385 N. Arrowhead Ave, First Floor, San Bernardino, CA 92415 | Phone: 909.387.8311 Fax: 909.387.3223
www.SBCounty.gov

SAN BERNARDINO COUNTY

Land Use Services Department
Planning

Terri Rahhal
Director

August 20, 2021

Rob Swanson
Deputy Attorney General, Bureau of Environmental Justice
California Department of Justice
1300 I Street, 15th Floor
Sacramento, CA 95814

RE: CEDAR AVENUE TRUCK/TRAILER STORAGE ZONING AMENDMENT AND CONDITIONAL USE PERMIT; PROJ-2020-00035; APN: 0257-031-12

Dear Mr. Swanson,

Thank you for your correspondence concerning the Cedar Avenue Truck Project. The project application includes a change in zoning and therefore requires approval by the Board of Supervisors. The item was before the Planning Commission on July 22, 2021, and the Commission voted (3 in favor, 1 opposed, 1 recused) to recommend project approval and adoption of the MND to the Board of Supervisors. That subsequent hearing has not yet been scheduled.

Let me first provide clarification regarding the intent of the proposed project, which is not in fact a truck terminal in the traditional sense, or a truck stop as some members of the community assumed. The project would be responsive to community concerns by providing a storage facility for trailers that often are parked or stored in residential areas of Bloomington. The site would also provide overflow trailer storage for numerous nearby existing warehouse and distribution facilities and would very likely reduce regional vehicles miles traveled and idling times. The site is well situated close to the freeway and existing industrial warehouse uses. Drivers would enter the facility, proceed to the parking area, unhitch the trailer, and leave the facility. The project would not function as a truck stop by providing related facilities (overnight stays, showers). The facility would have up to 10 employees that would be responsible for facility maintenance, administrative duties, and related tasks. The facility includes an approximate 6,200 square-foot office/trailer repair building with employee breakroom. There are no sleeping facilities provided. Further, the project is not designed or intended to accommodate long-haul truckers with sleepers. Truck/trailers would not be occupied by drivers when stored at the facility. No showers, breakroom areas, or other such accommodating facilities are proposed as a part of the project.

The SCAQMD has reviewed the project and the HRA prepared subsequent to circulation of the Initial Study provided to them. Their review resulted in the attached August 5, 2021 letter; the County has also replied to that letter with no resulting changes of significance to the Initial Study/MND.

Although not included as an Appendix to the Initial Study, the CalEEMod output for air quality emissions was adequately summarized in the document. We have included the data you have requested as an attachment to this letter.

Lastly, the Traffic Impact Analysis for the project, prepared by Urban Crossroads, in June 2020 determined that the Proposed Project would generate approximately 716 total daily trips. With an 80% occupancy rate (standard for these types of operations), 572 daily two-way trips would result which equates to 236 one-way trips. Trips generated by the Project's proposed land uses have been estimated based on the trip generation statistics published in the City of San Diego Municipal Code Land Development Code Trip Generation Manual (2003) for Truck Terminal land use. Recent counts from a similar use in Jurupa Valley with over 350 trailer parking stalls shows significantly less truck trips – 135 4+ axle one-way trips. (See attached count sheets for 11215 Riverside Drive dated March 30, 2021).

Although the subsequent modeling for air quality emissions did not result in any new significant impacts, and therefore would not require the implementation of additional mitigation measures, the County has opted, out of an abundance of caution, to recirculate the Initial Study/MND for an additional 30-day period to continue to promote public input and informed decision making. In recirculating the IS/MND, the County will clarify the use as described above, and that only trailers will be stored on-site.

Given that all impacts have been mitigated to a level of less than significant, additional mitigation measures are not required. However, the County does intend to analyze the inclusion of additional conditions of approval to address concerns by commenters.

You will be included on the list of recipients of the Notice, Initial Study, and Supplemental data. Thank you for providing input and additional guidance to the County with respect the Project. If you have any questions or concerns, please contact me via phone at (909) 387-4110, or by email at: Heidi.Duron@lus.sbcounty.gov .

Sincerely,

Heidi Duron, Planning Director

Attachments: SCAQMD Response Letter dated August 5, 2021
CalEEMod Output Data
Count Sheets for 11215 Riverside Drive Dated March 30, 2021

South Coast
Air Quality Management District
21865 Copley Drive, Diamond Bar, CA 91765-4178
(909) 396-2000 • www.aqmd.gov

SENT VIA E-MAIL: August 5, 2021

Anthony.DeLuca@lus.sbcounty.gov
Anthony DeLuca, Senior Planner
County of San Bernardino, Land Use Services Department
385 North Arrowhead Avenue
San Bernardino, California 92415

Final Mitigated Negative Declaration (MND) for the Proposed Cedar Avenue Truck Terminal Project (Proposed Project)

South Coast Air Quality Management District (South Coast AQMD) staff appreciates the opportunity to comment on the above-mentioned document. The Proposed Project consists of construction and operation of a truck terminal that would include parking for 260 trucks and 14 vehicles on 8.95 acres. The County of San Bernardino (County) was the Lead Agency under the California Environmental Quality Act (CEQA) for the Proposed Project and prepared a MND, which was circulated for a 30-day public review and comment period from January 13, 2021 to February 11, 2021. South Coast AQMD staff became aware of the MND five months later on July 21, 2021. Because the MND was not sent to the South Coast AQMD before the close of public comment period, South Coast AQMD staff provided comments to the Lead Agency to request future CEQA documents and air quality technical appendices for review after they are completed and released for public review[1]. At the July 22, 2021 meeting, the County's Planning Commission considered the Proposed Project and recommended an approval of the Proposed Project to the County Board of Supervisors. At this time, the County Board of Supervisors has not set a date to consider the Planning Commission's recommendation related to the Proposed Project.

On July 26, 2021, South Coast AQMD staff became aware that new information was added to the MND after the close of public comment period. New information, which consists of updated criteria pollutants emission calculations (e.g., updated CalEEMod outputs) and a new mobile source health risk assessment (HRA)[2], is included in the Proposed Project's Final MND. On July 27, 2021, South Coast AQMD staff submitted a request to the Lead Agency to obtain the updated technical air quality emission calculations and air dispersion modeling files performed for the mobile source HRA. The Lead Agency provided the requested files on July 29, 2021.

Based on a review of the Final MND and technical modeling files, South Coast AQMD staff has four comments. A summary of these comments is provided as follows with additional details provided in the attachment.

1. Emission Rates from Heavy-Duty Trucks: The Final MND calculated truck running and idling emissions based on an assumption that all trucks accessing the Proposed Project would be

[1] South Coast AQMD staff. July 22, 2021. Comment Letter on the Mitigated Negative Declaration (MND) for the Cedar Avenue Truck Terminal (Project). Accessed at: http://www.aqmd.gov/docs/default-source/ceqa/comment-letters/2021/july/SBC210721-02.pdf.

[2] San Bernardino County, Land Use Services Department. Planning Commission Staff Report for Agenda Item #3 Accessed at: http://www.sbcounty.gov/uploads/lus/pc/PROJ-2020-00035%20Staff%20Report-final.pdf.

heavy-heavy-duty trucks. Unless the Lead Agency includes a project condition or a mitigation measure to limit truck access by only heavy-heavy-duty trucks, it is reasonably foreseeable that the Proposed Project would attract light- and medium- heavy-duty trucks during operation. Since light- and medium heavy-duty trucks have higher running and idling emission rates than heavy-heavy-duty trucks, the Final MND has likely underestimated the Proposed Project's operational mobile source emissions and should be revised.

2. Air Dispersion Modeling Parameters: In the air dispersion modeling that was performed for the Proposed Project's mobile source HRA and included in the Final MND, the Lead Agency represented all heavy-duty trucks idling as nine discrete point sources with uniform stack parameters for each point source. Since the Proposed Project would include 260 truck parking spaces, and to account for on-site idling emissions, the Lead Agency should use a series of volume sources or provide more information to justify the use of nine point sources with the uniform point source input parameters for modeling emissions from truck idling.

3. Recommended Air Quality Mitigation Measures: The Final MND did not include air quality mitigation measures. Due to the Proposed Project's close proximity to existing receptors, mitigation measures and design features should be included to reduce air quality and health risk impacts from mobile sources (e.g., trucks) and area sources to nearby sensitive receptors.

4. South Coast AQMD Permits and Responsible Agency: The Proposed Project will include operation of a maintenance facility on-site, with four maintenance bays. If operations include on-site fueling, a permit from South Coast AQMD would be required, and South Coast AQMD should be identified as a Responsible Agency for the Proposed Project.

The Final MND includes a mobile source HRA, which is new information added to the MND after public notice was given of the availability of the MND for public review and comments from January 13, 2021 to February 11, 2021 but before the consideration by the County's Planning Commission at the July 22, 2021 meeting. It appears that the mobile source HRA was not publicly noticed and circulated for public review in the same manner as the MND. The public is likely deprived of a meaningful opportunity to review the new information, and decisionmakers are also likely deprived of meaningful public participation and an informed decision making related to the Proposed Project's long-term health risk impacts on sensitive receptors.

South Coast AQMD staff is available to work with the Lead Agency to address any air quality questions that may arise from this comment letter. Please contact Alina Mullins, Air Quality Specialist, at amullins@aqmd.gov or (909) 396-2402, should you have any questions.

Sincerely,

Lijin Sun

Lijin Sun
Program Supervisor, CEQA-IGR
Planning, Rule Development & Area Sources

Attachment
LS:AM
Control Number: SBC210721-02

ATTACHMENT

South Coast AQMD Staff's Summary of Project Description in the Final MND

The Proposed Project consists of construction and operation of a truck terminal facility that would include parking for 260 trucks and 14 vehicles, a 2,400-square-foot office building, a 4,800-square-foot maintenance shop with four repair bays, and a 250-square-foot guard shack on an 8.95 acre-site in the unincorporated community of Bloomington within the County of San Bernardino. The Proposed Project will be operational 24 hours a day, seven days a week and will generate 572 daily truck trips from heavy-heavy-duty 4-axle trucks visiting the site[3]. During operations, the Proposed Project will provide storage for truck trailers in-between deliveries or during off seasons[4]. The Proposed Project is adjacent to single-family residences to the north and commercial land uses to the south, and within 130 feet of a mobile home park to the east[5].

South Coast AQMD Staff's Summary of the CEQA Air Quality Analysis and HRA in the Final MND

In the air quality analysis, the Lead Agency quantified the Proposed Project's construction and operational emissions and compared those emissions to the South Coast AQMD's recommended regional and localized CEQA air quality significance thresholds. Based on the analysis, the Lead Agency found that the Proposed Project's construction and operational air quality impacts would be less than significant[6]. Although the Proposed Project would generate 572 daily truck trips during operation, the Lead Agency did not perform a mobile source HRA in the MND. After the close of the 30-day public review and comment period for the MND, which was not sent to the South Coast AQMD, the Lead Agency included a mobile source HRA, dated June 14, 2021, in the Final MND and found that the Proposed Project would result in a cancer risk of 5.06 in one million[7] for a 30-year exposure duration, which would not exceed South Coast AQMD's CEQA significance threshold of 10 in one million for cancer risk[8].

South Coast AQMD staff's detailed comments on the Final MND's air quality analysis and the air dispersion modeling performed for the mobile source HRA are provided as follows.

1. Emission Rates from Heavy-Duty Trucks

South Coast AQMD staff found that the Lead Agency assumed that all trucks visiting the Proposed Project would be heavy-heavy-duty 4-axle trucks. This assumption was based on a traffic memorandum prepared for a previous truck trailer yard project located near the Proposed Project site[9]. Emission rates from heavy-heavy-duty trucks (HHDT) were then folded into the air dispersion modeling and mobile source HRA. South Coast AQMD staff is concerned with this assumption because there is no project condition or mitigation measure that would prevent light-heavy-duty trucks (LHDT) or medium-heavy-duty trucks (MHDT) from accessing the site. LHDT and MHDT

[3] MND. Bloomington Truck Storage Project Health Risk Assessment Analysis. Page 165.
[4] MND. Page 1.
[5] MND. Page 2.
[6] MND. Pages 15 through 21.
[7] MND. Bloomington Truck Storage Project Health Risk Assessment Analysis. Page 168.
[8] South Coast AQMD has developed the CEQA significance threshold of 10 in one million for cancer risk. When South Coast AQMD acts as the Lead Agency, South Coast AQMD staff conducts a HRA, compares the maximum cancer risk to the threshold of 10 in one million to determine the level of significance for health risk impacts, and identifies mitigation measures if the risk is found to be significant.
[9] MND. Traffic Analysis *Table 4-1 Project Trip Generation Rates*. Page 44.

trucks can have higher running or idling emission rates than those of HHDT. Table 1, *Examples of LHDT, MHDT, and HHDT Emission Rates*, illustrates the differences between emission rates from the different heavy-duty truck categories. As demonstrated in Table 1, MHDT can have higher running emissions than HHDT, and MHDT and LHDT can have higher idling emissions than HHDT. Without a project condition or a mitigation measure to restrict LHDT and MHDT from accessing the site, these types of heavy-duty trucks have the potential to access the Proposed Project and generate emissions from running and idling. As such, the Final MND has likely underestimated the Proposed Project's regional emissions and local concentrations of air pollutants, such as diesel particulate matter (DPM), which is a known carcinogen, from LHDT and MHDT accessing the site. South Coast AQMD staff recommends that the Lead Agency use appropriate assumptions to develop a reasonable profile or composition of heavy-duty trucks that will visit the Proposed Project and revise the air quality analysis and mobile source HRA in the Final MND to account for emission rates from LHDT, MHDT, and HHDT. Alternatively, the Lead Agency should incorporate a project condition or a mitigation measure that will limit truck access to only HHDT, which is the only heavy-duty truck type that has been analyzed in the Final MND.

Table 1: Examples of LHDT, MHDT, and HHDT Emission Rates*

Heavy-Duty Truck Types	Running EMFAC (grams/ mile)	Running Emission Rate (g/s) for AERMOD[1]
HHDT	0.0784	2.08E-04
MHDT	0.17489	4.63E-04
LHDT2	0.05383	1.43E-04
	Idling EMFAC (grams/hour)	**Idling Emission Rate (g/s) for AERMOD[2]**
HHDT	0.02224	3.68E-05
MHDT	0.24358	4.03E-04
LHDT2	0.78639	1.30E-03

*Source: South Coast AQMD staff. July 2021.

1. To calculate running emissions, South Coast AQMD staff used the operational characteristics provided by the Lead Agency. Operational characteristic assumptions included: 24 hours of operation, 572 daily truck trips and 0.4 miles of on-site truck travel.
2. To calculate idling emissions, South Coast AQMD staff used the operational characteristics provided by the Lead Agency. Operational characteristics assumptions included: 572 daily truck trips and 15 minutes of idling per hour.

2. Air Dispersion Modeling Parameters

Based on a review of the air dispersion modeling performed using AERMOD, South Coast AQMD staff found that the Lead Agency modeled truck idling as nine discrete point sources in various locations within the Proposed Project site[10]. The Proposed Project will have 260 parking spaces dedicated to truck trailers. Due to the nature of operations as a truck terminal, it is reasonably foreseeable that truck idling may occur across the entire Proposed Project site at any of the 260 parking spaces or during ingress or egress from the site, and not limited to nine discrete locations modeled in AERMOD. Additionally, modeling point sources in AERMOD requires specific information about a source's stack, such as the temperature, velocity, and flow rate of the gas existing the stack and the stack's diameter. The Lead Agency used the same point source stack parameters for all nine point sources[11]. It is also reasonably foreseeable that the Proposed Project will service a diverse truck fleet with different engines and exhaust systems, and that not every

[10] MND. Bloomington Truck Storage Project Health Risk Assessment Analysis. Page 180.
[11] *Ibid*. Page 171.

truck will have stack parameters similar to the one used in the modeling. Therefore, South Coast AQMD staff recommends that the Lead Agency use a series of volume sources to account for on-site truck idling. Alternatively, the Lead Agency can provide additional information to justify that modeling truck idling as nine discrete point sources with the uniform point source input parameters across the Proposed Project site is appropriate. When modeling idling emissions from a truck with cargo container as a point sources, it is important to note that the cargo container has a downwash effect that wind flowing over or around the container has on plumes released from nearby stacks. It creates a cavity of recirculating winds in the area near the container, and the cavity causes increased vertical dispersion of plumes emitted from stacks on or near the container. Therefore, the building downwash parameters should be used in AERMOD.

3. Recommended Air Quality Mitigation Measures

Due to the Proposed Project's close proximity to existing sensitive receptors (within 130 feet), the Lead Agency should include air quality mitigation measures to reduce air quality and health risk impacts to nearby receptors during operation. The following mitigation measures are provided as resources to the Lead Agency.

Mitigation Measures to Reduce Air Quality and Health Risk Impacts from Mobile Sources during Operation

- Limit the daily number of trucks allowed at the Proposed Project to levels analyzed in the Final MND. If higher daily truck volumes are anticipated to visit the site, the Lead Agency should commit to re-evaluating the Proposed Project through CEQA prior to allowing higher activity levels.
- To assist in the turnover to cleaner truck fleets within the South Coast Air Basin as electric trucks become more widely available and in use, and to attract zero-emission trucks to the Proposed Project instead of just diesel trucks, the Lead Agency should provide electric vehicle (EV) charging stations or at a minimum, provide the electrical infrastructure and electrical panels for future EV charging stations. Panels should be appropriately sized. Electrical hookups should be provided for truckers to plug in any onboard auxiliary equipment.

Mitigation Measures to Reduce Air Quality and Health Risk Impacts from Area Sources during Operation

- Maximize use of solar energy by installing solar energy arrays.
- Use light colored paving and roofing materials.
- Utilize only Energy Star heating, cooling, and lighting devices, and appliances.
- Use of water-based or low VOC cleaning products that go beyond the requirements of South Coast AQMD Rule 1113.

Design Considerations to Further Reduce Air Quality and Health Risk Impacts during Operation

- Clearly mark truck routes with trailblazer signs, so that trucks will not travel next to or near sensitive land uses (e.g., residences, schools, day care centers, etc.).

- Design the Proposed Project such that truck entrances and exits are not facing sensitive receptors and trucks will not travel past sensitive land uses to enter or leave the Proposed Project site.
- Design the Proposed Project such that any check-in point for trucks is inside the Proposed Project site to ensure that there are no trucks queuing or idling outside.
- Design the Proposed Project to ensure that truck traffic inside the Proposed Project site is as far away as feasible from sensitive receptors

4. South Coast AQMD Permits and Responsible Agency

The Proposed Project includes operation of a maintenance facility with four maintenance bays. If on-site fueling will occur at the maintenance facility, a permit to construct and a permit to operate from South Coast AQMD will be required. South Coast AQMD should be identified as a Responsible Agency for the Proposed Project in the Final MND. The assumptions used in the air quality analysis and HRA in the Final MND will be used as the basis for evaluating the permits under CEQA and imposing permit conditions and limits. The 2015 revised Office of Environmental Health Hazard Assessment (OEHHA) methodology[12] is being used by South Coast AQMD for determining operational health impacts for permitting applications and also for all CEQA projects where South Coast AQMD is the Lead Agency. Should there be any questions on permits, please contact South Coast AQMD's Engineering and Permitting staff at (909) 396-3385. For more general information on permits, please visit South Coast AQMD's webpage[13].

[12] Office of Environmental Health Hazard Assessment. "Notice of Adoption of Air Toxics Hot Spots Program Guidance Manual for the Preparation of Health Risk Assessments 2015". Accessed at: https://oehha.ca.gov/air/crnr/notice-adoption-air-toxics-hot-spots-program-guidance-manual-preparation-health-risk-0.

[13] South Coast AQMD. Accessed at: http://www.aqmd.gov/home/permits.

City:	Jurupa Valley
Location:	11215 Riverside Drive - CFL Trucking
Date:	3/30/2021
Count Type:	24 Hour Driveway Count

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

	Exiting				
	Pass Veh	Large 2 Axle	3 Axle	4+ Axle	Total
0:00	0	1	0	0	1
0:15	0	0	0	0	0
0:30	0	0	0	0	0
0:45	2	1	0	0	3
1:00	1	1	0	0	2
1:15	1	1	0	0	2
1:30	0	0	0	0	0
1:45	0	0	0	0	0
2:00	0	1	0	0	1
2:15	0	0	0	0	0
2:30	2	0	0	0	2
2:45	0	0	1	1	2
3:00	2	0	0	0	2
3:15	1	0	0	1	2
3:30	0	1	0	1	2
3:45	0	0	0	0	0
4:00	1	1	0	1	3
4:15	0	0	0	0	0
4:30	2	0	0	0	2
4:45	0	0	1	0	1
5:00	1	0	3	1	5
5:15	0	0	0	1	1
5:30	0	0	1	0	1
5:45	0	0	4	1	5
6:00	0	0	3	3	6
6:15	0	0	0	0	0
6:30	3	0	3	2	8
6:45	2	1	1	0	4
7:00	0	0	2	1	3
7:15	1	1	1	1	4
7:30	0	0	1	5	6
7:45	2	2	0	1	5
8:00	2	1	0	1	4
8:15	1	1	0	0	2
8:30	2	0	1	2	5
8:45	2	2	1	2	7
9:00	2	0	0	1	3
9:15	1	0	0	0	1
9:30	0	0	1	0	1
9:45	1	0	1	0	2
10:00	3	0	0	0	3
10:15	3	4	0	2	9
10:30	1	0	0	0	1
10:45	1	0	1	0	2
11:00	4	0	2	3	9
11:15	3	0	0	0	3
11:30	2	0	1	1	4
11:45	2	0	0	1	3

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

City:	Jurupa Valley
Location:	11215 Riverside Drive - CFL Trucking
Date:	3/30/2021
Count Type:	24 Hour Driveway Count

	Entering				
	Pass Veh	Large 2 Axle	3 Axle	4+ Axle	Total
12:00	4	0	1	0	5
12:15	3	0	0	0	3
12:30	4	0	0	2	6
12:45	3	0	1	0	4
13:00	5	0	0	1	6
13:15	4	0	2	3	9
13:30	3	1	1	2	7
13:45	3	0	0	2	5
14:00	3	0	2	2	7
14:15	2	2	0	1	5
14:30	3	0	0	2	5
14:45	1	0	5	2	8
15:00	3	0	2	0	5
15:15	3	2	1	1	7
15:30	0	1	3	2	6
15:45	2	0	1	1	4
16:00	1	0	1	1	3
16:15	2	0	2	2	6
16:30	4	1	1	1	7
16:45	3	1	1	1	6
17:00	0	1	0	3	4
17:15	3	0	1	0	4
17:30	1	1	1	0	3
17:45	0	0	1	1	2
18:00	2	3	0	0	5
18:15	1	1	0	3	5
18:30	2	0	0	1	3
18:45	0	0	1	1	2
19:00	3	0	0	1	4
19:15	1	0	0	2	3
19:30	1	0	1	0	2
19:45	1	2	0	3	6
20:00	0	0	0	3	3
20:15	0	0	0	2	2
20:30	3	0	1	1	5
20:45	2	0	0	0	2
21:00	2	0	0	1	3
21:15	1	1	1	3	6
21:30	1	0	0	1	2
21:45	1	0	0	0	1
22:00	0	1	0	0	1
22:15	1	1	0	0	2
22:30	1	0	0	1	2
22:45	1	0	0	2	3
23:00	0	0	0	1	1
23:15	0	0	0	1	1
23:30	0	0	0	0	0
23:45	2	0	0	1	3
TOTAL	**175**	**29**	**50**	**74**	**328**

	Exiting				
	Pass Veh	Large 2 Axle	3 Axle	4+ Axle	Total
12:00	4	0	0	0	4
12:15	3	0	0	1	4
12:30	6	0	1	0	7
12:45	2	0	0	2	4
13:00	1	0	0	0	1
13:15	4	1	0	0	5
13:30	3	1	3	2	9
13:45	2	0	0	0	2
14:00	1	0	1	0	2
14:15	5	0	0	2	7
14:30	3	0	0	1	4
14:45	4	1	0	1	6
15:00	7	0	0	2	9
15:15	1	1	2	0	4
15:30	4	0	1	0	5
15:45	4	0	1	0	5
16:00	7	0	0	0	7
16:15	2	0	1	0	3
16:30	2	0	1	1	4
16:45	6	0	0	3	9
17:00	2	0	3	0	5
17:15	6	0	1	1	8
17:30	1	0	0	1	2
17:45	4	0	1	0	5
18:00	2	0	0	0	2
18:15	5	0	0	0	5
18:30	2	0	1	2	5
18:45	4	1	0	1	6
19:00	2	0	0	0	2
19:15	1	0	1	1	3
19:30	0	1	0	0	1
19:45	3	0	0	1	4
20:00	0	0	0	1	1
20:15	3	0	1	0	4
20:30	5	1	0	1	7
20:45	0	0	0	0	0
21:00	0	0	1	1	2
21:15	0	1	3	1	5
21:30	4	0	1	1	6
21:45	1	0	1	0	2
22:00	1	0	0	0	1
22:15	3	2	0	0	5
22:30	1	1	0	0	2
22:45	2	0	0	1	3
23:00	1	0	0	0	1
23:15	1	0	0	0	1
23:30	0	0	1	0	1
23:45	2	0	0	0	2
	178	**30**	**55**	**61**	**324**

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

Truck Terminal Facility, SBC, Wiener

San Bernardino-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	7.20	1000sqft	0.17	7,200.00	0
Other Non-Asphalt Surfaces	1.34	Acre	1.34	58,370.40	0
Parking Lot	7.43	Acre	7.43	323,650.80	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	32
Climate Zone	10			**Operational Year**	2022
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Per Site Plan

Construction Phase -

Vehicle Trips - Per TIA...716 total daily Trips

Construction Off-road Equipment Mitigation - 55% reduction is 2x and day. Therefore, 3x a day is 82.5%

Mobile Land Use Mitigation -

Mobile Commute Mitigation -

Area Mitigation -

Energy Mitigation -

Water Mitigation -

Fleet Mix - Per TIA

Truck Terminal Facility, SBC, Wiener - San Bernardino-South Coast County, Annual

Table Name	Column Name	Default Value	New Value
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblConstDustMitigation	WaterExposedAreaPM10PercentReduction	61	82.5
tblConstDustMitigation	WaterExposedAreaPM25PercentReduction	61	82.5
tblFleetMix	HHD	0.06	0.45
tblFleetMix	LDA	0.55	0.40
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT2	0.18	0.00
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD2	5.1010e-003	0.00
tblFleetMix	MCY	5.9030e-003	0.00
tblFleetMix	MDV	0.12	0.00
tblFleetMix	MH	9.4400e-004	0.00
tblFleetMix	MHD	0.02	0.15
tblFleetMix	OBUS	1.3570e-003	0.00
tblFleetMix	SBUS	8.0800e-004	0.00
tblFleetMix	UBUS	1.5650e-003	0.00
tblVehicleTrips	ST_TR	1.32	99.44
tblVehicleTrips	SU_TR	0.68	99.44
tblVehicleTrips	WD_TR	6.97	99.44

2.0 Emissions Summary

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	0.2212	1.9769	1.7628	4.3100e-003	0.2965	0.0836	0.3801	0.1213	0.0782	0.1995	0.0000	386.7225	386.7225	0.0586	0.0000	388.1879
2022	0.2448	1.2720	1.3685	3.4000e-003	0.1192	0.0497	0.1688	0.0321	0.0466	0.0788	0.0000	305.4627	305.4627	0.0431	0.0000	306.5392
Maximum	**0.2448**	**1.9769**	**1.7628**	**4.3100e-003**	**0.2965**	**0.0836**	**0.3801**	**0.1213**	**0.0782**	**0.1995**	**0.0000**	**386.7225**	**386.7225**	**0.0586**	**0.0000**	**388.1879**

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	0.2212	1.9769	1.7628	4.3100e-003	0.1679	0.0836	0.2516	0.0525	0.0782	0.1307	0.0000	386.7223	386.7223	0.0586	0.0000	388.1877
2022	0.2448	1.2720	1.3685	3.4000e-003	0.1192	0.0497	0.1688	0.0321	0.0466	0.0788	0.0000	305.4626	305.4626	0.0431	0.0000	306.5390
Maximum	**0.2448**	**1.9769**	**1.7628**	**4.3100e-003**	**0.1679**	**0.0836**	**0.2516**	**0.0525**	**0.0782**	**0.1307**	**0.0000**	**386.7223**	**386.7223**	**0.0586**	**0.0000**	**388.1877**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**30.93**	**0.00**	**23.42**	**44.81**	**0.00**	**24.71**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	5-28-2021	8-27-2021	0.9765	0.9765
2	8-28-2021	11-27-2021	0.8869	0.8869
3	11-28-2021	2-27-2022	0.8358	0.8358
4	2-28-2022	5-27-2022	0.7764	0.7764
5	5-28-2022	8-27-2022	0.2335	0.2335
		Highest	0.9765	0.9765

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	0.0594	0.0000	2.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	4.0000e-004	4.0000e-004	0.0000	0.0000	4.2000e-004
Energy	1.2600e-003	0.0115	9.6300e-003	7.0000e-005		8.7000e-004	8.7000e-004		8.7000e-004	8.7000e-004	0.0000	71.8609	71.8609	2.6900e-003	7.4000e-004	72.1475
Mobile	0.3331	11.0909	2.8748	0.0395	1.3140	0.0248	1.3388	0.3624	0.0237	0.3860	0.0000	3,771.5106	3,771.5106	0.2148	0.0000	3,776.8814
Waste						0.0000	0.0000		0.0000	0.0000	1.8127	0.0000	1.8127	0.1071	0.0000	4.4909
Water						0.0000	0.0000		0.0000	0.0000	0.5282	6.9077	7.4359	0.0545	1.3400e-003	9.1988
Total	**0.3937**	**11.1024**	**2.8846**	**0.0395**	**1.3140**	**0.0257**	**1.3397**	**0.3624**	**0.0245**	**0.3869**	**2.3409**	**3,850.2796**	**3,852.6205**	**0.3792**	**2.0800e-003**	**3,862.7190**

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	0.0594	0.0000	2.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	4.0000e-004	4.0000e-004	0.0000	0.0000	4.2000e-004
Energy	1.2600e-003	0.0115	9.6300e-003	7.0000e-005		8.7000e-004	8.7000e-004		8.7000e-004	8.7000e-004	0.0000	71.8609	71.8609	2.6900e-003	7.4000e-004	72.1475
Mobile	0.2872	9.8431	2.3673	0.0309	0.9508	0.0184	0.9692	0.2622	0.0175	0.2797	0.0000	2,957.5490	2,957.5490	0.1987	0.0000	2,962.5168
Waste						0.0000	0.0000		0.0000	0.0000	1.8127	0.0000	1.8127	0.1071	0.0000	4.4909
Water						0.0000	0.0000		0.0000	0.0000	0.4629	6.0539	6.5169	0.0478	1.1700e-003	8.0618
Total	**0.3479**	**9.8546**	**2.3771**	**0.0310**	**0.9508**	**0.0193**	**0.9701**	**0.2622**	**0.0184**	**0.2806**	**2.2757**	**3,035.4642**	**3,037.7399**	**0.3563**	**1.9100e-003**	**3,047.2174**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**11.65**	**11.24**	**17.59**	**21.55**	**27.64**	**25.01**	**27.59**	**27.64**	**24.98**	**27.47**	**2.79**	**21.16**	**21.15**	**6.03**	**8.17**	**21.11**

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	5/28/2021	6/10/2021	5	10	
2	Grading	Grading	6/11/2021	7/8/2021	5	20	
3	Building Construction	Building Construction	7/9/2021	5/26/2022	5	230	
4	Paving	Paving	5/27/2022	6/23/2022	5	20	
5	Architectural Coating	Architectural Coating	6/24/2022	7/21/2022	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 10

Acres of Paving: 8.77

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 10,800; Non-Residential Outdoor: 3,600; Striped Parking Area: 22,921 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	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	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	163.00	64.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	33.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 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					0.0903	0.0000	0.0903	0.0497	0.0000	0.0497	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0194	0.2025	0.1058	1.9000e-004		0.0102	0.0102		9.4000e-003	9.4000e-003	0.0000	16.7179	16.7179	5.4100e-003	0.0000	16.8530
Total	**0.0194**	**0.2025**	**0.1058**	**1.9000e-004**	**0.0903**	**0.0102**	**0.1006**	**0.0497**	**9.4000e-003**	**0.0591**	**0.0000**	**16.7179**	**16.7179**	**5.4100e-003**	**0.0000**	**16.8530**

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	4.1000e-004	3.1000e-004	3.2100e-003	1.0000e-005	9.9000e-004	1.0000e-005	9.9000e-004	2.6000e-004	1.0000e-005	2.7000e-004	0.0000	0.8189	0.8189	2.0000e-005	0.0000	0.8195
Total	**4.1000e-004**	**3.1000e-004**	**3.2100e-003**	**1.0000e-005**	**9.9000e-004**	**1.0000e-005**	**9.9000e-004**	**2.6000e-004**	**1.0000e-005**	**2.7000e-004**	**0.0000**	**0.8189**	**0.8189**	**2.0000e-005**	**0.0000**	**0.8195**

3.2 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					0.0158	0.0000	0.0158	8.6900e-003	0.0000	8.6900e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0194	0.2025	0.1058	1.9000e-004		0.0102	0.0102		9.4000e-003	9.4000e-003	0.0000	16.7178	16.7178	5.4100e-003	0.0000	16.8530
Total	**0.0194**	**0.2025**	**0.1058**	**1.9000e-004**	**0.0158**	**0.0102**	**0.0260**	**8.6900e-003**	**9.4000e-003**	**0.0181**	**0.0000**	**16.7178**	**16.7178**	**5.4100e-003**	**0.0000**	**16.8530**

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	4.1000e-004	3.1000e-004	3.2100e-003	1.0000e-005	9.9000e-004	1.0000e-005	9.9000e-004	2.6000e-004	1.0000e-005	2.7000e-004	0.0000	0.8189	0.8189	2.0000e-005	0.0000	0.8195
Total	**4.1000e-004**	**3.1000e-004**	**3.2100e-003**	**1.0000e-005**	**9.9000e-004**	**1.0000e-005**	**9.9000e-004**	**2.6000e-004**	**1.0000e-005**	**2.7000e-004**	**0.0000**	**0.8189**	**0.8189**	**2.0000e-005**	**0.0000**	**0.8195**

3.3 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					0.0655	0.0000	0.0655	0.0337	0.0000	0.0337	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0229	0.2474	0.1586	3.0000e-004		0.0116	0.0116		0.0107	0.0107	0.0000	26.0537	26.0537	8.4300e-003	0.0000	26.2644
Total	**0.0229**	**0.2474**	**0.1586**	**3.0000e-004**	**0.0655**	**0.0116**	**0.0771**	**0.0337**	**0.0107**	**0.0443**	**0.0000**	**26.0537**	**26.0537**	**8.4300e-003**	**0.0000**	**26.2644**

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	6.9000e-004	5.2000e-004	5.3400e-003	2.0000e-005	1.6400e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.3649	1.3649	4.0000e-005	0.0000	1.3658
Total	**6.9000e-004**	**5.2000e-004**	**5.3400e-003**	**2.0000e-005**	**1.6400e-003**	**1.0000e-005**	**1.6600e-003**	**4.4000e-004**	**1.0000e-005**	**4.5000e-004**	**0.0000**	**1.3649**	**1.3649**	**4.0000e-005**	**0.0000**	**1.3658**

3.3 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					0.0115	0.0000	0.0115	5.8900e-003	0.0000	5.8900e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0229	0.2474	0.1586	3.0000e-004		0.0116	0.0116		0.0107	0.0107	0.0000	26.0537	26.0537	8.4300e-003	0.0000	26.2643
Total	**0.0229**	**0.2474**	**0.1586**	**3.0000e-004**	**0.0115**	**0.0116**	**0.0231**	**5.8900e-003**	**0.0107**	**0.0166**	**0.0000**	**26.0537**	**26.0537**	**8.4300e-003**	**0.0000**	**26.2643**

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	6.9000e-004	5.2000e-004	5.3400e-003	2.0000e-005	1.6400e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.3649	1.3649	4.0000e-005	0.0000	1.3658
Total	**6.9000e-004**	**5.2000e-004**	**5.3400e-003**	**2.0000e-005**	**1.6400e-003**	**1.0000e-005**	**1.6600e-003**	**4.4000e-004**	**1.0000e-005**	**4.5000e-004**	**0.0000**	**1.3649**	**1.3649**	**4.0000e-005**	**0.0000**	**1.3658**

3.4 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	0.1198	1.0982	1.0442	1.7000e-003		0.0604	0.0604		0.0568	0.0568	0.0000	145.9315	145.9315	0.0352	0.0000	146.8117
Total	**0.1198**	**1.0982**	**1.0442**	**1.7000e-003**		**0.0604**	**0.0604**		**0.0568**	**0.0568**	**0.0000**	**145.9315**	**145.9315**	**0.0352**	**0.0000**	**146.8117**

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	0.0107	0.3923	0.0798	1.0700e-003	0.0254	6.7000e-004	0.0261	7.3400e-003	6.5000e-004	7.9800e-003	0.0000	102.3980	102.3980	6.9000e-003	0.0000	102.5705
Worker	0.0473	0.0357	0.3659	1.0300e-003	0.1126	7.3000e-004	0.1133	0.0299	6.8000e-004	0.0306	0.0000	93.4377	93.4377	2.6200e-003	0.0000	93.5031
Total	**0.0580**	**0.4280**	**0.4457**	**2.1000e-003**	**0.1380**	**1.4000e-003**	**0.1394**	**0.0372**	**1.3300e-003**	**0.0386**	**0.0000**	**195.8357**	**195.8357**	**9.5200e-003**	**0.0000**	**196.0735**

3.4 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	0.1198	1.0982	1.0442	1.7000e-003		0.0604	0.0604		0.0568	0.0568	0.0000	145.9313	145.9313	0.0352	0.0000	146.8115
Total	**0.1198**	**1.0982**	**1.0442**	**1.7000e-003**		**0.0604**	**0.0604**		**0.0568**	**0.0568**	**0.0000**	**145.9313**	**145.9313**	**0.0352**	**0.0000**	**146.8115**

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	0.0107	0.3923	0.0798	1.0700e-003	0.0254	6.7000e-004	0.0261	7.3400e-003	6.5000e-004	7.9800e-003	0.0000	102.3980	102.3980	6.9000e-003	0.0000	102.5705
Worker	0.0473	0.0357	0.3659	1.0300e-003	0.1126	7.3000e-004	0.1133	0.0299	6.8000e-004	0.0306	0.0000	93.4377	93.4377	2.6200e-003	0.0000	93.5031
Total	**0.0580**	**0.4280**	**0.4457**	**2.1000e-003**	**0.1380**	**1.4000e-003**	**0.1394**	**0.0372**	**1.3300e-003**	**0.0386**	**0.0000**	**195.8357**	**195.8357**	**9.5200e-003**	**0.0000**	**196.0735**

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	0.0887	0.8120	0.8509	1.4000e-003		0.0421	0.0421		0.0396	0.0396	0.0000	120.4971	120.4971	0.0289	0.0000	121.2188
Total	**0.0887**	**0.8120**	**0.8509**	**1.4000e-003**		**0.0421**	**0.0421**		**0.0396**	**0.0396**	**0.0000**	**120.4971**	**120.4971**	**0.0289**	**0.0000**	**121.2188**

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	8.2200e-003	0.3066	0.0610	8.8000e-004	0.0210	4.7000e-004	0.0215	6.0600e-003	4.5000e-004	6.5000e-003	0.0000	83.8305	83.8305	5.5000e-003	0.0000	83.9680
Worker	0.0365	0.0265	0.2770	8.2000e-004	0.0929	5.9000e-004	0.0935	0.0247	5.4000e-004	0.0252	0.0000	74.3442	74.3442	1.9400e-003	0.0000	74.3926
Total	**0.0447**	**0.3332**	**0.3380**	**1.7000e-003**	**0.1139**	**1.0600e-003**	**0.1150**	**0.0307**	**9.9000e-004**	**0.0317**	**0.0000**	**158.1747**	**158.1747**	**7.4400e-003**	**0.0000**	**158.3606**

3.4 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	0.0887	0.8120	0.8509	1.4000e-003		0.0421	0.0421		0.0396	0.0396	0.0000	120.4970	120.4970	0.0289	0.0000	121.2187
Total	**0.0887**	**0.8120**	**0.8509**	**1.4000e-003**		**0.0421**	**0.0421**		**0.0396**	**0.0396**	**0.0000**	**120.4970**	**120.4970**	**0.0289**	**0.0000**	**121.2187**

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	8.2200e-003	0.3066	0.0610	8.8000e-004	0.0210	4.7000e-004	0.0215	6.0600e-003	4.5000e-004	6.5000e-003	0.0000	83.8305	83.8305	5.5000e-003	0.0000	83.9680
Worker	0.0365	0.0265	0.2770	8.2000e-004	0.0929	5.9000e-004	0.0935	0.0247	5.4000e-004	0.0252	0.0000	74.3442	74.3442	1.9400e-003	0.0000	74.3926
Total	**0.0447**	**0.3332**	**0.3380**	**1.7000e-003**	**0.1139**	**1.0600e-003**	**0.1150**	**0.0307**	**9.9000e-004**	**0.0317**	**0.0000**	**158.1747**	**158.1747**	**7.4400e-003**	**0.0000**	**158.3606**

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	9.7300e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0208**	**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**

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	6.5000e-004	4.7000e-004	4.9000e-003	1.0000e-005	1.6400e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.3157	1.3157	3.0000e-005	0.0000	1.3165
Total	**6.5000e-004**	**4.7000e-004**	**4.9000e-003**	**1.0000e-005**	**1.6400e-003**	**1.0000e-005**	**1.6600e-003**	**4.4000e-004**	**1.0000e-005**	**4.5000e-004**	**0.0000**	**1.3157**	**1.3157**	**3.0000e-005**	**0.0000**	**1.3165**

3.5 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	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	9.7300e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0208**	**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**

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	6.5000e-004	4.7000e-004	4.9000e-003	1.0000e-005	1.6400e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.3157	1.3157	3.0000e-005	0.0000	1.3165
Total	**6.5000e-004**	**4.7000e-004**	**4.9000e-003**	**1.0000e-005**	**1.6400e-003**	**1.0000e-005**	**1.6600e-003**	**4.4000e-004**	**1.0000e-005**	**4.5000e-004**	**0.0000**	**1.3157**	**1.3157**	**3.0000e-005**	**0.0000**	**1.3165**

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	0.0865					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	**0.0885**	**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**

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	1.4200e-003	1.0300e-003	0.0108	3.0000e-005	3.6200e-003	2.0000e-005	3.6400e-003	9.6000e-004	2.0000e-005	9.8000e-004	0.0000	2.8945	2.8945	8.0000e-005	0.0000	2.8964
Total	**1.4200e-003**	**1.0300e-003**	**0.0108**	**3.0000e-005**	**3.6200e-003**	**2.0000e-005**	**3.6400e-003**	**9.6000e-004**	**2.0000e-005**	**9.8000e-004**	**0.0000**	**2.8945**	**2.8945**	**8.0000e-005**	**0.0000**	**2.8964**

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	0.0865					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	**0.0885**	**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**

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	1.4200e-003	1.0300e-003	0.0108	3.0000e-005	3.6200e-003	2.0000e-005	3.6400e-003	9.6000e-004	2.0000e-005	9.8000e-004	0.0000	2.8945	2.8945	8.0000e-005	0.0000	2.8964
Total	**1.4200e-003**	**1.0300e-003**	**0.0108**	**3.0000e-005**	**3.6200e-003**	**2.0000e-005**	**3.6400e-003**	**9.6000e-004**	**2.0000e-005**	**9.8000e-004**	**0.0000**	**2.8945**	**2.8945**	**8.0000e-005**	**0.0000**	**2.8964**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Improve Walkability Design

Improve Destination Accessibility

Increase Transit Accessibility

Improve Pedestrian Network

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.2872	9.8431	2.3673	0.0309	0.9508	0.0184	0.9692	0.2622	0.0175	0.2797	0.0000	2,957.5490	2,957.5490	0.1987	0.0000	2,962.5168
Unmitigated	0.3331	11.0909	2.8748	0.0395	1.3140	0.0248	1.3388	0.3624	0.0237	0.3860	0.0000	3,771.5106	3,771.5106	0.2148	0.0000	3,776.8814

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	715.97	715.97	715.97	3,170,505	2,294,093
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	715.97	715.97	715.97	3,170,505	2,294,093

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Light Industry	16.60	8.40	6.90	59.00	28.00	13.00	92	5	3
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	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	0.400000	0.000000	0.000000	0.000000	0.000000	0.000000	0.150000	0.450000	0.000000	0.000000	0.000000	0.000000	0.000000
Other Non-Asphalt Surfaces	0.553113	0.036408	0.180286	0.116335	0.016165	0.005101	0.018218	0.063797	0.001357	0.001565	0.005903	0.000808	0.000944
Parking Lot	0.553113	0.036408	0.180286	0.116335	0.016165	0.005101	0.018218	0.063797	0.001357	0.001565	0.005903	0.000808	0.000944

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	59.3776	59.3776	2.4500e-003	5.1000e-004	59.5900
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	59.3776	59.3776	2.4500e-003	5.1000e-004	59.5900
NaturalGas Mitigated	1.2600e-003	0.0115	9.6300e-003	7.0000e-005		8.7000e-004	8.7000e-004		8.7000e-004	8.7000e-004	0.0000	12.4833	12.4833	2.4000e-004	2.3000e-004	12.5575
NaturalGas Unmitigated	1.2600e-003	0.0115	9.6300e-003	7.0000e-005		8.7000e-004	8.7000e-004		8.7000e-004	8.7000e-004	0.0000	12.4833	12.4833	2.4000e-004	2.3000e-004	12.5575

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Light Industry	233928	1.2600e-003	0.0115	9.6300e-003	7.0000e-005		8.7000e-004	8.7000e-004		8.7000e-004	8.7000e-004	0.0000	12.4833	12.4833	2.4000e-004	2.3000e-004	12.5575
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		**1.2600e-003**	**0.0115**	**9.6300e-003**	**7.0000e-005**		**8.7000e-004**	**8.7000e-004**		**8.7000e-004**	**8.7000e-004**	**0.0000**	**12.4833**	**12.4833**	**2.4000e-004**	**2.3000e-004**	**12.5575**

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	233928	1.2600e-003	0.0115	9.6300e-003	7.0000e-005		8.7000e-004	8.7000e-004		8.7000e-004	8.7000e-004	0.0000	12.4833	12.4833	2.4000e-004	2.3000e-004	12.5575
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		**1.2600e-003**	**0.0115**	**9.6300e-003**	**7.0000e-005**		**8.7000e-004**	**8.7000e-004**		**8.7000e-004**	**8.7000e-004**	**0.0000**	**12.4833**	**12.4833**	**2.4000e-004**	**2.3000e-004**	**12.5575**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Light Industry	73080	23.2849	9.6000e-004	2.0000e-004	23.3682
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	113278	36.0927	1.4900e-003	3.1000e-004	36.2219
Total		**59.3776**	**2.4500e-003**	**5.1000e-004**	**59.5900**

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Light Industry	73080	23.2849	9.6000e-004	2.0000e-004	23.3682
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	113278	36.0927	1.4900e-003	3.1000e-004	36.2219
Total		**59.3776**	**2.4500e-003**	**5.1000e-004**	**59.5900**

6.0 Area Detail

6.1 Mitigation Measures Area

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

No Hearths Installed

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0594	0.0000	2.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	4.0000e-004	4.0000e-004	0.0000	0.0000	4.2000e-004
Unmitigated	0.0594	0.0000	2.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	4.0000e-004	4.0000e-004	0.0000	0.0000	4.2000e-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	8.6500e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0507					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	2.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	4.0000e-004	4.0000e-004	0.0000	0.0000	4.2000e-004
Total	**0.0594**	**0.0000**	**2.0000e-004**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**4.0000e-004**	**4.0000e-004**	**0.0000**	**0.0000**	**4.2000e-004**

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	8.6500e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0507					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	2.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	4.0000e-004	4.0000e-004	0.0000	0.0000	4.2000e-004
Total	**0.0594**	**0.0000**	**2.0000e-004**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**4.0000e-004**	**4.0000e-004**	**0.0000**	**0.0000**	**4.2000e-004**

7.0 Water Detail

7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Toilet

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	6.5169	0.0478	1.1700e-003	8.0618
Unmitigated	7.4359	0.0545	1.3400e-003	9.1988

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Light Industry	1.665 / 0	7.4359	0.0545	1.3400e-003	9.1988
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		**7.4359**	**0.0545**	**1.3400e-003**	**9.1988**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Light Industry	1.45921 / 0	6.5169	0.0478	1.1700e-003	8.0618
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		**6.5169**	**0.0478**	**1.1700e-003**	**8.0618**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	1.8127	0.1071	0.0000	4.4909
Unmitigated	1.8127	0.1071	0.0000	4.4909

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	8.93	1.8127	0.1071	0.0000	4.4909
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		**1.8127**	**0.1071**	**0.0000**	**4.4909**

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	8.93	1.8127	0.1071	0.0000	4.4909
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		**1.8127**	**0.1071**	**0.0000**	**4.4909**

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Truck Terminal Facility, SBC, Wiener

San Bernardino-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	7.20	1000sqft	0.17	7,200.00	0
Other Non-Asphalt Surfaces	1.34	Acre	1.34	58,370.40	0
Parking Lot	7.43	Acre	7.43	323,650.80	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	32
Climate Zone	10			**Operational Year**	2022
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Per Site Plan

Construction Phase -

Vehicle Trips - Per TIA...716 total daily Trips

Construction Off-road Equipment Mitigation - 55% reduction is 2x and day. Therefore, 3x a day is 82.5%

Mobile Land Use Mitigation -

Mobile Commute Mitigation -

Area Mitigation -

Energy Mitigation -

Water Mitigation -

Fleet Mix - Per TIA

Truck Terminal Facility, SBC, Wiener - San Bernardino-South Coast County, Summer

Table Name	Column Name	Default Value	New Value
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblConstDustMitigation	WaterExposedAreaPM10PercentReduction	61	82.5
tblConstDustMitigation	WaterExposedAreaPM25PercentReduction	61	82.5
tblFleetMix	HHD	0.06	0.45
tblFleetMix	LDA	0.55	0.40
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT2	0.18	0.00
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD2	5.1010e-003	0.00
tblFleetMix	MCY	5.9030e-003	0.00
tblFleetMix	MDV	0.12	0.00
tblFleetMix	MH	9.4400e-004	0.00
tblFleetMix	MHD	0.02	0.15
tblFleetMix	OBUS	1.3570e-003	0.00
tblFleetMix	SBUS	8.0800e-004	0.00
tblFleetMix	UBUS	1.5650e-003	0.00
tblVehicleTrips	ST_TR	1.32	99.44
tblVehicleTrips	SU_TR	0.68	99.44
tblVehicleTrips	WD_TR	6.97	99.44

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	3.9796	40.5536	24.4845	0.0621	18.2675	2.0458	20.3132	9.9840	1.8821	11.8661	0.0000	6,158.0867	6,158.0867	1.1976	0.0000	6,177.6336
2022	9.0103	21.9295	23.6361	0.0613	2.2319	0.8292	3.0611	0.6012	0.7801	1.3813	0.0000	6,080.1041	6,080.1041	0.7686	0.0000	6,099.3188
Maximum	**9.0103**	**40.5536**	**24.4845**	**0.0621**	**18.2675**	**2.0458**	**20.3132**	**9.9840**	**1.8821**	**11.8661**	**0.0000**	**6,158.0867**	**6,158.0867**	**1.1976**	**0.0000**	**6,177.6336**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	3.9796	40.5536	24.4845	0.0621	3.3628	2.0458	5.4085	1.7912	1.8821	3.6733	0.0000	6,158.0867	6,158.0867	1.1976	0.0000	6,177.6335
2022	9.0103	21.9295	23.6361	0.0613	2.2319	0.8292	3.0611	0.6012	0.7801	1.3813	0.0000	6,080.1041	6,080.1041	0.7686	0.0000	6,099.3188
Maximum	**9.0103**	**40.5536**	**24.4845**	**0.0621**	**3.3628**	**2.0458**	**5.4085**	**1.7912**	**1.8821**	**3.6733**	**0.0000**	**6,158.0867**	**6,158.0867**	**1.1976**	**0.0000**	**6,177.6335**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**72.71**	**0.00**	**63.77**	**77.40**	**0.00**	**61.84**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.3254	1.0000e-005	1.6300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		3.5000e-003	3.5000e-003	1.0000e-005		3.7300e-003
Energy	6.9100e-003	0.0628	0.0528	3.8000e-004		4.7800e-003	4.7800e-003		4.7800e-003	4.7800e-003		75.3998	75.3998	1.4500e-003	1.3800e-003	75.8479
Mobile	1.8601	60.1374	15.9089	0.2217	7.3460	0.1356	7.4815	2.0219	0.1292	2.1511		23,346.2541	23,346.2541	1.2532		23,377.5835
Total	**2.1924**	**60.2002**	**15.9633**	**0.2221**	**7.3460**	**0.1404**	**7.4863**	**2.0219**	**0.1340**	**2.1559**		**23,421.6575**	**23,421.6575**	**1.2546**	**1.3800e-003**	**23,453.4351**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.3254	1.0000e-005	1.6300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		3.5000e-003	3.5000e-003	1.0000e-005		3.7300e-003
Energy	6.9100e-003	0.0628	0.0528	3.8000e-004		4.7800e-003	4.7800e-003		4.7800e-003	4.7800e-003		75.3998	75.3998	1.4500e-003	1.3800e-003	75.8479
Mobile	1.6050	53.6786	12.8271	0.1743	5.3153	0.1002	5.4155	1.4630	0.0955	1.5585		18,360.2924	18,360.2924	1.1541		18,389.1440
Total	**1.9373**	**53.7414**	**12.8815**	**0.1747**	**5.3153**	**0.1050**	**5.4203**	**1.4630**	**0.1003**	**1.5633**		**18,435.6957**	**18,435.6957**	**1.1555**	**1.3800e-003**	**18,464.9957**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**11.63**	**10.73**	**19.31**	**21.35**	**27.64**	**25.20**	**27.60**	**27.64**	**25.17**	**27.49**	**0.00**	**21.29**	**21.29**	**7.90**	**0.00**	**21.27**

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	5/28/2021	6/10/2021	5	10	
2	Grading	Grading	6/11/2021	7/8/2021	5	20	
3	Building Construction	Building Construction	7/9/2021	5/26/2022	5	230	
4	Paving	Paving	5/27/2022	6/23/2022	5	20	
5	Architectural Coating	Architectural Coating	6/24/2022	7/21/2022	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 10

Acres of Paving: 8.77

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 10,800; Non-Residential Outdoor: 3,600; Striped Parking Area: 22,921 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	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	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	163.00	64.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	33.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Site Preparation - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	3.8882	40.4971	21.1543	0.0380		2.0445	2.0445		1.8809	1.8809		3,685.6569	3,685.6569	1.1920		3,715.4573
Total	**3.8882**	**40.4971**	**21.1543**	**0.0380**	**18.0663**	**2.0445**	**20.1107**	**9.9307**	**1.8809**	**11.8116**		**3,685.6569**	**3,685.6569**	**1.1920**		**3,715.4573**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
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
Worker	0.0915	0.0565	0.7452	1.9800e-003	0.2012	1.2900e-003	0.2025	0.0534	1.1900e-003	0.0545		196.9345	196.9345	5.6000e-003		197.0746
Total	**0.0915**	**0.0565**	**0.7452**	**1.9800e-003**	**0.2012**	**1.2900e-003**	**0.2025**	**0.0534**	**1.1900e-003**	**0.0545**		**196.9345**	**196.9345**	**5.6000e-003**		**197.0746**

3.2 Site Preparation - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.1616	0.0000	3.1616	1.7379	0.0000	1.7379			0.0000			0.0000
Off-Road	3.8882	40.4971	21.1543	0.0380		2.0445	2.0445		1.8809	1.8809	0.0000	3,685.6569	3,685.6569	1.1920		3,715.4573
Total	**3.8882**	**40.4971**	**21.1543**	**0.0380**	**3.1616**	**2.0445**	**5.2061**	**1.7379**	**1.8809**	**3.6188**	**0.0000**	**3,685.6569**	**3,685.6569**	**1.1920**		**3,715.4573**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
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
Worker	0.0915	0.0565	0.7452	1.9800e-003	0.2012	1.2900e-003	0.2025	0.0534	1.1900e-003	0.0545		196.9345	196.9345	5.6000e-003		197.0746
Total	**0.0915**	**0.0565**	**0.7452**	**1.9800e-003**	**0.2012**	**1.2900e-003**	**0.2025**	**0.0534**	**1.1900e-003**	**0.0545**		**196.9345**	**196.9345**	**5.6000e-003**		**197.0746**

3.3 Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	2.2903	24.7367	15.8575	0.0296		1.1599	1.1599		1.0671	1.0671		2,871.9285	2,871.9285	0.9288		2,895.1495
Total	**2.2903**	**24.7367**	**15.8575**	**0.0296**	**6.5523**	**1.1599**	**7.7123**	**3.3675**	**1.0671**	**4.4346**		**2,871.9285**	**2,871.9285**	**0.9288**		**2,895.1495**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
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
Worker	0.0762	0.0471	0.6210	1.6500e-003	0.1677	1.0700e-003	0.1687	0.0445	9.9000e-004	0.0455		164.1121	164.1121	4.6700e-003		164.2289
Total	**0.0762**	**0.0471**	**0.6210**	**1.6500e-003**	**0.1677**	**1.0700e-003**	**0.1687**	**0.0445**	**9.9000e-004**	**0.0455**		**164.1121**	**164.1121**	**4.6700e-003**		**164.2289**

3.3 Grading - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.1467	0.0000	1.1467	0.5893	0.0000	0.5893			0.0000			0.0000
Off-Road	2.2903	24.7367	15.8575	0.0296		1.1599	1.1599		1.0671	1.0671	0.0000	2,871.9285	2,871.9285	0.9288		2,895.1495
Total	**2.2903**	**24.7367**	**15.8575**	**0.0296**	**1.1467**	**1.1599**	**2.3066**	**0.5893**	**1.0671**	**1.6564**	**0.0000**	**2,871.9285**	**2,871.9285**	**0.9288**		**2,895.1495**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
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
Worker	0.0762	0.0471	0.6210	1.6500e-003	0.1677	1.0700e-003	0.1687	0.0445	9.9000e-004	0.0455		164.1121	164.1121	4.6700e-003		164.2289
Total	**0.0762**	**0.0471**	**0.6210**	**1.6500e-003**	**0.1677**	**1.0700e-003**	**0.1687**	**0.0445**	**9.9000e-004**	**0.0455**		**164.1121**	**164.1121**	**4.6700e-003**		**164.2289**

3.4 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013		2,553.3639	2,553.3639	0.6160		2,568.7643
Total	**1.9009**	**17.4321**	**16.5752**	**0.0269**		**0.9586**	**0.9586**		**0.9013**	**0.9013**		**2,553.3639**	**2,553.3639**	**0.6160**		**2,568.7643**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1656	6.1720	1.1614	0.0173	0.4099	0.0106	0.4205	0.1180	0.0101	0.1282		1,821.3716	1,821.3716	0.1151		1,824.2491
Worker	0.8282	0.5119	6.7479	0.0179	1.8220	0.0117	1.8336	0.4832	0.0107	0.4939		1,783.3513	1,783.3513	0.0508		1,784.6202
Total	**0.9938**	**6.6839**	**7.9093**	**0.0352**	**2.2319**	**0.0222**	**2.2541**	**0.6012**	**0.0209**	**0.6221**		**3,604.7228**	**3,604.7228**	**0.1659**		**3,608.8693**

3.4 Building Construction - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643
Total	**1.9009**	**17.4321**	**16.5752**	**0.0269**		**0.9586**	**0.9586**		**0.9013**	**0.9013**	**0.0000**	**2,553.3639**	**2,553.3639**	**0.6160**		**2,568.7643**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1656	6.1720	1.1614	0.0173	0.4099	0.0106	0.4205	0.1180	0.0101	0.1282		1,821.3716	1,821.3716	0.1151		1,824.2491
Worker	0.8282	0.5119	6.7479	0.0179	1.8220	0.0117	1.8336	0.4832	0.0107	0.4939		1,783.3513	1,783.3513	0.0508		1,784.6202
Total	**0.9938**	**6.6839**	**7.9093**	**0.0352**	**2.2319**	**0.0222**	**2.2541**	**0.6012**	**0.0209**	**0.6221**		**3,604.7228**	**3,604.7228**	**0.1659**		**3,608.8693**

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	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.3336	2,554.3336	0.6120		2,569.6322
Total	**1.7062**	**15.6156**	**16.3634**	**0.0269**		**0.8090**	**0.8090**		**0.7612**	**0.7612**		**2,554.3336**	**2,554.3336**	**0.6120**		**2,569.6322**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1543	5.8536	1.0738	0.0171	0.4099	8.8900e-003	0.4188	0.1180	8.5000e-003	0.1265		1,806.7685	1,806.7685	0.1111		1,809.5465
Worker	0.7734	0.4603	6.1990	0.0173	1.8220	0.0113	1.8333	0.4832	0.0104	0.4936		1,719.0020	1,719.0020	0.0455		1,720.1401
Total	**0.9277**	**6.3138**	**7.2727**	**0.0344**	**2.2319**	**0.0202**	**2.2521**	**0.6012**	**0.0189**	**0.6201**		**3,525.7705**	**3,525.7705**	**0.1567**		**3,529.6866**

3.4 Building Construction - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322
Total	**1.7062**	**15.6156**	**16.3634**	**0.0269**		**0.8090**	**0.8090**		**0.7612**	**0.7612**	**0.0000**	**2,554.3336**	**2,554.3336**	**0.6120**		**2,569.6322**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1543	5.8536	1.0738	0.0171	0.4099	8.8900e-003	0.4188	0.1180	8.5000e-003	0.1265		1,806.7685	1,806.7685	0.1111		1,809.5465
Worker	0.7734	0.4603	6.1990	0.0173	1.8220	0.0113	1.8333	0.4832	0.0104	0.4936		1,719.0020	1,719.0020	0.0455		1,720.1401
Total	**0.9277**	**6.3138**	**7.2727**	**0.0344**	**2.2319**	**0.0202**	**2.2521**	**0.6012**	**0.0189**	**0.6201**		**3,525.7705**	**3,525.7705**	**0.1567**		**3,529.6866**

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	lb/day										lb/day					
Off-Road	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225		2,207.6603	2,207.6603	0.7140		2,225.5104
Paving	0.9733					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**2.0762**	**11.1249**	**14.5805**	**0.0228**		**0.5679**	**0.5679**		**0.5225**	**0.5225**		**2,207.6603**	**2,207.6603**	**0.7140**		**2,225.5104**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
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
Worker	0.0712	0.0424	0.5705	1.5900e-003	0.1677	1.0400e-003	0.1687	0.0445	9.6000e-004	0.0454		158.1904	158.1904	4.1900e-003		158.2951
Total	**0.0712**	**0.0424**	**0.5705**	**1.5900e-003**	**0.1677**	**1.0400e-003**	**0.1687**	**0.0445**	**9.6000e-004**	**0.0454**		**158.1904**	**158.1904**	**4.1900e-003**		**158.2951**

3.5 Paving - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225	0.0000	2,207.6603	2,207.6603	0.7140		2,225.5104
Paving	0.9733					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**2.0762**	**11.1249**	**14.5805**	**0.0228**		**0.5679**	**0.5679**		**0.5225**	**0.5225**	**0.0000**	**2,207.6603**	**2,207.6603**	**0.7140**		**2,225.5104**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
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
Worker	0.0712	0.0424	0.5705	1.5900e-003	0.1677	1.0400e-003	0.1687	0.0445	9.6000e-004	0.0454		158.1904	158.1904	4.1900e-003		158.2951
Total	**0.0712**	**0.0424**	**0.5705**	**1.5900e-003**	**0.1677**	**1.0400e-003**	**0.1687**	**0.0445**	**9.6000e-004**	**0.0454**		**158.1904**	**158.1904**	**4.1900e-003**		**158.2951**

3.6 Architectural Coating - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	8.6491					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062
Total	**8.8537**	**1.4085**	**1.8136**	**2.9700e-003**		**0.0817**	**0.0817**		**0.0817**	**0.0817**		**281.4481**	**281.4481**	**0.0183**		**281.9062**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
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
Worker	0.1566	0.0932	1.2550	3.4900e-003	0.3689	2.2900e-003	0.3712	0.0978	2.1100e-003	0.0999		348.0188	348.0188	9.2200e-003		348.2492
Total	**0.1566**	**0.0932**	**1.2550**	**3.4900e-003**	**0.3689**	**2.2900e-003**	**0.3712**	**0.0978**	**2.1100e-003**	**0.0999**		**348.0188**	**348.0188**	**9.2200e-003**		**348.2492**

3.6 Architectural Coating - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	8.6491					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062
Total	**8.8537**	**1.4085**	**1.8136**	**2.9700e-003**		**0.0817**	**0.0817**		**0.0817**	**0.0817**	**0.0000**	**281.4481**	**281.4481**	**0.0183**		**281.9062**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
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
Worker	0.1566	0.0932	1.2550	3.4900e-003	0.3689	2.2900e-003	0.3712	0.0978	2.1100e-003	0.0999		348.0188	348.0188	9.2200e-003		348.2492
Total	**0.1566**	**0.0932**	**1.2550**	**3.4900e-003**	**0.3689**	**2.2900e-003**	**0.3712**	**0.0978**	**2.1100e-003**	**0.0999**		**348.0188**	**348.0188**	**9.2200e-003**		**348.2492**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Improve Walkability Design

Improve Destination Accessibility

Increase Transit Accessibility

Improve Pedestrian Network

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.6050	53.6786	12.8271	0.1743	5.3153	0.1002	5.4155	1.4630	0.0955	1.5585		18,360.2924	18,360.2924	1.1541		18,389.1440
Unmitigated	1.8601	60.1374	15.9089	0.2217	7.3460	0.1356	7.4815	2.0219	0.1292	2.1511		23,346.2541	23,346.2541	1.2532		23,377.5835

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	715.97	715.97	715.97	3,170,505	2,294,093
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	715.97	715.97	715.97	3,170,505	2,294,093

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Light Industry	16.60	8.40	6.90	59.00	28.00	13.00	92	5	3
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	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	0.400000	0.000000	0.000000	0.000000	0.000000	0.000000	0.150000	0.450000	0.000000	0.000000	0.000000	0.000000	0.000000
Other Non-Asphalt Surfaces	0.553113	0.036408	0.180286	0.116335	0.016165	0.005101	0.018218	0.063797	0.001357	0.001565	0.005903	0.000808	0.000944
Parking Lot	0.553113	0.036408	0.180286	0.116335	0.016165	0.005101	0.018218	0.063797	0.001357	0.001565	0.005903	0.000808	0.000944

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	6.9100e-003	0.0628	0.0528	3.8000e-004		4.7800e-003	4.7800e-003		4.7800e-003	4.7800e-003		75.3998	75.3998	1.4500e-003	1.3800e-003	75.8479
NaturalGas Unmitigated	6.9100e-003	0.0628	0.0528	3.8000e-004		4.7800e-003	4.7800e-003		4.7800e-003	4.7800e-003		75.3998	75.3998	1.4500e-003	1.3800e-003	75.8479

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Light Industry	640.899	6.9100e-003	0.0628	0.0528	3.8000e-004		4.7800e-003	4.7800e-003		4.7800e-003	4.7800e-003		75.3998	75.3998	1.4500e-003	1.3800e-003	75.8479
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
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
Total		**6.9100e-003**	**0.0628**	**0.0528**	**3.8000e-004**		**4.7800e-003**	**4.7800e-003**		**4.7800e-003**	**4.7800e-003**		**75.3998**	**75.3998**	**1.4500e-003**	**1.3800e-003**	**75.8479**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Light Industry	0.640899	6.9100e-003	0.0628	0.0528	3.8000e-004		4.7800e-003	4.7800e-003		4.7800e-003	4.7800e-003		75.3998	75.3998	1.4500e-003	1.3800e-003	75.8479
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
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
Total		**6.9100e-003**	**0.0628**	**0.0528**	**3.8000e-004**		**4.7800e-003**	**4.7800e-003**		**4.7800e-003**	**4.7800e-003**		**75.3998**	**75.3998**	**1.4500e-003**	**1.3800e-003**	**75.8479**

6.0 Area Detail

6.1 Mitigation Measures Area

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

No Hearths Installed

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.3254	1.0000e-005	1.6300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		3.5000e-003	3.5000e-003	1.0000e-005		3.7300e-003
Unmitigated	0.3254	1.0000e-005	1.6300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		3.5000e-003	3.5000e-003	1.0000e-005		3.7300e-003

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0474					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.2779					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.5000e-004	1.0000e-005	1.6300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		3.5000e-003	3.5000e-003	1.0000e-005		3.7300e-003
Total	**0.3254**	**1.0000e-005**	**1.6300e-003**	**0.0000**		**1.0000e-005**	**1.0000e-005**		**1.0000e-005**	**1.0000e-005**		**3.5000e-003**	**3.5000e-003**	**1.0000e-005**		**3.7300e-003**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0474					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.2779					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.5000e-004	1.0000e-005	1.6300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		3.5000e-003	3.5000e-003	1.0000e-005		3.7300e-003
Total	**0.3254**	**1.0000e-005**	**1.6300e-003**	**0.0000**		**1.0000e-005**	**1.0000e-005**		**1.0000e-005**	**1.0000e-005**		**3.5000e-003**	**3.5000e-003**	**1.0000e-005**		**3.7300e-003**

7.0 Water Detail

7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Toilet

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Truck Terminal Facility, SBC, Wiener

San Bernardino-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	7.20	1000sqft	0.17	7,200.00	0
Other Non-Asphalt Surfaces	1.34	Acre	1.34	58,370.40	0
Parking Lot	7.43	Acre	7.43	323,650.80	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	32
Climate Zone	10			**Operational Year**	2022
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Per Site Plan

Construction Phase -

Vehicle Trips - Per TIA...716 total daily Trips

Construction Off-road Equipment Mitigation - 55% reduction is 2x and day. Therefore, 3x a day is 82.5%

Mobile Land Use Mitigation -

Mobile Commute Mitigation -

Area Mitigation -

Energy Mitigation -

Water Mitigation -

Fleet Mix - Per TIA

Truck Terminal Facility, SBC, Wiener - San Bernardino-South Coast County, Winter

Table Name	Column Name	Default Value	New Value
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblConstDustMitigation	WaterExposedAreaPM10PercentReduction	61	82.5
tblConstDustMitigation	WaterExposedAreaPM25PercentReduction	61	82.5
tblFleetMix	HHD	0.06	0.45
tblFleetMix	LDA	0.55	0.40
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT2	0.18	0.00
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD2	5.1010e-003	0.00
tblFleetMix	MCY	5.9030e-003	0.00
tblFleetMix	MDV	0.12	0.00
tblFleetMix	MH	9.4400e-004	0.00
tblFleetMix	MHD	0.02	0.15
tblFleetMix	OBUS	1.3570e-003	0.00
tblFleetMix	SBUS	8.0800e-004	0.00
tblFleetMix	UBUS	1.5650e-003	0.00
tblVehicleTrips	ST_TR	1.32	99.44
tblVehicleTrips	SU_TR	0.68	99.44
tblVehicleTrips	WD_TR	6.97	99.44

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	3.9798	40.5566	23.4685	0.0596	18.2675	2.0458	20.3132	9.9840	1.8821	11.8661	0.0000	5,903.8299	5,903.8299	1.1969	0.0000	5,923.5331
2022	9.0110	21.8843	22.7007	0.0589	2.2319	0.8295	3.0613	0.6012	0.7803	1.3815	0.0000	5,832.5916	5,832.5916	0.7753	0.0000	5,851.9732
Maximum	**9.0110**	**40.5566**	**23.4685**	**0.0596**	**18.2675**	**2.0458**	**20.3132**	**9.9840**	**1.8821**	**11.8661**	**0.0000**	**5,903.8299**	**5,903.8299**	**1.1969**	**0.0000**	**5,923.5331**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	3.9798	40.5566	23.4685	0.0596	3.3628	2.0458	5.4085	1.7912	1.8821	3.6733	0.0000	5,903.8299	5,903.8299	1.1969	0.0000	5,923.5331
2022	9.0110	21.8843	22.7007	0.0589	2.2319	0.8295	3.0613	0.6012	0.7803	1.3815	0.0000	5,832.5916	5,832.5916	0.7753	0.0000	5,851.9732
Maximum	**9.0110**	**40.5566**	**23.4685**	**0.0596**	**3.3628**	**2.0458**	**5.4085**	**1.7912**	**1.8821**	**3.6733**	**0.0000**	**5,903.8299**	**5,903.8299**	**1.1969**	**0.0000**	**5,923.5331**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**72.71**	**0.00**	**63.76**	**77.40**	**0.00**	**61.84**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.3254	1.0000e-005	1.6300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		3.5000e-003	3.5000e-003	1.0000e-005		3.7300e-003
Energy	6.9100e-003	0.0628	0.0528	3.8000e-004		4.7800e-003	4.7800e-003		4.7800e-003	4.7800e-003		75.3998	75.3998	1.4500e-003	1.3800e-003	75.8479
Mobile	1.8828	59.7784	16.4356	0.2128	7.3460	0.1382	7.4841	2.0219	0.1317	2.1536		22,420.0823	22,420.0823	1.3695		22,454.3195
Total	**2.2151**	**59.8413**	**16.4900**	**0.2132**	**7.3460**	**0.1430**	**7.4889**	**2.0219**	**0.1364**	**2.1584**		**22,495.4856**	**22,495.4856**	**1.3710**	**1.3800e-003**	**22,530.1712**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.3254	1.0000e-005	1.6300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		3.5000e-003	3.5000e-003	1.0000e-005		3.7300e-003
Energy	6.9100e-003	0.0628	0.0528	3.8000e-004		4.7800e-003	4.7800e-003		4.7800e-003	4.7800e-003		75.3998	75.3998	1.4500e-003	1.3800e-003	75.8479
Mobile	1.6316	53.0211	13.7091	0.1660	5.3153	0.1028	5.4181	1.4630	0.0979	1.5610		17,496.1891	17,496.1891	1.2720		17,527.9882
Total	**1.9640**	**53.0839**	**13.7635**	**0.1664**	**5.3153**	**0.1076**	**5.4229**	**1.4630**	**0.1027**	**1.5658**		**17,571.5924**	**17,571.5924**	**1.2734**	**1.3800e-003**	**17,603.8398**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**11.34**	**11.29**	**16.53**	**21.94**	**27.64**	**24.75**	**27.59**	**27.64**	**24.71**	**27.46**	**0.00**	**21.89**	**21.89**	**7.11**	**0.00**	**21.87**

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	5/28/2021	6/10/2021	5	10	
2	Grading	Grading	6/11/2021	7/8/2021	5	20	
3	Building Construction	Building Construction	7/9/2021	5/26/2022	5	230	
4	Paving	Paving	5/27/2022	6/23/2022	5	20	
5	Architectural Coating	Architectural Coating	6/24/2022	7/21/2022	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 10

Acres of Paving: 8.77

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 10,800; Non-Residential Outdoor: 3,600; Striped Parking Area: 22,921 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	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	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	163.00	64.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	33.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Site Preparation - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	3.8882	40.4971	21.1543	0.0380		2.0445	2.0445		1.8809	1.8809		3,685.6569	3,685.6569	1.1920		3,715.4573
Total	**3.8882**	**40.4971**	**21.1543**	**0.0380**	**18.0663**	**2.0445**	**20.1107**	**9.9307**	**1.8809**	**11.8116**		**3,685.6569**	**3,685.6569**	**1.1920**		**3,715.4573**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
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
Worker	0.0917	0.0595	0.6112	1.7700e-003	0.2012	1.2900e-003	0.2025	0.0534	1.1900e-003	0.0545		176.6696	176.6696	4.9200e-003		176.7925
Total	**0.0917**	**0.0595**	**0.6112**	**1.7700e-003**	**0.2012**	**1.2900e-003**	**0.2025**	**0.0534**	**1.1900e-003**	**0.0545**		**176.6696**	**176.6696**	**4.9200e-003**		**176.7925**

3.2 Site Preparation - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.1616	0.0000	3.1616	1.7379	0.0000	1.7379			0.0000			0.0000
Off-Road	3.8882	40.4971	21.1543	0.0380		2.0445	2.0445		1.8809	1.8809	0.0000	3,685.6569	3,685.6569	1.1920		3,715.4573
Total	**3.8882**	**40.4971**	**21.1543**	**0.0380**	**3.1616**	**2.0445**	**5.2061**	**1.7379**	**1.8809**	**3.6188**	**0.0000**	**3,685.6569**	**3,685.6569**	**1.1920**		**3,715.4573**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
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
Worker	0.0917	0.0595	0.6112	1.7700e-003	0.2012	1.2900e-003	0.2025	0.0534	1.1900e-003	0.0545		176.6696	176.6696	4.9200e-003		176.7925
Total	**0.0917**	**0.0595**	**0.6112**	**1.7700e-003**	**0.2012**	**1.2900e-003**	**0.2025**	**0.0534**	**1.1900e-003**	**0.0545**		**176.6696**	**176.6696**	**4.9200e-003**		**176.7925**

3.3 Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	2.2903	24.7367	15.8575	0.0296		1.1599	1.1599		1.0671	1.0671		2,871.9285	2,871.9285	0.9288		2,895.1495
Total	**2.2903**	**24.7367**	**15.8575**	**0.0296**	**6.5523**	**1.1599**	**7.7123**	**3.3675**	**1.0671**	**4.4346**		**2,871.9285**	**2,871.9285**	**0.9288**		**2,895.1495**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
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
Worker	0.0764	0.0496	0.5093	1.4800e-003	0.1677	1.0700e-003	0.1687	0.0445	9.9000e-004	0.0455		147.2247	147.2247	4.1000e-003		147.3271
Total	**0.0764**	**0.0496**	**0.5093**	**1.4800e-003**	**0.1677**	**1.0700e-003**	**0.1687**	**0.0445**	**9.9000e-004**	**0.0455**		**147.2247**	**147.2247**	**4.1000e-003**		**147.3271**

3.3 Grading - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.1467	0.0000	1.1467	0.5893	0.0000	0.5893			0.0000			0.0000
Off-Road	2.2903	24.7367	15.8575	0.0296		1.1599	1.1599		1.0671	1.0671	0.0000	2,871.9285	2,871.9285	0.9288		2,895.1495
Total	**2.2903**	**24.7367**	**15.8575**	**0.0296**	**1.1467**	**1.1599**	**2.3066**	**0.5893**	**1.0671**	**1.6564**	**0.0000**	**2,871.9285**	**2,871.9285**	**0.9288**		**2,895.1495**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
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
Worker	0.0764	0.0496	0.5093	1.4800e-003	0.1677	1.0700e-003	0.1687	0.0445	9.9000e-004	0.0455		147.2247	147.2247	4.1000e-003		147.3271
Total	**0.0764**	**0.0496**	**0.5093**	**1.4800e-003**	**0.1677**	**1.0700e-003**	**0.1687**	**0.0445**	**9.9000e-004**	**0.0455**		**147.2247**	**147.2247**	**4.1000e-003**		**147.3271**

3.4 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013		2,553.3639	2,553.3639	0.6160		2,568.7643
Total	**1.9009**	**17.4321**	**16.5752**	**0.0269**		**0.9586**	**0.9586**		**0.9013**	**0.9013**		**2,553.3639**	**2,553.3639**	**0.6160**		**2,568.7643**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1757	6.1063	1.3585	0.0166	0.4099	0.0109	0.4208	0.1180	0.0104	0.1284		1,750.6248	1,750.6248	0.1276		1,753.8143
Worker	0.8300	0.5384	5.5348	0.0161	1.8220	0.0117	1.8336	0.4832	0.0107	0.4939		1,599.8412	1,599.8412	0.0445		1,600.9545
Total	**1.0057**	**6.6447**	**6.8933**	**0.0327**	**2.2319**	**0.0225**	**2.2544**	**0.6012**	**0.0211**	**0.6224**		**3,350.4660**	**3,350.4660**	**0.1721**		**3,354.7688**

3.4 Building Construction - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643
Total	**1.9009**	**17.4321**	**16.5752**	**0.0269**		**0.9586**	**0.9586**		**0.9013**	**0.9013**	**0.0000**	**2,553.3639**	**2,553.3639**	**0.6160**		**2,568.7643**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1757	6.1063	1.3585	0.0166	0.4099	0.0109	0.4208	0.1180	0.0104	0.1284		1,750.6248	1,750.6248	0.1276		1,753.8143
Worker	0.8300	0.5384	5.5348	0.0161	1.8220	0.0117	1.8336	0.4832	0.0107	0.4939		1,599.8412	1,599.8412	0.0445		1,600.9545
Total	**1.0057**	**6.6447**	**6.8933**	**0.0327**	**2.2319**	**0.0225**	**2.2544**	**0.6012**	**0.0211**	**0.6224**		**3,350.4660**	**3,350.4660**	**0.1721**		**3,354.7688**

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	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.3336	2,554.3336	0.6120		2,569.6322
Total	**1.7062**	**15.6156**	**16.3634**	**0.0269**		**0.8090**	**0.8090**		**0.7612**	**0.7612**		**2,554.3336**	**2,554.3336**	**0.6120**		**2,569.6322**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1639	5.7847	1.2611	0.0165	0.4099	9.1500e-003	0.4191	0.1180	8.7500e-003	0.1268		1,736.0400	1,736.0400	0.1234		1,739.1238
Worker	0.7771	0.4839	5.0761	0.0155	1.8220	0.0113	1.8333	0.4832	0.0104	0.4936		1,542.2180	1,542.2180	0.0400		1,543.2172
Total	**0.9410**	**6.2686**	**6.3373**	**0.0319**	**2.2319**	**0.0205**	**2.2523**	**0.6012**	**0.0192**	**0.6204**		**3,278.2580**	**3,278.2580**	**0.1633**		**3,282.3410**

3.4 Building Construction - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322
Total	**1.7062**	**15.6156**	**16.3634**	**0.0269**		**0.8090**	**0.8090**		**0.7612**	**0.7612**	**0.0000**	**2,554.3336**	**2,554.3336**	**0.6120**		**2,569.6322**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1639	5.7847	1.2611	0.0165	0.4099	9.1500e-003	0.4191	0.1180	8.7500e-003	0.1268		1,736.0400	1,736.0400	0.1234		1,739.1238
Worker	0.7771	0.4839	5.0761	0.0155	1.8220	0.0113	1.8333	0.4832	0.0104	0.4936		1,542.2180	1,542.2180	0.0400		1,543.2172
Total	**0.9410**	**6.2686**	**6.3373**	**0.0319**	**2.2319**	**0.0205**	**2.2523**	**0.6012**	**0.0192**	**0.6204**		**3,278.2580**	**3,278.2580**	**0.1633**		**3,282.3410**

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	lb/day										lb/day					
Off-Road	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225		2,207.6603	2,207.6603	0.7140		2,225.5104
Paving	0.9733					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**2.0762**	**11.1249**	**14.5805**	**0.0228**		**0.5679**	**0.5679**		**0.5225**	**0.5225**		**2,207.6603**	**2,207.6603**	**0.7140**		**2,225.5104**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
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
Worker	0.0715	0.0445	0.4671	1.4200e-003	0.1677	1.0400e-003	0.1687	0.0445	9.6000e-004	0.0454		141.9219	141.9219	3.6800e-003		142.0139
Total	**0.0715**	**0.0445**	**0.4671**	**1.4200e-003**	**0.1677**	**1.0400e-003**	**0.1687**	**0.0445**	**9.6000e-004**	**0.0454**		**141.9219**	**141.9219**	**3.6800e-003**		**142.0139**

3.5 Paving - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225	0.0000	2,207.6603	2,207.6603	0.7140		2,225.5104
Paving	0.9733					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**2.0762**	**11.1249**	**14.5805**	**0.0228**		**0.5679**	**0.5679**		**0.5225**	**0.5225**	**0.0000**	**2,207.6603**	**2,207.6603**	**0.7140**		**2,225.5104**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
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
Worker	0.0715	0.0445	0.4671	1.4200e-003	0.1677	1.0400e-003	0.1687	0.0445	9.6000e-004	0.0454		141.9219	141.9219	3.6800e-003		142.0139
Total	**0.0715**	**0.0445**	**0.4671**	**1.4200e-003**	**0.1677**	**1.0400e-003**	**0.1687**	**0.0445**	**9.6000e-004**	**0.0454**		**141.9219**	**141.9219**	**3.6800e-003**		**142.0139**

3.6 Architectural Coating - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	8.6491					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062
Total	**8.8537**	**1.4085**	**1.8136**	**2.9700e-003**		**0.0817**	**0.0817**		**0.0817**	**0.0817**		**281.4481**	**281.4481**	**0.0183**		**281.9062**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
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
Worker	0.1573	0.0980	1.0277	3.1300e-003	0.3689	2.2900e-003	0.3712	0.0978	2.1100e-003	0.0999		312.2282	312.2282	8.0900e-003		312.4305
Total	**0.1573**	**0.0980**	**1.0277**	**3.1300e-003**	**0.3689**	**2.2900e-003**	**0.3712**	**0.0978**	**2.1100e-003**	**0.0999**		**312.2282**	**312.2282**	**8.0900e-003**		**312.4305**

3.6 Architectural Coating - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	8.6491					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062
Total	**8.8537**	**1.4085**	**1.8136**	**2.9700e-003**		**0.0817**	**0.0817**		**0.0817**	**0.0817**	**0.0000**	**281.4481**	**281.4481**	**0.0183**		**281.9062**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
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
Worker	0.1573	0.0980	1.0277	3.1300e-003	0.3689	2.2900e-003	0.3712	0.0978	2.1100e-003	0.0999		312.2282	312.2282	8.0900e-003		312.4305
Total	**0.1573**	**0.0980**	**1.0277**	**3.1300e-003**	**0.3689**	**2.2900e-003**	**0.3712**	**0.0978**	**2.1100e-003**	**0.0999**		**312.2282**	**312.2282**	**8.0900e-003**		**312.4305**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Improve Walkability Design

Improve Destination Accessibility

Increase Transit Accessibility

Improve Pedestrian Network

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.6316	53.0211	13.7091	0.1660	5.3153	0.1028	5.4181	1.4630	0.0979	1.5610		17,496.1891	17,496.1891	1.2720		17,527.9882
Unmitigated	1.8828	59.7784	16.4356	0.2128	7.3460	0.1382	7.4841	2.0219	0.1317	2.1536		22,420.0823	22,420.0823	1.3695		22,454.3195

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	715.97	715.97	715.97	3,170,505	2,294,093
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	715.97	715.97	715.97	3,170,505	2,294,093

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Light Industry	16.60	8.40	6.90	59.00	28.00	13.00	92	5	3
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	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	0.400000	0.000000	0.000000	0.000000	0.000000	0.000000	0.150000	0.450000	0.000000	0.000000	0.000000	0.000000	0.000000
Other Non-Asphalt Surfaces	0.553113	0.036408	0.180286	0.116335	0.016165	0.005101	0.018218	0.063797	0.001357	0.001565	0.005903	0.000808	0.000944
Parking Lot	0.553113	0.036408	0.180286	0.116335	0.016165	0.005101	0.018218	0.063797	0.001357	0.001565	0.005903	0.000808	0.000944

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	6.9100e-003	0.0628	0.0528	3.8000e-004		4.7800e-003	4.7800e-003		4.7800e-003	4.7800e-003		75.3998	75.3998	1.4500e-003	1.3800e-003	75.8479
NaturalGas Unmitigated	6.9100e-003	0.0628	0.0528	3.8000e-004		4.7800e-003	4.7800e-003		4.7800e-003	4.7800e-003		75.3998	75.3998	1.4500e-003	1.3800e-003	75.8479

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Light Industry	640.899	6.9100e-003	0.0628	0.0528	3.8000e-004		4.7800e-003	4.7800e-003		4.7800e-003	4.7800e-003		75.3998	75.3998	1.4500e-003	1.3800e-003	75.8479
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
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
Total		**6.9100e-003**	**0.0628**	**0.0528**	**3.8000e-004**		**4.7800e-003**	**4.7800e-003**		**4.7800e-003**	**4.7800e-003**		**75.3998**	**75.3998**	**1.4500e-003**	**1.3800e-003**	**75.8479**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Light Industry	0.640899	6.9100e-003	0.0628	0.0528	3.8000e-004		4.7800e-003	4.7800e-003		4.7800e-003	4.7800e-003		75.3998	75.3998	1.4500e-003	1.3800e-003	75.8479
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
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
Total		**6.9100e-003**	**0.0628**	**0.0528**	**3.8000e-004**		**4.7800e-003**	**4.7800e-003**		**4.7800e-003**	**4.7800e-003**		**75.3998**	**75.3998**	**1.4500e-003**	**1.3800e-003**	**75.8479**

6.0 Area Detail

6.1 Mitigation Measures Area

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

No Hearths Installed

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.3254	1.0000e-005	1.6300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		3.5000e-003	3.5000e-003	1.0000e-005		3.7300e-003
Unmitigated	0.3254	1.0000e-005	1.6300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		3.5000e-003	3.5000e-003	1.0000e-005		3.7300e-003

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0474					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.2779					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.5000e-004	1.0000e-005	1.6300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		3.5000e-003	3.5000e-003	1.0000e-005		3.7300e-003
Total	**0.3254**	**1.0000e-005**	**1.6300e-003**	**0.0000**		**1.0000e-005**	**1.0000e-005**		**1.0000e-005**	**1.0000e-005**		**3.5000e-003**	**3.5000e-003**	**1.0000e-005**		**3.7300e-003**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0474					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.2779					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.5000e-004	1.0000e-005	1.6300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		3.5000e-003	3.5000e-003	1.0000e-005		3.7300e-003
Total	**0.3254**	**1.0000e-005**	**1.6300e-003**	**0.0000**		**1.0000e-005**	**1.0000e-005**		**1.0000e-005**	**1.0000e-005**		**3.5000e-003**	**3.5000e-003**	**1.0000e-005**		**3.7300e-003**

7.0 Water Detail

7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Toilet

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

PROJECT DESCRIPTION:

Summary

David Wiener (Applicant) is proposing the development of a truck terminal facility in the unincorporated community of Bloomington, County of San Bernardino. The facility would provide storage for trailers during delivery off seasons and/or between deliveries. Storage typically ranges from a couple of days to months and these types of sites are typically at a maximum of 80% occupancy. The Project Site is an 8.94-acre existing vacant parcel described as Assessor's Parcel No. 0257-031-12; it is located on the west side of Cedar Avenue, between Slover Avenue and Santa Ana Avenue.

The Proposed Project requires the approval of a Conditional Use Permit (CUP) and Zone Change to change the existing zoning from General Commercial (CG) to Service Commercial (CS). Access into the site would be via a 50-foot wide driveway at a new signalized intersection on Cedar Avenue. Secure access to the facility would then be via rolling gates at the guard shack. The facility would include 275 parking spaces in total: 260 spaces each at 12' by 55', 14 standard car spaces, and 1 handicap accessible space. The Proposed Project includes a 2,400 square-foot building for office use and storage, an approximate 250 square-foot guard shack, and a 4,800 square-foot maintenance shop with four repair bays. The Proposed Project is planned to operate 24 hours a day, seven days a week, and requires less than 10 office and maintenance employees and one full-time employee on-site at all times. The Proposed Project includes 330,035 square-feet of impervious surface and 59,327 square-feet of pervious surface. A stormwater retention basin would be constructed in the southernmost portion of the Project Site. Two 8-foot block walls are proposed, one along the northern boundary and the other along the southern boundary of the Project Site.

Surrounding Land Uses and Setting

The Project Site is within the boundaries of the unincorporated Community of Bloomington, County of San Bernardino. As shown on the County of San Bernardino Land Use Map, the Project Site is within a Commercial land use category. The following table lists the existing adjacent land uses and zoning.

Existing Land Use and Land Use Category			
Location	**Existing Land Use**	**Land Use Category**	**Zoning**
Project Site	Undeveloped and Vacant	Commercial	General Commercial (CG)
North	Single-Family Residential	Commercial Low Density Residential	General Commercial (CG) Single-Family Residential (RS)
South	Commercial and Institutional	Commercial Medium Density Residential	General Commercial (BL/CG-SCp) Multiple Residential (RM)
East	Residential (Mobile Home Park)	Medium Density Residential	Multiple Residential (RM)
West	Undeveloped flood control easement;	Medium Density Residential	Multiple Residential (RM)

Project Site Location, Existing Site Land Uses and Conditions

The Project Site is located approximately 0.5 miles south of Interstate 10 in the unincorporated Community of Bloomington in the County of San Bernardino. It lies along Cedar Avenue, between Santa Ana Avenue and Slover Avenue. The 8.94-acre site is currently vacant, consisting of ruderal grassland and a pile of broken concrete on the north end. Power poles exist along the eastern boundary in the Cedar Avenue right-of-way. Chain link fencing currently blocks entry to the Project Site from the north, east and west boundaries. The Project Site is relatively flat and elevation ranges from approximately 1037 feet to 1050 feet. The Project Site occurs in the Land Use Category of Commercial and zoning of General Commercial (CG). The Proposed Project is pending approval of a Zone Change to Service Commercial (CS). Surrounding land uses are single-family residences to the north; institutional and vacant commercial land uses to the south; undeveloped flood control easement to west, and a mobile home park to the east.

AIR QUALITY ANALYSIS

a) *Would the Project conflict with or obstruct implementation of the applicable air quality plan?*

The Project Site is located in the South Coast Air Basin (SCAB). The South Coast Air Quality Management District (SCAQMD) has jurisdiction over air quality issues and regulations within the SCAB. The Air Quality Management Plan (AQMP) for the basin establishes a program of rules and regulations administered by SCAQMD to obtain attainment of the state and federal air quality standards. The most recent AQMP (2016 AQMP) was adopted by the SCAQMD on March 3, 2017. The 2016 AQMP incorporates the latest scientific and technological information and planning assumptions, including transportation control measures developed by the Southern California Association of Governments (SCAG) from the 2016 Regional Transportation Plan/Sustainable Communities Strategy, and updated emission inventory methodologies for various source categories.

A project is inconsistent with the AQMP if: (1) it does not comply with the approved general plan; or (2) it uses a disproportionately large portion of the forecast growth increment (change population or employment levels). The County of San Bernardino currently designates the Project Site as General Commercial (CG) under which the Proposed project is not an allowable use. The Proposed Project will require a Zone Change to Service Commercial (CS).

An evaluation of potential air quality impacts related to the buildout under the current General Plan (i.e., General Commercial-General Office) and the Proposed Project (i.e., Service Commercial) was prepared. Table 1 and Table 2 illustrate operational emissions associated with the current General Plan Zoning designations and the Proposed Project. As shown in Table 1 and Table 2, operational impacts resulting from either the existing General Plan zoning designations or the Proposed Project would not exceed SCAQMD thresholds. Consequently, the Proposed Project would not result in a conflict or obstruction to the implementation of the AQMP.

Table 1
Operational Emissions
(Pounds per Day)

Source	ROG	NO_X	CO	SO_2	PM_{10}	$PM_{2.5}$
General Office	10.32	33.98	62.54	0.23	16.70	4.59
Proposed Project	1.94	53.74	12.88	0.17	5.42	1.56

SCAQMD Threshold	55	55	550	150	150	55
Significance	**No**	**No**	**No**	**No**	**No**	**No**

Source: CalEEMod.2016.3.2 Summer Emissions

Table 2
Greenhouse Gas Operational Emissions
(Metric Tons per Year)

Source/Phase	CO_2	CH_4	N_20
General Office	3,781.58	3.89	0.04
MTCO2e	**3,890.08**		
Proposed Project	3,037.74	0.36	0.00
MTCO2e	**3,047.22**		

Source: CalEEMod.2016.3.2 Annual Emissions.

Additionally, large population or employment increases could affect transportation control strategies, which are among the most important in the air quality plan, since transportation is a major contributor to particulates and ozone for which the SCAB is not in attainment. Because the Proposed Project does not include activities that would change population or employment levels within the air basin, the Proposed Project would not conflict with or obstruct implementation of the applicable air quality plan. Therefore, no significant impacts are identified or anticipated, and no mitigation measures are required.

Less Than Significant Impact

b) *Would the Project result in a cumulatively considerable net increase of any criteria pollutant for which the Project region is non-attainment under an applicable federal or state ambient air quality standard?*

Construction and operational emissions were screened using CalEEMod version 2016.3.2. The emissions incorporate Rule 402 and 403 by default as required during construction. The criteria pollutants screened for include reactive organic gases (ROG), nitrous oxides (NOx), carbon monoxide (CO), sulfur dioxide (SO2), and particulates (PM_{10} and $PM_{2.5}$). Two of the analyzed pollutants, ROG and NOx, are ozone precursors. Both summer and winter season emission levels were estimated.

The Project Site occurs in the South Coast Air Basin (SCAB). The South Coast Air Quality Management District (SCAQMD) has jurisdiction over air quality issues and regulations within the SCAB. The Air Quality Management Plan (AQMP) for the basin establishes a program of rules and regulations administered by SCAQMD to obtain attainment of the state and federal air quality standards. The most recent AQMP (2016 AQMP) was adopted by the SCAQMD on March 3, 2017. The 2016 AQMP incorporates the latest scientific and technological information and planning assumptions, including transportation control measures developed by the Southern California Association of Governments (SCAG) from the 2016 Regional Transportation Plan/Sustainable Communities Strategy, and updated emission inventory methodologies for various source categories.

<u>Construction Emissions</u>

Construction emissions are considered short-term, temporary emissions and were modeled with the following construction parameters: site preparation, grading (fine and

mass grading), building construction, paving, and architectural coating. Construction is anticipated to begin in late 2021 and be completed in early 2022. The resulting emissions generated by construction of the Proposed Project are shown in Table 3 and Table 4, which represent summer and winter construction emissions, respectively.

Table 3
Summer Construction Emissions Summary
(Pounds per Day)

Source/Phase	ROG	NO_X	CO	SO_2	PM_{10}	$PM_{2.5}$
Site Preparation	3.98	40.56	21.90	0.04	5.41	3.67
Grading	2.37	24.79	16.48	0.03	2.48	1.71
Building Construction	2.89	24.11	24.49	0.07	3.21	1.52
Paving	2.15	11.16	15.15	0.02	0.74	0.57
Architectural Coating	9.01	1.50	3.07	0.00	0.45	0.18
Highest Value (lbs./day)	**9.01**	**40.56**	**24.49**	**0.07**	**5.41**	**3.67**
SCAQMD Threshold	75	100	550	150	150	55
Significant	**No**	**No**	**No**	**No**	**No**	**No**

Source: CalEEMod.2016.3.2 Summer Emissions
Phases do not overlap and represent the highest concentration.

Table 4
Winter Construction Emissions Summary
(Pounds per Day)

Source/Phase	ROG	NO_X	CO	SO_2	PM_{10}	$PM_{2.5}$
Site Preparation	3.98	40.56	21.76	0.04	5.41	3.67
Grading	2.37	24.79	16.37	0.03	2.48	1.71
Building Construction	2.90	24.07	23.47	0.06	3.21	1.52
Paving	2.15	11.16	15.05	0.02	0.74	0.57
Architectural Coating	9.01	1.51	2.84	0.00	0.45	0.18
Highest Value (lbs./day)	**9.01**	**40.56**	**23.47**	**0.06**	**5.41**	**3.67**
SCAQMD Threshold	75	100	550	150	150	55
Significant	**No**	**No**	**No**	**No**	**No**	**No**

Source: CalEEMod.2016.3.2 Winter Emissions.
Phases do not overlap and represent the highest concentration.

Compliance with SCAQMD Rules 402 and 403

Although the Proposed Project does not exceed SCAQMD thresholds for construction emissions, the Project Proponent would be required to comply with all applicable SCAQMD rules and regulations as the SCAB is in non-attainment status for ozone and suspended particulates (PM_{10} and $PM_{2.5}$).

The Project Proponent would be required to comply with Rules 402 nuisance, and 403 fugitive dust, which require the implementation of Best Available Control Measures (BACMs) for each fugitive dust source, and the AQMP, which identifies Best Available

Control Technologies (BACTs) for area sources and point sources. The BACMs and BACTs would include, but not be limited to the following:

1. The Project Proponent shall ensure that any portion of the site to be graded shall be pre-watered prior to the onset of grading activities

    (a) The Project Proponent shall ensure that watering of the site or other soil stabilization method shall be employed on an on-going basis after the initiation of any grading activity on the site. Portions of the site that are actively being graded shall be watered regularly (3x daily) to ensure that a crust is formed on the ground surface and shall be watered at the end of each workday.

    (b) The Project Proponent shall ensure that all disturbed areas are treated to prevent erosion until the site is constructed upon.

    (c) The Project Proponent shall ensure that landscaped areas are installed as soon as possible to reduce the potential for wind erosion.

    (d) The Project Proponent shall ensure that all grading activities are suspended during first and second stage ozone episodes or when winds exceed 25 miles per hour.

During construction, exhaust emissions from construction vehicles and equipment and fugitive dust generated by equipment traveling over exposed surfaces, would increase NOX and PM10 levels in the area. Although the Proposed Project does not exceed SCAQMD thresholds during construction, the Applicant/Contractor would be required to implement the following conditions as required by SCAQMD:

2. To reduce emissions, all equipment used in grading and construction must be tuned and maintained to the manufacturer's specification to maximize efficient burning of vehicle fuel.
3. The Project Proponent shall ensure that existing power sources are utilized where feasible via temporary power poles to avoid on-site power generation during construction.
4. The Project Proponent shall ensure that construction personnel are informed of ride sharing and transit opportunities.
5. All buildings on the Project Site shall conform to energy use guidelines in Title 24 of the California Administrative Code.
6. The operator shall maintain and effectively utilize and schedule on-site equipment in order to minimize exhaust emissions from truck idling.
7. The operator shall comply with all existing and future California Air Resources Board (CARB) and SCAQMD regulations related to diesel-fueled trucks, which may include among others: (1) meeting more stringent emission standards; (2) retrofitting existing engines with particulate traps; (3) use of low sulfur fuel; and (4) use of alternative fuels or equipment.

<u>Operational Emissions</u>

The operational mobile source emissions were calculated using the Traffic Analysis prepared by Urban Crossroads, in June 2020. The Traffic Analysis (TA) determined that the Proposed Project would generate approximately 716 total daily trips. Emissions associated with the Proposed Project's estimated total daily trips were modeled using a

modified fleet mix that is more representative of the Proposed Project's actual uses, based on data obtained from similar operations. Operational emissions are listed in Table 5 and Table 6, which represent summer and winter operational emissions, respectively.

Table 5
Summer Operational Emissions Summary
(Pounds per Day)

Source	ROG	NO_X	CO	SO_2	PM_{10}	$PM_{2.5}$
Area	0.33	0.00	0.00	0.00	0.00	0.00
Energy	0.00	0.06	0.05	0.00	0.00	0.00
Mobile	1.61	53.68	12.83	0.17	5.42	1.56
Totals (lbs./day)	**1.94**	**53.74**	**12.88**	**0.17**	**5.42**	**1.56**
SCAQMD Threshold	55	55	550	150	150	55
Significance	**No**	**No**	**No**	**No**	**No**	**No**

Source: CalEEMod.2016.3.2 Summer Emissions.

Table 6
Winter Operational Emissions Summary
(Pounds per Day)

Source	ROG	NO_X	CO	SO_2	PM_{10}	$PM_{2.5}$
Area	0.33	0.00	0.00	0.00	0.00	0.00
Energy	0.00	0.06	0.05	0.00	0.00	0.00
Mobile	1.63	53.02	13.71	0.17	5.42	1.56
Totals (lbs./day)	**1.96**	**53.08**	**13.76**	**0.17**	**5.42**	**1.56**
SCAQMD Threshold	55	55	550	150	150	55
Significance	**No**	**No**	**No**	**No**	**No**	**No**

Source: CalEEMod.2016.3.2 Winter Emissions.

As shown, both summer and winter season operational emissions are below SCAQMD thresholds. The Proposed Project does not exceed applicable SCAQMD regional thresholds either during construction or operational activities. Therefore, no significant adverse impacts are identified or anticipated, and no mitigation measures are required.

Less Than Significant Impact

c) Would the Project expose sensitive receptors to substantial pollutant concentrations?

SCAQMD has developed a methodology to assess the localized impacts of emissions from a proposed project as outlined within the Final Localized Significance Threshold (LST) Methodology report; completed in June 2003 and revised in July 2008. The use of LSTs is voluntary, to be implemented at the discretion of local public agencies acting as a lead agency pursuant to CEQA. LSTs apply to projects that must undergo CEQA or the National Environmental Policy Act (NEPA) and are five acres or less. LST methodology is incorporated to represent worst-case scenario emissions thresholds. CalEEMod version 2016.3.2 was used to estimate the on-site and off-site construction emissions. The LSTs were developed to analyze the significance of potential air quality impacts of Proposed Projects to sensitive receptors (i.e. schools, single family residences, etc.) and provide screening tables for small projects (one, two, or five acres). Projects are evaluated based on geographic location and distance from the sensitive receptor (25, 50, 100, 200, or 500 meters from the site).

For the purposes of a CEQA analysis, the SCAQMD considers a sensitive receptor to be a receptor such as a residence, hospital, convalescent facility or anywhere that it is

possible for an individual to remain for 24 hours. Additionally, schools, playgrounds, childcare centers, and athletic facilities can also be considered as sensitive receptors. Commercial and industrial facilities are not included in the definition of sensitive receptor because employees do not typically remain on-site for a full 24 hours, but are usually present for shorter periods of time, such as eight hours.

The Project Site is approximately 8.94 acres and therefore the "five-acre" LSTs were utilized for the analysis and represents a worst-case scenario as the larger the site the larger the screening threshold. The nearest sensitive receptor is the residential development located adjacent to the Project Site; therefore, LSTs are based on a 25-meter distance. The Proposed Project's construction and operational emissions with the appropriate LST are presented in Table 7.

Table 7
Localized Significance Thresholds
(Pounds Per Day)

Source	NO_x	CO	PM_{10}		$PM_{2.5}$	
Construction Emissions (Max. from Table 3 and Table 4)	40.56	24.49	5.41		3.67	
Operational Emissions (Max. Total from Table 5 and Table 6)[1]	53.74	13.76	0.54		1.56	
Highest Value (lbs/day)	**53.74**	**24.49**	**5.41**	**0.54**	**3.67**	**1.56**
LST	270	2,075	14*	9†	4*	3†
Greater Than Threshold	**No**	**No**	**No**	**No**	**Yes**	**No**

Sources: CalEEMod.2016.3.2 Summer and Winter Emissions; SCAQMD Final Localized Significance Threshold Methodology; SCAQMD Mass Rate Look-up Tables for a one-acre site in SRA No. 35, distance of 25 meters.
Note: PM10 and PM2.5 emissions are separated into construction and operational thresholds in accordance with the SCAQMD Mass Rate LST Look-up Tables.
* Construction emissions LST
† Operational emissions LST
[1] Per LST Methodology (AEP-SCAQMD Annual Workshop), mobile source emissions are not to be included. Land use emissions and on-site vehicle emissions present onsite emissions. It is estimated that approximately 10 percent of the total mobile emissions would occur on the Project Site.

As shown in Table 7, the Proposed Project's emissions are not anticipated to exceed the LSTs. Therefore, the Proposed Project is not anticipated to expose sensitive receptors to substantial pollutant concentrations. No mitigation measures are required.

Less Than Significant Impact

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

The Proposed Project is the development of a truck terminal facility. Potential odor sources associated with the Proposed Project may result from construction equipment exhaust and the application of asphalt and architectural coatings during construction activities as well as the temporary storage of domestic solid waste associated with the Proposed Project's long-term operational uses. Standard construction requirements would minimize odor impacts resulting from construction activity. It should be noted that any construction odor emissions generated would be temporary, short-term, and intermittent in nature and would cease upon completion of the respective phase of construction activity. It is expected that Project-generated refuse would be stored in covered containers and removed at regular intervals in compliance with County of San Bernardino solid waste regulations. The

Proposed Project would also be required to comply with SCAQMD Rule 402 to prevent occurrences of public nuisances. Therefore, no significant adverse impacts are identified or are anticipated, and no mitigation measures are required.

Less Than Significant Impact

Therefore, no significant adverse impacts are identified or anticipated, and no mitigation measures are required.

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

In September 2011, the County adopted a Greenhouse Gas Emissions (GHG) Reduction Plan (September 2011) (GHG Plan). The GHG Plan presents a comprehensive set of actions to reduce the County's internal and external GHG emissions to 15% below current levels (2007 levels) by 2020, consistent with the AB 32 Scoping Plan. GHG emissions impacts are assessed through the GHG Development Review Process (DRP) by applying appropriate reduction requirements as part of the discretionary approval of new development projects. Through its development review process, the County will implement CEQA requiring new development projects to quantify project GHG emissions and adopt feasible mitigation to reduce project emissions below a level of significance. A review standard of 3,000 metric tons of CO_2 equivalent ($MTCO_2e$) per year is used to identify projects that require the use of Screening Tables or a project-specific technical analysis to quantify and mitigate project emissions. The purpose of the Screening Tables is to provide guidance in measuring the reduction of greenhouse gas emissions attributable to certain design and construction measures incorporated into development projects.

The County's Greenhouse Gas Emissions Reduction Plan (GHG Plan) was adopted on December 6, 2011 and became effective on January 6, 2012. The GHG Plan establishes a GHG emissions reduction target for the year 2020 that is 15 percent below 2007 emissions. The plan is consistent with AB 32 and sets the County on a path to achieve more substantial long-term reductions in the post-2020 period. Achieving this level of emissions will ensure that the contribution to greenhouse gas emissions from activities covered by the GHG Plan will not be cumulatively considerable.

Implementation of the County's GHG Plan is achieved through the Development Review Process by applying appropriate reduction requirements to projects, which reduce GHG emissions. All new developments are required to quantify the project's GHG emissions and adopt feasible mitigation to reduce project emissions below a level of significance. A review standard of 3,000 metric tons of carbon dioxide equivalent (MTCO2e) per year is used to identify and mitigate project emissions.

GHG emissions were screened using CalEEMod version 2016.3.2. The emissions incorporate certain design reduction strategies. Such design reduction strategies included improved walkability by providing sidewalks, improve destination and pedestrian network accessibility. Refer to Tables 9 and 10 for GHG screening.

Table 9
Greenhouse Gas Construction Emissions
(Metric Tons per Year)

Source/Phase	CO_2	CH_4	N_20	CO_2e
Site Preparation	17.54	0.00	0.00	17.67
Grading	27.41	0.00	0.00	27.63
Building Construction (2021)	341.77	0.05	0.00	342.88
Building Construction (2022)	278.67	0.03	0.00	279.58
Paving	21.35	0.00	0.00	21.51
Architectural Coating	5.44	0.00	0.00	5.45
Total MTCO2e	**694.72**			
Amortized over 30 years	**23.2**			

Source: CalEEMod.2016.3.2 Annual Emissions.

Table 10
Greenhouse Gas Operational Emissions
(Metric Tons per Year)

Source/Phase	CO_2	CH_4	N_20	CO_2e
Area	0.00	0.00	0.00	0.00
Energy	71.86	0.00	0.00	72.15
Mobile	2,957.55	0.20	0.00	2,962.52
Waste	1.81	0.11	0.00	4.49
Water	6.52	0.05	0.00	8.06
Construction amortized	**23.2**			
Total MTCO2e	**3,070.4**			
County Screening Threshold	3,000			

Source: CalEEMod.2016.3.2 Annual Emissions.

The Proposed Project would generate approximately 3,070.22 MTCO2e per year and would be exceed the County screening threshold of 3,000 MTCO2e. Therefore, project operational activities were evaluated compared to the San Bernardino County GHG Reduction Plan Screening Tables.

The Proposed Project is anticipated to provide overflow or excess truck trailer storage for nearby warehouses. Although the specific end user(s) are unknown at this time, it is reasonable to assume that the future tenant will select this location at least in part as to how it effects their transportation costs. Businesses who have shipping as a significant part of their operations are sensitive to transportation costs and by extension their relative proximity to customers and suppliers. Therefore, the Proposed Project is anticipated to serve nearby warehouse and distribution facilities that would be looking to locate overflow trailer storage as close as possible to the primary warehouse or distribution facility. As a result, the trips are expected to be local serving and therefore the Proposed Project would tend to shorten vehicle trips (consistent with Reduction Measure R2T6).

There are existing commercial and institutional uses to the south of the Project Site. In addition, the Project Site is located approximately 0.4 miles south of warehouses surrounding the I-10. The Project Site is located within 0.2 miles from intersections and areas with numerous opportunities for employment. Therefore, the Proposed Project includes design features to improve walkability design and improve destination

accessibility. The Proposed Project would provide sidewalks on-site and connecting off-site, which will improve pedestrian network (consistent with Reduction Measure R2T2). In addition, the Proposed Project would remove the existing trucks parked on local roadway segments and residential streets. As a result, the Proposed Project's modeled operational emissions include emissions from existing local sources. Mitigation Measures GHG-1 to GHG-5 shall be implemented to ensure that operational emissions comply with the County's GHG reduction measures as refenced in the screening tables.

Mitigation Measure GHG-1:

During construction, unpaved areas shall be watered twice per day.

Mitigation Measure GHG-2:

Low VOC paint shall be applied to interiors and exteriors of building and to the parking lot.

Mitigation Measure GHG-3:

The Project Applicant shall require that bathroom faucets installed in the proposed structure utilize low-flow fixtures that would reduce flow by 32% per CALGreen Standards (consistent with Reduction Measure R2WC-1) or comply with the County's Uniform Building Code (UBC).

Mitigation Measure GHG-4:

The Project Applicant shall require that toilets installed in the proposed structure utilize low-flow fixtures that would reduce flow by 20% per CALGreen Standards (consistent with Reduction Measure R2WC-1) or comply with the County's UBC.

Mitigation Measure GHG-5:

Prior to final inspection and issuance of occupancy permits, the Project Proponent shall implement a 75 percent Solid Waste Diversion Program by providing separated recycling bins.

With implementation of these Mitigation Measures and design features, the Proposed Project would be in compliance with the County's GHG reduction plan. Less than significant impact is anticipated.

No Impact

b) Would the Project conflict with any applicable plan, policy or regulation of an agency adopted for the purpose of reducing the emissions of greenhouse gases?

The Proposed Project would comply with applicable County GHG Plan strategies. Any project that does not exceed 3,000 MTCO2e per year will be considered to be consistent with the SCAQMD's AQMP and determined to have a less than significant individual and cumulative impact for GHG emissions. With implementation of Mitigation Measures GHG-1 to GHG-5, the Proposed Project would not conflict with any applicable plan, policy or regulation of an agency adopted for the purpose of reducing the emissions of greenhouse gases.

Less than Significant with Mitigation

Therefore, with implementation of Mitigation Measures GHG-1 to GHG-5, impacts would be less than significant.