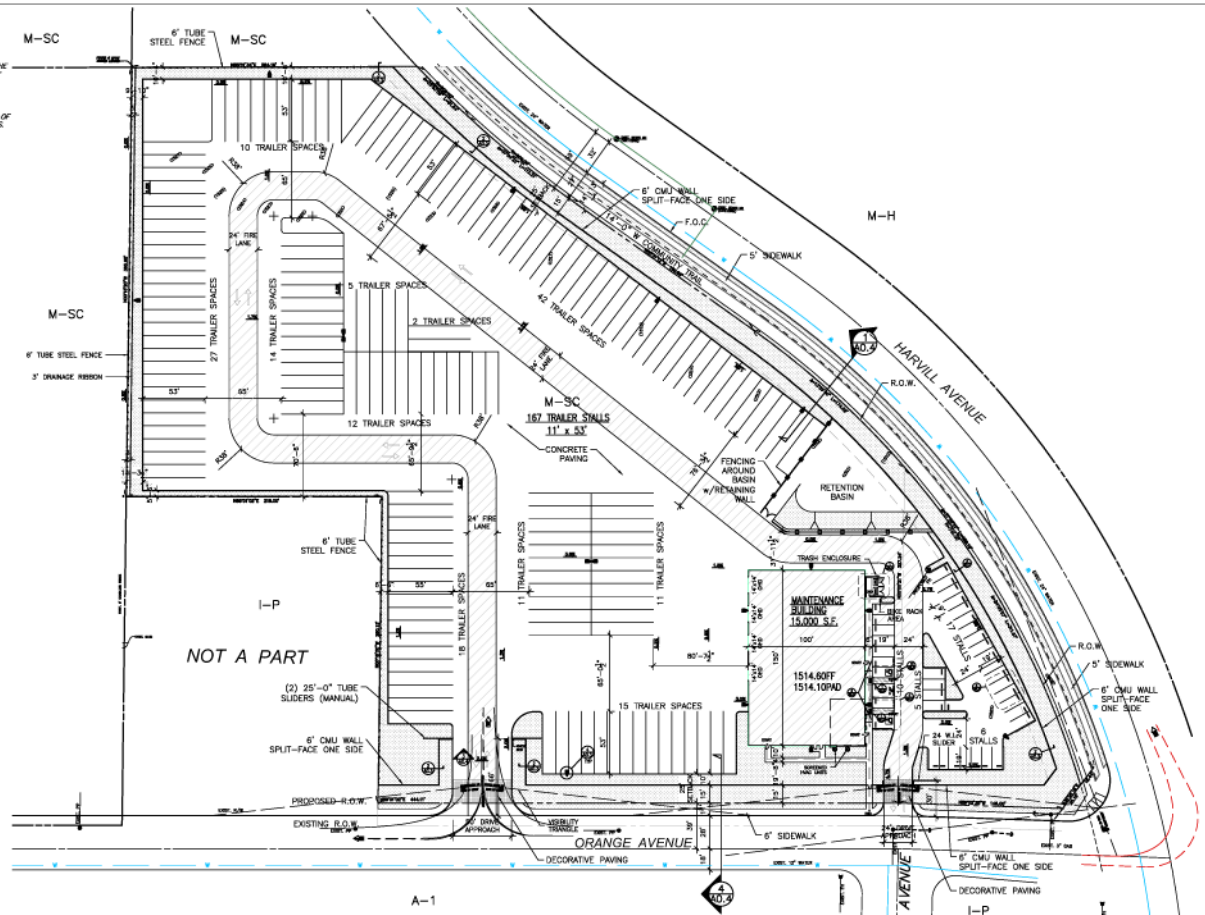
SITE PLAN

EASEMENT NOTES:
 (THE FOLLOWING EASEMENTS AND AGREEMENTS REFERENCE THE ITEM NUMBERS SHOWN IN THE TITLE REPORT DATED 12/11/2020, ORDER NUMBER MCS-1016275-DWTL, PREPARED BY FIRST AMERICAN TITLE INSURANCE COMPANY.)

1-11 NOT A SURVEY MATTER.
 AN EASEMENT FOR A STORM DRAIN AND INCIDENTAL PURPOSES, IN FAVOR OF THE COUNTY OF RIVERSIDE, RECORDED FEBRUARY 24, 1982 AS INSTRUMENT NO. 61757 OF OFFICIAL RECORDS.
 13-19 NOT A SURVEY MATTER.

ASSESSORS PARCEL NUMBER:
 355-000-048 & 317-270-013

OCCUPANT LOAD
 BUILDING OCCUPANCY: B, S-1
 B OCC 1/100 = 24.00 OCC
 S-1 OCC 1/300 = 49.33 OCC
 TOTAL (73.33) 74 OCC



SITE PLAN
 SCALE: 1" = 50'

- LEGEND**
- FH PROPOSED FIRE HYDRANT
 - EH EXISTING FIRE HYDRANT
 - PP EXISTING POWER POLES
 - LP EXISTING LIGHT POLES
 - PL PROPERTY LINE
 - CL CENTER LINE
 - C.L. CHAIN LINK
 - W.I. WROUGHT IRON
 - HP HIGH POINT
 - S SEWER LINE
 - W WATER LINE
 - PL PARCEL LINE
 - GRAVEL
 - LANDSCAPE
 - CONCRETE PAVING
 - RED CURB - FIRE LANE-NO PARKING

PREPARED BY: LORD CONSTRUCTORS, INC.
 1920 W. ELEVENTH STREET
 UPLAND, CA 91786
 PHONE: 909-846-8729
 FAX: 909-846-3029
 ATTN: KELLIE LOPEZ

OWNER: LAKE CREEK INDUSTRIAL, LLC
 1302 BRITANNY CROSS ROAD
 SANTA ANA, CA 92705
 ATTN: BOB KUBICHEK

SUMMARY LOT COVERAGE

LAND AREA (7.24 acres)	315,176 S.F. NET
	320,385 S.F. GROSS
BUILDING FOOTPRINT	15,000 S.F.
F.A.R. (Based on Footprints)	0.05
AC PAVING	255,056 S.F. 81%
ON-SITE LANDSCAPE	59,500 S.F. 18%
OFF-SITE LANDSCAPE	28,491 S.F. 8%
MAX BUILDING HEIGHT	27'-6"
ZONING	M-SC
GENERAL PLAN	INDUSTRIAL PARK

BUILDING AREA:

1st FLOOR OFFICE	1,200 S.F.
2nd FLOOR OFFICE	1,200 S.F.
MAINTENANCE FACILITY	13,600 S.F.
TOTAL	16,000 S.F.

PARKING REQUIRED:

1st FLOOR OFFICE (1,200/250)	5 SPACES
2nd FLOOR OFFICE (1,200/250)	5 SPACES
MAINTENANCE FACILITY (1,3600/500)	28 SPACES
TOTAL	38 SPACES

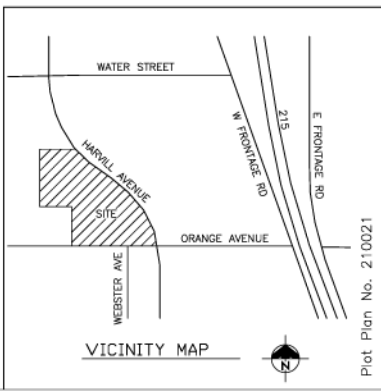
PARKING PROVIDED:

HANDICAP	2 SPACES
EV/CLEAN AIR STANDARD	3 SPACES
TOTAL	36 SPACES

UTILITIES:

- WATER:** WESTERN MUNICIPAL WATER DISTRICT, 14205 MERIDIAN PHWY, RIVERSIDE, CA 92518 (951) 371-7000
- SEWER:** WESTERN MUNICIPAL WATER DISTRICT, 14205 MERIDIAN PHWY, RIVERSIDE, CA 92518 (951) 371-7000
- ELECTRIC:** SOUTHERN CALIFORNIA EDISON, P.O. BOX 998, RIALTO, CA 92376 (909) 875-6420
- GAS:** SO. CAL GAS, 18231 VALLEY BLVD, FONTANA, CA 92335, MARSA AVILA (909) 428-8407
- TELEPHONE:** SO. CAL TELEPHONE COMPANY, 27515 ENTERPRISE CIRCLE WEST, TEMECULA, CA 92590 (800) 840-6873
- CABLE T.V.:** NO SERVICE

- SITE NOTES**
- FINISH GRADE AROUND THE STRUCTURE SHALL SLOPE AWAY FROM THE FOUNDATION AT A MINIMUM OF 0.06 FOR A MINIMUM DISTANCE OF 10 FEET.
 - ON GRADED SITES, THE TOP OF ANY EXTERIOR FOUNDATION DETAIL SHALL EXTEND ABOVE THE ELEVATION OF THE STREET CUTTER AT POINT OF DISCHARGE AT THE INLET OF AN APPROVED DRAINAGE DEVICE A MINIMUM 12 INCHES PLUS 2% GSC 180B.7.4 (SEE GRADING PLANS FOR ELEVATIONS)
 - LOCATED WITHIN CRITERIA CELL #2529 OF THE WRMNSHIP
 - SUSCEPTIBLE TO SUBSIDENCE
 - HIGH SENSITIVITY (HIGH S) TO PALEONTOLOGICAL RESOURCES
 - LOCATED IN SPECIFIC PLAN NO. 100 STREET "A"
 - NO OUTSIDE STORAGE OR OUTSIDE SERVICING OF TRUCKS OR ANY VEHICLES TO BE ALLOWED ON THE PROJECT SITE.
 - NO ROOF TOP EQUIPMENT PROPOSED



REVISIONS

LORD CONSTRUCTORS, INC.
 1920 West Eleventh Street
 Upland, California 91786
SCALE: 1" = 50' (AS SHOWN ON THIS PLAN) UNLESS OTHERWISE SPECIFIED

Van Dam Engineering
 P.O. BOX 1769
 Upland, California 91785
SCALE: 1" = 50' (AS SHOWN ON THIS PLAN) UNLESS OTHERWISE SPECIFIED

DESIGN PLANS FOR:
LAKE CREEK INDUSTRIAL, LLC
 ORANGE AVENUE
 RIVERSIDE, CA

DRAWING TITLE:
SITE PLAN
 SCALE: 1" = 50'

Plot Plan No. 210021
 Date: 10/12/2021
 Drawn By: DH
 Job: LEI
 Job No.: L-900
 ABC:
 Sheet:
A0.1
 of Sheets

ATTACHMENT B

**TRIP GENERATION DATA
FOR 5087 PATTERSON AVENUE**



City: Perris
Location: 5087 Patterson Avenue

Date: 1/23/2019
Count Type: Classification

Time	Entering						Entering Hourly
	Pass Veh	Large 2 Axle	3 Axle	4 Axle	5+ Axle	15-min Total	
0:00	0	0	0	0	0	0	1
0:15	0	0	0	0	0	0	2
0:30	0	0	0	0	0	0	2
0:45	1	0	0	0	0	1	2
1:00	1	0	0	0	0	1	2
1:15	0	0	0	0	0	0	1
1:30	0	0	0	0	0	0	1
1:45	0	0	1	0	0	1	1
2:00	0	0	0	0	0	0	0
2:15	0	0	0	0	0	0	0
2:30	0	0	0	0	0	0	0
2:45	0	0	0	0	0	0	0
3:00	0	0	0	0	0	0	0
3:15	0	0	0	0	0	0	0
3:30	0	0	0	0	0	0	0
3:45	0	0	0	0	0	0	0
4:00	0	0	0	0	0	0	0
4:15	0	0	0	0	0	0	0
4:30	0	0	0	0	0	0	0
4:45	0	0	0	0	0	0	0
5:00	0	0	0	0	0	0	0
5:15	0	0	0	0	0	0	1
5:30	0	0	0	0	0	0	2
5:45	0	0	0	0	0	0	3
6:00	1	0	0	0	0	1	8
6:15	0	0	0	0	1	1	7
6:30	0	0	0	0	1	1	7
6:45	2	0	0	0	3	5	7
7:00	0	0	0	0	0	0	2
7:15	0	0	1	0	0	1	4
7:30	0	0	0	0	1	1	3
7:45	0	0	0	0	0	0	2
8:00	2	0	0	0	0	2	3
8:15	0	0	0	0	0	0	4
8:30	0	0	0	0	0	0	4
8:45	0	1	0	0	0	1	4
9:00	1	0	0	1	1	3	4
9:15	0	0	0	0	0	0	1
9:30	0	0	0	0	0	0	1
9:45	1	0	0	0	0	1	1
10:00	0	0	0	0	0	0	0
10:15	0	0	0	0	0	0	1
10:30	0	0	0	0	0	0	3
10:45	0	0	0	0	0	0	6
11:00	0	0	0	0	1	1	6
11:15	0	0	1	0	1	2	6

Time	Exiting						Exiting Hourly	Hourly Total
	Pass Veh	Large 2 Axle	3 Axle	4 Axle	5+ Axle	15-min Total		
0:00	0	0	0	0	0	0	0	1
0:15	0	0	0	0	0	0	0	2
0:30	0	0	0	0	0	0	0	2
0:45	0	0	0	0	0	0	0	2
1:00	0	0	0	0	0	0	0	2
1:15	0	0	0	0	0	0	1	2
1:30	0	0	0	0	0	0	1	2
1:45	0	0	0	0	0	0	1	2
2:00	0	0	1	0	0	1	1	1
2:15	0	0	0	0	0	0	1	1
2:30	0	0	0	0	0	0	2	2
2:45	0	0	0	0	0	0	2	2
3:00	1	0	0	0	0	1	2	2
3:15	1	0	0	0	0	1	1	1
3:30	0	0	0	0	0	0	0	0
3:45	0	0	0	0	0	0	0	0
4:00	0	0	0	0	0	0	0	0
4:15	0	0	0	0	0	0	0	0
4:30	0	0	0	0	0	0	0	0
4:45	0	0	0	0	0	0	0	0
5:00	0	0	0	0	0	0	0	0
5:15	0	0	0	0	0	0	0	1
5:30	0	0	0	0	0	0	0	2
5:45	0	0	0	0	0	0	2	5
6:00	0	0	0	0	0	0	2	10
6:15	0	0	0	0	0	0	6	13
6:30	1	0	1	0	0	2	8	15
6:45	0	0	0	0	0	0	7	14
7:00	1	0	3	0	0	4	7	9
7:15	1	0	1	0	0	2	4	8
7:30	0	0	1	0	0	1	3	6
7:45	0	0	0	0	0	0	2	4
8:00	0	1	0	0	0	1	3	6
8:15	1	0	0	0	0	1	2	6
8:30	0	0	0	0	0	0	2	6
8:45	0	1	0	0	0	1	3	7
9:00	0	0	0	0	0	0	3	7
9:15	1	0	0	0	0	1	4	5
9:30	0	1	0	0	0	1	3	4
9:45	0	0	1	0	0	1	2	3
10:00	1	0	0	0	0	1	1	1
10:15	0	0	0	0	0	0	0	1
10:30	0	0	0	0	0	0	1	4
10:45	0	0	0	0	0	0	3	9
11:00	0	0	0	0	0	0	5	11
11:15	0	0	1	0	0	1	6	12

Counts Unlimited, Inc.
PO Box 1178
Corona, CA 92878
(951) 268-6268



City: Perris
Location: 5087 Patterson Avenue

Date: 1/23/2019
Count Type: Classification

Time	Entering						Entering Hourly
	Pass Veh	Large 2 Axle	3 Axle	4 Axle	5+ Axle	15-min Total	
11:30	0	1	1	0	1	3	7
11:45	0	0	0	0	0	0	6
12:00	0	1	0	0	0	1	7
12:15	0	1	0	0	2	3	8
12:30	0	2	0	0	0	2	5
12:45	0	0	0	0	1	1	7
13:00	0	0	1	0	1	2	6
13:15	0	0	0	0	0	0	7
13:30	1	0	0	2	1	4	7
13:45	0	0	0	0	0	0	3
14:00	1	0	0	0	2	3	3
14:15	0	0	0	0	0	0	1
14:30	0	0	0	0	0	0	1
14:45	0	0	0	0	0	0	1
15:00	1	0	0	0	0	1	3
15:15	0	0	0	0	0	0	3
15:30	0	0	0	0	0	0	3
15:45	0	0	0	0	2	2	4
16:00	0	0	0	1	0	1	2
16:15	0	0	0	0	0	0	2
16:30	1	0	0	0	0	1	4
16:45	0	0	0	0	0	0	3
17:00	0	1	0	0	0	1	5
17:15	1	1	0	0	0	2	5
17:30	0	0	0	0	0	0	5
17:45	0	1	1	0	0	2	8
18:00	1	0	0	0	0	1	7
18:15	0	0	0	0	2	2	7
18:30	0	0	0	0	3	3	5
18:45	0	1	0	0	0	1	4
19:00	0	1	0	0	0	1	6
19:15	0	0	0	0	0	0	5
19:30	1	0	0	1	0	2	6
19:45	2	0	0	0	1	3	7
20:00	0	0	0	0	0	0	6
20:15	0	1	0	0	0	1	7
20:30	0	2	1	0	0	3	6
20:45	1	1	0	0	0	2	3
21:00	0	0	1	0	0	1	4
21:15	0	0	0	0	0	0	6
21:30	0	0	0	0	0	0	7
21:45	0	2	0	0	1	3	7
22:00	0	2	1	0	0	3	5
22:15	0	0	0	1	0	1	6
22:30	0	0	0	0	0	0	5
22:45	0	1	0	0	0	1	5

Midday

PM Peak

post-PM

Time	Exiting						Exiting Hourly	Hourly Total
	Pass Veh	Large 2 Axle	3 Axle	4 Axle	5+ Axle	15-min Total		
11:30	0	0	2	0	0	2	7	14
11:45	0	0	0	1	1	2	7	13
12:00	0	0	1	0	0	1	5	12
12:15	0	0	0	2	0	2	9	17
12:30	0	0	2	0	0	2	8	13
12:45	0	0	0	0	0	0	8	15
13:00	1	0	2	2	0	5	10	16
13:15	0	0	1	0	0	1	6	13
13:30	1	0	1	0	0	2	5	12
13:45	0	2	0	0	0	2	4	7
14:00	0	0	1	0	0	1	2	5
14:15	0	0	0	0	0	0	1	2
14:30	0	0	1	0	0	1	2	3
14:45	0	0	0	0	0	0	1	2
15:00	0	0	0	0	0	0	2	5
15:15	1	0	0	0	0	1	3	6
15:30	0	0	0	0	0	0	3	6
15:45	0	0	1	0	0	1	4	8
16:00	0	0	1	0	0	1	3	5
16:15	0	1	0	0	0	1	3	5
16:30	1	0	0	0	0	1	4	8
16:45	0	0	0	0	0	0	3	6
17:00	0	0	0	1	0	1	4	9
17:15	1	0	0	1	0	2	4	9
17:30	0	0	0	0	0	0	2	7
17:45	0	0	0	1	0	1	6	14
18:00	0	0	0	0	1	1	8	15
18:15	0	0	0	0	0	0	8	15
18:30	2	2	0	0	0	4	9	14
18:45	0	1	2	0	0	3	5	9
19:00	0	0	0	0	1	1	3	9
19:15	0	0	0	1	0	1	4	9
19:30	0	0	0	0	0	0	4	10
19:45	0	1	0	0	0	1	6	13
20:00	1	0	1	0	0	2	7	13
20:15	0	0	0	1	0	1	7	14
20:30	0	1	0	1	0	2	6	12
20:45	0	0	0	1	1	2	5	8
21:00	2	0	0	0	0	2	4	8
21:15	0	0	0	0	0	0	5	11
21:30	0	0	1	0	0	1	7	14
21:45	0	0	0	0	1	1	7	14
22:00	0	0	1	2	0	3	7	12
22:15	0	0	1	0	1	2	5	11
22:30	0	1	0	0	0	1	6	11
22:45	0	0	0	1	0	1	5	10

Counts Unlimited, Inc.
PO Box 1178
Corona, CA 92878
(951) 268-6268



City: Perris
 Location: 5087 Patterson Avenue

Date: 1/23/2019
 Count Type: Classification

Time	Entering						Entering Hourly
	Pass Veh	Large 2 Axle	3 Axle	4 Axle	5+ Axle	15-min Total	
23:00	0	2	0	1	1	4	4
23:15	0	0	0	0	0	0	Max Hourly Enter
23:30	0	0	0	0	0	0	
23:45	0	0	0	0	0	0	
TOTAL	19	22	9	7	27	84	8

Time	Exiting						Exiting Hourly	Hourly Total
	Pass Veh	Large 2 Axle	3 Axle	4 Axle	5+ Axle	15-min Total		
23:00	0	1	0	0	0	1	5	9
23:15	0	0	1	1	1	3	Max Hourly Exit	Max Hourly Total
23:30	0	0	0	0	0	0		
23:45	1	0	0	0	0	1		
TOTAL	19	13	29	16	7	84	10	17

Enter		
Car	Truck Only	Truck+Trailer
19	22	9
		34

Enter			Daily Total
Car	Truck Only	Truck+Trailer	
19	13	29	168

Trip Type	6:30 AM			7:00 AM			5:15 PM			6:15 PM			Daily
	Pre-AM Peak Hour			AM Peak Hour			PM Peak Hour			Post-PM Peak Hour			
	In	Out	Total	In	Out	Total	In	Out	Total	In	Out	Total	
Passenger Car	2	3	5	0	2	2	2	1	3	0	2	3	38
Bobtail Truck (2 axle)	0	0	0	0	0	0	2	0	2	2	3	4	35
Bobtail Truck (3 axle)	1	5	6	1	5	6	1	0	1	0	2	2	38
Bobtail Truck-Trailer (4+ axle)	4	0	4	1	0	1	0	3	3	5	1	6	57
Total Vehicle+Trailer Trips	7	8	15	2	7	9	5	4	9	7	8	15	168

Counts Unlimited, Inc.
 PO Box 1178
 Corona, CA 92878
 (951) 268-6268

Table 2
Observed Similar Site Trip Generation Rates Estimated Based on Traffic Count Data

Similar Site Operational Characteristics - 5087 Patterson Avenue, Perris, CA	
Number of Trailer Parking Spaces	140
Number of Passenger Car Parking Spaces	6

Observed Peak Hour Site Traffic Count Summary ¹									
Trip Type	Quantity ²		AM Peak Hour			PM Peak Hour			Daily
			In	Out	Total	In	Out	Total	
Passenger Car	6	PS	0	2	2	2	1	3	38
Bobtail Truck (2 axle)	140	PS	0	0	0	2	0	2	35
Bobtail Truck (3 axle)	140	PS	1	5	6	1	0	1	38
Bobtail Truck-Trailer (4+ axle)	140	PS	1	0	1	0	3	3	57
Total Vehicle+Trailer Trips			2	7	9	5	4	9	168

Observed Similar Site Trip Generation Rates Based on Traffic Count Data									
Trip Type	Unit ²		AM Peak Hour			PM Peak Hour			Daily
			In	Out	Total	In	Out	Total	
Passenger Car	PS		0.00	0.33	0.33	0.33	0.17	0.50	6.33
Bobtail Truck (2 axle)	PS		0.00	0.00	0.00	0.01	0.00	0.01	0.25
Bobtail Truck (3 axle)	PS		0.01	0.04	0.05	0.01	0.00	0.01	0.27
Bobtail Truck-Trailer (4+ axle)	PS		0.01	0.00	0.01	0.00	0.02	0.02	0.41
Total Vehicle+Trailer Trips			0.02	0.37	0.39	0.35	0.19	0.54	7.26

Notes:

⁽¹⁾ Observed 24-Hour and peak hour site traffic count summary at 5087 Patterson Avenue, Perris, CA (January 23, 2019).

⁽²⁾ PS = Parking Spaces

ATTACHMENT C

GREENHOUSE GAS EMISSIONS TABLE AND WORKSHEETS

**Table 21 (Rural)
Project-Related Greenhouse Gas Emissions**

Category	Greenhouse Gas Emissions (Metric Tons/Year)					
	Bio-CO2	NonBio-CO2	CO2	CH4	N2O	CO2e
Area Sources ¹	0.00	0.01	0.01	0.00	0.00	0.01
Energy Usage ²	0.00	72.28	72.28	0.00	0.00	72.68
Mobile Sources ³	0.00	1,198.54	1,198.54	0.03	0.13	1,237.25
Waste ⁴	4.08	0.00	4.08	0.24	0.00	10.10
Water ⁵	1.19	8.65	9.84	0.12	0.00	13.79
Construction ⁶	0.00	8.95	8.95	0.00	0.00	9.07
Total Emissions	5.27	1,288.43	1,293.70	0.40	0.13	1,342.90
County of Riverside CAP Update Screening Threshold						3,000
Exceeds Threshold?						No

Notes:

Source: CalEEMod Version 2020.4.0 for Opening Year 2022.

- (1) Area sources consist of GHG emissions from consumer products, architectural coatings, and landscape equipment.
- (2) Energy usage consist of GHG emissions from electricity and natural gas usage.
- (3) Mobile sources consist of GHG emissions from vehicles.
- (4) Solid waste includes the CO₂ and CH₄ emissions created from the solid waste placed in landfills.
- (5) Water includes GHG emissions from electricity used for transport of water and processing of wastewater.
- (6) Construction GHG emissions CO₂e based on a 30 year amortization rate.

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

**19365 Harvill Trailer Storage Yard
Riverside-South Coast County, Annual**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	16.20	1000sqft	0.34	16,200.00	0
Other Non-Asphalt Surfaces	1.04	Acre	1.04	45,302.40	0
Parking Lot	205.00	Space	5.86	255,056.00	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.4	Precipitation Freq (Days)	28
Climate Zone	10			Operational Year	2022
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	390.98	CH4 Intensity (lb/MW hr)	0.033	N2O Intensity (lb/MW hr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - 7.24 ac w/ 16.2 TSF (w/ 15 TSF footprint) warehouse/office, 205 parkg spaces (includes 167 trailer stalls & 38 vehicle stalls) with paving covering ~255.056 TSF, & rmndr ~1.04 acs landscaping.

Construction Phase - Construction anticipated to begin June 2022 & be completed by mid-November 2022.

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment - Site prep of ~0.72 ac (~10% of site) to remove existing trees & concrete slabs; therefore, per CalEEMod User's Guide, ~2 pieces of equipment needed for a 1-acre site.

Trips and VMT - ~2 vendor trips added to site prep to account for water truck use.

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Demolition -

Grading - Site anticipated to balance. Site prep to remove existing trees & concrete slabs, includes ~40 CY of concrete to be crushed.

Vehicle Trips - Per Trip Gen & VMT Analysis, project to generate 396 trips. 396 trips/16.2 TSF = 24.44trips/TSF/day. CalEEMod default distances & percentages utilized as truck trips are anticipated to be local.

Sequestration - 89 new trees to be planted on-site.

Construction Off-road Equipment Mitigation -

Mobile Land Use Mitigation -

Energy Mitigation -

Water Mitigation - 20% reduction indoor water use per CalGreen standards.

Waste Mitigation -

Fleet Mix - Revised vehicle fleet mix per Trip Gen & VMT Analysis of 60.86% Autos, 10.61% 2-Axle Trucks, 11.36% 3-Axle Trucks and 17.17% 4+ Axle Trucks.

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	230.00	85.00
tblConstructionPhase	PhaseEndDate	5/30/2023	11/8/2022
tblConstructionPhase	PhaseEndDate	6/27/2023	10/28/2022
tblConstructionPhase	PhaseEndDate	7/25/2023	11/15/2022
tblConstructionPhase	PhaseStartDate	5/31/2023	10/1/2022
tblConstructionPhase	PhaseStartDate	6/28/2023	10/19/2022
tblFleetMix	HHD	0.02	0.17
tblFleetMix	LDA	0.53	0.35
tblFleetMix	LDT1	0.06	0.04
tblFleetMix	LDT2	0.17	0.11
tblFleetMix	LHD1	0.03	0.08
tblFleetMix	LHD2	7.4220e-003	0.02
tblFleetMix	MCY	0.02	0.02
tblFleetMix	MDV	0.14	0.09
tblFleetMix	MH	5.7590e-003	0.00
tblFleetMix	MHD	0.01 Apx-11	0.11

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tblFleetMix	OBUS	6.3000e-004	0.00
tblFleetMix	SBUS	1.1020e-003	0.00
tblFleetMix	UBUS	3.2100e-004	0.00
tblGrading	MaterialExported	0.00	40.00
tblLandUse	LandUseSquareFeet	82,000.00	255,056.00
tblLandUse	LotAcreage	0.37	0.34
tblLandUse	LotAcreage	1.84	5.86
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblSequestration	NumberOfNewTrees	0.00	89.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblVehicleTrips	ST_TR	1.99	24.44
tblVehicleTrips	SU_TR	5.00	24.44
tblVehicleTrips	WD_TR	4.96	24.44

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 Not Applied

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2022	0.2649	1.1806	1.3510	3.0000e-003	0.2122	0.0548	0.2670	0.0803	0.0513	0.1316	0.0000	268.6087	268.6087	0.0425	8.4400e-003	272.1851
Maximum	0.2649	1.1806	1.3510	3.0000e-003	0.2122	0.0548	0.2670	0.0803	0.0513	0.1316	0.0000	268.6087	268.6087	0.0425	8.4400e-003	272.1851

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	0.2649	1.1806	1.3510	3.0000e-003	0.1490	0.0548	0.2038	0.0491	0.0513	0.1004	0.0000	268.6086	268.6086	0.0425	8.4400e-003	272.1849
Maximum	0.2649	1.1806	1.3510	3.0000e-003	0.1490	0.0548	0.2038	0.0491	0.0513	0.1004	0.0000	268.6086	268.6086	0.0425	8.4400e-003	272.1849

	ROG	NOx	CO	SO2	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	29.79	0.00	23.67	38.81	0.00	23.69	0.00	0.00	0.00	0.00	0.00	0.00

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

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	6-1-2022	8-31-2022	0.6607	0.6607
2	9-1-2022	9-30-2022	0.2239	0.2239
		Highest	0.6607	0.6607

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	0.0899	3.0000e-005	2.8400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	5.5200e-003	5.5200e-003	1.0000e-005	0.0000	5.8800e-003
Energy	2.8200e-003	0.0257	0.0216	1.5000e-004		1.9500e-003	1.9500e-003		1.9500e-003	1.9500e-003	0.0000	72.2808	72.2808	4.2800e-003	9.7000e-004	72.6756
Mobile	0.2270	2.1319	2.5189	0.0127	0.7947	0.0285	0.8232	0.2175	0.0272	0.2447	0.0000	1,198.5381	1,198.5381	0.0281	0.1276	1,237.2512
Waste						0.0000	0.0000		0.0000	0.0000	4.0781	0.0000	4.0781	0.2410	0.0000	10.1033
Water						0.0000	0.0000		0.0000	0.0000	1.1885	8.6509	9.8394	0.1228	2.9700e-003	13.7948
Total	0.3198	2.1576	2.5433	0.0128	0.7947	0.0305	0.8252	0.2175	0.0292	0.2467	5.2666	1,279.4753	1,284.7419	0.3962	0.1315	1,333.8307

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

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0899	3.0000e-005	2.8400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	5.5200e-003	5.5200e-003	1.0000e-005	0.0000	5.8800e-003
Energy	2.8200e-003	0.0257	0.0216	1.5000e-004		1.9500e-003	1.9500e-003		1.9500e-003	1.9500e-003	0.0000	72.2808	72.2808	4.2800e-003	9.7000e-004	72.6756
Mobile	0.2270	2.1319	2.5189	0.0127	0.7947	0.0285	0.8232	0.2175	0.0272	0.2447	0.0000	1,198.538 1	1,198.538 1	0.0281	0.1276	1,237.251 2
Waste						0.0000	0.0000		0.0000	0.0000	4.0781	0.0000	4.0781	0.2410	0.0000	10.1033
Water						0.0000	0.0000		0.0000	0.0000	0.9508	6.9207	7.8715	0.0982	2.3800e-003	11.0358
Total	0.3198	2.1576	2.5433	0.0128	0.7947	0.0305	0.8252	0.2175	0.0292	0.2467	5.0289	1,277.745 1	1,282.774 0	0.3717	0.1309	1,331.071 7

	ROG	NOx	CO	SO2	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	4.51	0.14	0.15	6.20	0.45	0.21

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

2.3 Vegetation

Vegetation

	CO2e
Category	MT
New Trees	63.0120
Total	63.0120

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	6/1/2022	6/14/2022	5	10	
2	Grading	Grading	6/15/2022	7/12/2022	5	20	
3	Building Construction	Building Construction	7/13/2022	11/8/2022	5	85	
4	Paving	Paving	10/1/2022	10/28/2022	5	20	
5	Architectural Coating	Architectural Coating	10/19/2022	11/15/2022	5	20	

Acres of Grading (Site Preparation Phase): 5

Acres of Grading (Grading Phase): 20

Acres of Paving: 6.9

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 24,300; Non-Residential Outdoor: 8,100; Striped Parking Area: 18,022 (Architectural Coating – sqft)

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

OffRoad Equipment

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

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	2	5.00	2.00	5.00	19.80	7.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	19.80	7.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	133.00	52.00	0.00	19.80	7.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	19.80	7.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	27.00	0.00	0.00	19.80	7.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

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

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Site Preparation - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0328	0.0000	0.0328	0.0168	0.0000	0.0168	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.0100e-003	0.0524	0.0291	6.0000e-005		2.5400e-003	2.5400e-003		2.3300e-003	2.3300e-003	0.0000	5.1178	5.1178	1.6600e-003	0.0000	5.1592
Total	5.0100e-003	0.0524	0.0291	6.0000e-005	0.0328	2.5400e-003	0.0353	0.0168	2.3300e-003	0.0192	0.0000	5.1178	5.1178	1.6600e-003	0.0000	5.1592

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

3.2 Site Preparation - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.0000e-005	3.4000e-004	7.0000e-005	0.0000	4.0000e-005	0.0000	5.0000e-005	1.0000e-005	0.0000	2.0000e-005	0.0000	0.1392	0.1392	0.0000	2.0000e-005	0.1457
Vendor	2.0000e-005	4.9000e-004	1.6000e-004	0.0000	7.0000e-005	1.0000e-005	8.0000e-005	2.0000e-005	1.0000e-005	3.0000e-005	0.0000	0.1980	0.1980	0.0000	3.0000e-005	0.2068
Worker	1.1000e-004	9.0000e-005	1.1000e-003	0.0000	3.7000e-004	0.0000	3.7000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	0.2892	0.2892	1.0000e-005	1.0000e-005	0.2917
Total	1.4000e-004	9.2000e-004	1.3300e-003	0.0000	4.8000e-004	1.0000e-005	5.0000e-004	1.3000e-004	1.0000e-005	1.5000e-004	0.0000	0.6264	0.6264	1.0000e-005	6.0000e-005	0.6442

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					0.0128	0.0000	0.0128	6.5700e-003	0.0000	6.5700e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.0100e-003	0.0524	0.0291	6.0000e-005		2.5400e-003	2.5400e-003		2.3300e-003	2.3300e-003	0.0000	5.1178	5.1178	1.6600e-003	0.0000	5.1591
Total	5.0100e-003	0.0524	0.0291	6.0000e-005	0.0128	2.5400e-003	0.0153	6.5700e-003	2.3300e-003	8.9000e-003	0.0000	5.1178	5.1178	1.6600e-003	0.0000	5.1591

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

3.2 Site Preparation - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.0000e-005	3.4000e-004	7.0000e-005	0.0000	4.0000e-005	0.0000	5.0000e-005	1.0000e-005	0.0000	2.0000e-005	0.0000	0.1392	0.1392	0.0000	2.0000e-005	0.1457
Vendor	2.0000e-005	4.9000e-004	1.6000e-004	0.0000	7.0000e-005	1.0000e-005	8.0000e-005	2.0000e-005	1.0000e-005	3.0000e-005	0.0000	0.1980	0.1980	0.0000	3.0000e-005	0.2068
Worker	1.1000e-004	9.0000e-005	1.1000e-003	0.0000	3.7000e-004	0.0000	3.7000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	0.2892	0.2892	1.0000e-005	1.0000e-005	0.2917
Total	1.4000e-004	9.2000e-004	1.3300e-003	0.0000	4.8000e-004	1.0000e-005	5.0000e-004	1.3000e-004	1.0000e-005	1.5000e-004	0.0000	0.6264	0.6264	1.0000e-005	6.0000e-005	0.6442

3.3 Grading - 2022

Unmitigated Construction On-Site

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

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3.3 Grading - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.3000e-004	5.2000e-004	6.6000e-003	2.0000e-005	2.2200e-003	1.0000e-005	2.2300e-003	5.9000e-004	1.0000e-005	6.0000e-004	0.0000	1.7355	1.7355	4.0000e-005	5.0000e-005	1.7501
Total	6.3000e-004	5.2000e-004	6.6000e-003	2.0000e-005	2.2200e-003	1.0000e-005	2.2300e-003	5.9000e-004	1.0000e-005	6.0000e-004	0.0000	1.7355	1.7355	4.0000e-005	5.0000e-005	1.7501

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					0.0276	0.0000	0.0276	0.0134	0.0000	0.0134	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0195	0.2086	0.1527	3.0000e-004		9.4100e-003	9.4100e-003		8.6600e-003	8.6600e-003	0.0000	26.0547	26.0547	8.4300e-003	0.0000	26.2654
Total	0.0195	0.2086	0.1527	3.0000e-004	0.0276	9.4100e-003	0.0370	0.0134	8.6600e-003	0.0220	0.0000	26.0547	26.0547	8.4300e-003	0.0000	26.2654

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3.3 Grading - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.3000e-004	5.2000e-004	6.6000e-003	2.0000e-005	2.2200e-003	1.0000e-005	2.2300e-003	5.9000e-004	1.0000e-005	6.0000e-004	0.0000	1.7355	1.7355	4.0000e-005	5.0000e-005	1.7501
Total	6.3000e-004	5.2000e-004	6.6000e-003	2.0000e-005	2.2200e-003	1.0000e-005	2.2300e-003	5.9000e-004	1.0000e-005	6.0000e-004	0.0000	1.7355	1.7355	4.0000e-005	5.0000e-005	1.7501

3.4 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0725	0.6637	0.6954	1.1400e-003		0.0344	0.0344		0.0324	0.0324	0.0000	98.4832	98.4832	0.0236	0.0000	99.0731
Total	0.0725	0.6637	0.6954	1.1400e-003		0.0344	0.0344		0.0324	0.0324	0.0000	98.4832	98.4832	0.0236	0.0000	99.0731

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3.4 Building Construction - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.7900e-003	0.1081	0.0346	4.6000e-004	0.0160	1.5400e-003	0.0175	4.6100e-003	1.4700e-003	6.0800e-003	0.0000	43.7535	43.7535	4.5000e-004	6.4900e-003	45.6980
Worker	0.0239	0.0197	0.2488	7.1000e-004	0.0837	4.1000e-004	0.0841	0.0222	3.8000e-004	0.0226	0.0000	65.3976	65.3976	1.5300e-003	1.7200e-003	65.9481
Total	0.0277	0.1278	0.2833	1.1700e-003	0.0996	1.9500e-003	0.1016	0.0268	1.8500e-003	0.0287	0.0000	109.1511	109.1511	1.9800e-003	8.2100e-003	111.6461

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	0.0725	0.6637	0.6954	1.1400e-003		0.0344	0.0344		0.0324	0.0324	0.0000	98.4831	98.4831	0.0236	0.0000	99.0730
Total	0.0725	0.6637	0.6954	1.1400e-003		0.0344	0.0344		0.0324	0.0324	0.0000	98.4831	98.4831	0.0236	0.0000	99.0730

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3.4 Building Construction - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.7900e-003	0.1081	0.0346	4.6000e-004	0.0160	1.5400e-003	0.0175	4.6100e-003	1.4700e-003	6.0800e-003	0.0000	43.7535	43.7535	4.5000e-004	6.4900e-003	45.6980
Worker	0.0239	0.0197	0.2488	7.1000e-004	0.0837	4.1000e-004	0.0841	0.0222	3.8000e-004	0.0226	0.0000	65.3976	65.3976	1.5300e-003	1.7200e-003	65.9481
Total	0.0277	0.1278	0.2833	1.1700e-003	0.0996	1.9500e-003	0.1016	0.0268	1.8500e-003	0.0287	0.0000	109.1511	109.1511	1.9800e-003	8.2100e-003	111.6461

3.5 Paving - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0110	0.1113	0.1458	2.3000e-004		5.6800e-003	5.6800e-003		5.2200e-003	5.2200e-003	0.0000	20.0276	20.0276	6.4800e-003	0.0000	20.1895
Paving	7.6800e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0187	0.1113	0.1458	2.3000e-004		5.6800e-003	5.6800e-003		5.2200e-003	5.2200e-003	0.0000	20.0276	20.0276	6.4800e-003	0.0000	20.1895

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3.5 Paving - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.3000e-004	5.2000e-004	6.6000e-003	2.0000e-005	2.2200e-003	1.0000e-005	2.2300e-003	5.9000e-004	1.0000e-005	6.0000e-004	0.0000	1.7355	1.7355	4.0000e-005	5.0000e-005	1.7501
Total	6.3000e-004	5.2000e-004	6.6000e-003	2.0000e-005	2.2200e-003	1.0000e-005	2.2300e-003	5.9000e-004	1.0000e-005	6.0000e-004	0.0000	1.7355	1.7355	4.0000e-005	5.0000e-005	1.7501

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0110	0.1113	0.1458	2.3000e-004		5.6800e-003	5.6800e-003		5.2200e-003	5.2200e-003	0.0000	20.0275	20.0275	6.4800e-003	0.0000	20.1895
Paving	7.6800e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0187	0.1113	0.1458	2.3000e-004		5.6800e-003	5.6800e-003		5.2200e-003	5.2200e-003	0.0000	20.0275	20.0275	6.4800e-003	0.0000	20.1895

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3.5 Paving - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.3000e-004	5.2000e-004	6.6000e-003	2.0000e-005	2.2200e-003	1.0000e-005	2.2300e-003	5.9000e-004	1.0000e-005	6.0000e-004	0.0000	1.7355	1.7355	4.0000e-005	5.0000e-005	1.7501
Total	6.3000e-004	5.2000e-004	6.6000e-003	2.0000e-005	2.2200e-003	1.0000e-005	2.2300e-003	5.9000e-004	1.0000e-005	6.0000e-004	0.0000	1.7355	1.7355	4.0000e-005	5.0000e-005	1.7501

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	0.1169					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.0500e-003	0.0141	0.0181	3.0000e-005		8.2000e-004	8.2000e-004		8.2000e-004	8.2000e-004	0.0000	2.5533	2.5533	1.7000e-004	0.0000	2.5574
Total	0.1189	0.0141	0.0181	3.0000e-005		8.2000e-004	8.2000e-004		8.2000e-004	8.2000e-004	0.0000	2.5533	2.5533	1.7000e-004	0.0000	2.5574

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3.6 Architectural Coating - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.1400e-003	9.4000e-004	0.0119	3.0000e-005	4.0000e-003	2.0000e-005	4.0200e-003	1.0600e-003	2.0000e-005	1.0800e-003	0.0000	3.1238	3.1238	7.0000e-005	8.0000e-005	3.1501
Total	1.1400e-003	9.4000e-004	0.0119	3.0000e-005	4.0000e-003	2.0000e-005	4.0200e-003	1.0600e-003	2.0000e-005	1.0800e-003	0.0000	3.1238	3.1238	7.0000e-005	8.0000e-005	3.1501

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	0.1169					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.0500e-003	0.0141	0.0181	3.0000e-005		8.2000e-004	8.2000e-004		8.2000e-004	8.2000e-004	0.0000	2.5533	2.5533	1.7000e-004	0.0000	2.5574
Total	0.1189	0.0141	0.0181	3.0000e-005		8.2000e-004	8.2000e-004		8.2000e-004	8.2000e-004	0.0000	2.5533	2.5533	1.7000e-004	0.0000	2.5574

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3.6 Architectural Coating - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.1400e-003	9.4000e-004	0.0119	3.0000e-005	4.0000e-003	2.0000e-005	4.0200e-003	1.0600e-003	2.0000e-005	1.0800e-003	0.0000	3.1238	3.1238	7.0000e-005	8.0000e-005	3.1501
Total	1.1400e-003	9.4000e-004	0.0119	3.0000e-005	4.0000e-003	2.0000e-005	4.0200e-003	1.0600e-003	2.0000e-005	1.0800e-003	0.0000	3.1238	3.1238	7.0000e-005	8.0000e-005	3.1501

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	0.2270	2.1319	2.5189	0.0127	0.7947	0.0285	0.8232	0.2175	0.0272	0.2447	0.0000	1,198.538 1	1,198.538 1	0.0281	0.1276	1,237.251 2
Unmitigated	0.2270	2.1319	2.5189	0.0127	0.7947	0.0285	0.8232	0.2175	0.0272	0.2447	0.0000	1,198.538 1	1,198.538 1	0.0281	0.1276	1,237.251 2

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	395.93	395.93	395.93	1,985,370	1,985,370
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	395.93	395.93	395.93	1,985,370	1,985,370

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Light Industry	18.50	10.10	7.90	59.00	28.00	13.00	92	5	3
Other Non-Asphalt Surfaces	18.50	10.10	7.90	0.00	0.00	0.00	0	0	0
Parking Lot	18.50	10.10	7.90	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
General Light Industry	0.348710	0.036635	0.112937	0.094378	0.083430	0.022670	0.113600	0.171700	0.000000	0.000000	0.015940	0.000000	0.000000
Other Non-Asphalt Surfaces	0.531022	0.055789	0.171983	0.143721	0.027315	0.007422	0.011813	0.018850	0.000630	0.000321	0.024273	0.001102	0.005759

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Parking Lot	0.531022	0.055789	0.171983	0.143721	0.027315	0.007422	0.011813	0.018850	0.000630	0.000321	0.024273	0.001102	0.005759
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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	44.3317	44.3317	3.7400e-003	4.5000e-004	44.5604
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	44.3317	44.3317	3.7400e-003	4.5000e-004	44.5604
NaturalGas Mitigated	2.8200e-003	0.0257	0.0216	1.5000e-004		1.9500e-003	1.9500e-003		1.9500e-003	1.9500e-003	0.0000	27.9491	27.9491	5.4000e-004	5.1000e-004	28.1152
NaturalGas Unmitigated	2.8200e-003	0.0257	0.0216	1.5000e-004		1.9500e-003	1.9500e-003		1.9500e-003	1.9500e-003	0.0000	27.9491	27.9491	5.4000e-004	5.1000e-004	28.1152

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5.2 Energy by Land Use - Natural Gas

Unmitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Light Industry	523746	2.8200e-003	0.0257	0.0216	1.5000e-004		1.9500e-003	1.9500e-003		1.9500e-003	1.9500e-003	0.0000	27.9491	27.9491	5.4000e-004	5.1000e-004	28.1152
Other Non-Asphalt Surfaces	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
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		2.8200e-003	0.0257	0.0216	1.5000e-004		1.9500e-003	1.9500e-003		1.9500e-003	1.9500e-003	0.0000	27.9491	27.9491	5.4000e-004	5.1000e-004	28.1152

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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 Light Industry	523746	2.8200e-003	0.0257	0.0216	1.5000e-004		1.9500e-003	1.9500e-003		1.9500e-003	1.9500e-003	0.0000	27.9491	27.9491	5.4000e-004	5.1000e-004	28.1152
Other Non-Asphalt Surfaces	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
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		2.8200e-003	0.0257	0.0216	1.5000e-004		1.9500e-003	1.9500e-003		1.9500e-003	1.9500e-003	0.0000	27.9491	27.9491	5.4000e-004	5.1000e-004	28.1152

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5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Light Industry	160704	28.5001	2.4100e-003	2.9000e-004	28.6472
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	89269.6	15.8316	1.3400e-003	1.6000e-004	15.9132
Total		44.3317	3.7500e-003	4.5000e-004	44.5604

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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 Light Industry	160704	28.5001	2.4100e-003	2.9000e-004	28.6472
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	89269.6	15.8316	1.3400e-003	1.6000e-004	15.9132
Total		44.3317	3.7500e-003	4.5000e-004	44.5604

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	0.0899	3.0000e-005	2.8400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	5.5200e-003	5.5200e-003	1.0000e-005	0.0000	5.8800e-003
Unmitigated	0.0899	3.0000e-005	2.8400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	5.5200e-003	5.5200e-003	1.0000e-005	0.0000	5.8800e-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	0.0117					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0780					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.6000e-004	3.0000e-005	2.8400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	5.5200e-003	5.5200e-003	1.0000e-005	0.0000	5.8800e-003
Total	0.0899	3.0000e-005	2.8400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	5.5200e-003	5.5200e-003	1.0000e-005	0.0000	5.8800e-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	0.0117					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0780					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.6000e-004	3.0000e-005	2.8400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	5.5200e-003	5.5200e-003	1.0000e-005	0.0000	5.8800e-003
Total	0.0899	3.0000e-005	2.8400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	5.5200e-003	5.5200e-003	1.0000e-005	0.0000	5.8800e-003

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

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

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	7.8715	0.0982	2.3800e-003	11.0358
Unmitigated	9.8394	0.1228	2.9700e-003	13.7948

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Light Industry	3.74625 / 0	9.8394	0.1228	2.9700e-003	13.7948
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		9.8394	0.1228	2.9700e-003	13.7948

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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 Light Industry	2.997 / 0	7.8715	0.0982	2.3800e-003	11.0358
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		7.8715	0.0982	2.3800e-003	11.0358

8.0 Waste Detail

8.1 Mitigation Measures Waste

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Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	4.0781	0.2410	0.0000	10.1033
Unmitigated	4.0781	0.2410	0.0000	10.1033

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	20.09	4.0781	0.2410	0.0000	10.1033
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		4.0781	0.2410	0.0000	10.1033

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8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	20.09	4.0781	0.2410	0.0000	10.1033
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		4.0781	0.2410	0.0000	10.1033

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

	Total CO2	CH4	N2O	CO2e
Category	MT			
Unmitigated	63.0120	0.0000	0.0000	63.0120

11.2 Net New Trees

Species Class

	Number of Trees	Total CO2	CH4	N2O	CO2e
		MT			
Miscellaneous	89	63.0120	0.0000	0.0000	63.0120
Total		63.0120	0.0000	0.0000	63.0120