

# Appendix A

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Notice of Preparation and Comments Received

## PUBLIC UTILITIES COMMISSION

320 WEST 4TH STREET, SUITE 500  
LOS ANGELES, CA 90013



November 20, 2018

Carmela Campbell  
City of Union City  
34009 Alvarado Niles Road  
Union City, CA 94587

*Sent by email: [ccampbell@unioncity.org](mailto:ccampbell@unioncity.org)*

**Re: 2040 Union City General Plan Update  
SCH 2018102057 — Notice of Preparation**

Dear Ms. Campbell:

The California Public Utilities Commission (Commission/CPUC) has jurisdiction over rail crossings (crossings) in California. CPUC ensures that crossings are safely designed, constructed, and maintained. The Commission's Rail Crossings Engineering Branch (RCEB) is in receipt of the *Notice of Preparation (NOP)* for the proposed 2040 Union City General Plan Update. City of Union City (City) is the lead agency.

With the 2040 General Plan Update, the City emphasizes infill and reuse within City limits, encourages higher-density and mixed-use projects, and supports active transportation infrastructure. The Mobility Element and the Special Areas Element of the Preliminary Public Draft indicate plans to modify existing crossings and to construct new at-grade crossings in the future.

The Mobility Element addresses the long-term goals to grade separate existing at-grade crossings at Union City Blvd (CPUC No 001L-24.60, DOT No 749916K), Smith Street (CPUC No 001L-25.20, DOT No 749927), Dyer Street (CPUC No 001L-25.70, DOT No 749928E), and Alvarado Blvd (CPUC No 001L-26.10, DOT No 749929L). The Commission supports efforts to reduce the number of at-grade crossings through grade separation. The City also proposes to establish a public, at-grade crossing of the Coast Subdivision at the currently closed Whipple Road crossing (CPUC No 001L-24.56-X, DOT No 922029M) to provide access to the Lincoln-Alvarado Business Park. RCEB does not support establishment of new grade crossings unless all other alternatives have been substantially demonstrated as impracticable. As part of considering and approving construction of new at-grade crossings, staff requires applicants to conduct a thorough study of a grade separation, demonstrating the public needs, exploring all practicable roadway designs including over and underpass crossings, as well as the usage of alternate routes.

The Special Areas Element proposes two new pedestrian station crossings. The first proposed pedestrian crossing would cross the Oakland Subdivision tracks at the east entrance of the BART station. The second proposed pedestrian crossing would cross the Niles Subdivision tracks to link the Core Station District with Station East. The Commission reiterates its stance against new at-grade crossings and asks that the City explore other possible alternatives to the at-grade crossings.

Construction or modification of public crossings requires authorization from the Commission. RCEB representatives are available to discuss any potential safety impacts or concerns at crossings.

**NOTICE OF PREPARATION  
of a Draft Environmental Impact Report for the  
2040 Union City General Plan Update**

**DATE:** October 22, 2018

**TO:** State Clearinghouse  
Responsible Agencies  
Trustee Agencies  
Federal Agencies  
Interested Parties

**PROJECT TITLE:** 2040 Union City General Plan Update

**NOP COMMENT PERIOD:** October 22 – November 21, 2018

**LOCATION:** Union City Planning Area, which includes all land within city limits as shown in Figure LU-1 (attached)

**LEAD AGENCY CONTACT:** Carmela Campbell, AICP,  
Planning Manager, City of Union City  
34009 Alvarado-Niles Road  
Union City, Ca 94587  
[carmelac@unioncity.org](mailto:carmelac@unioncity.org)  
(510) 675-5316

Union City is updating its General Plan. As Lead Agency under the California Environmental Quality Act (CEQA), the City has determined that the update may have a significant effect on the environment and that a programmatic Environmental Impact Report (Program EIR) will be prepared to evaluate these potential effects.

This Notice of Preparation (NOP) solicits guidance from regulatory agencies about the scope and content of environmental information to be included in the EIR related to the agencies' statutory responsibilities. The agencies will use the City's EIR when considering their permits or other approvals related to the 2040 Union City General Plan Update. The NOP also provides an opportunity for interested parties to tell the City what environmental issues they think should be addressed in the EIR.

## **Project Description**

The City adopted its current General Plan in 2002 to, among other things, provide a roadmap for future land use development in the community, and the City has changed accordingly over the last 16 years. Building on the current General Plan, the 2040 General Plan Update responds to the current needs, values, and preferences of the community. It identifies and prioritizes opportunities to maintain a strong and diverse economy; provide a high quality of life that promotes health and equity; minimize natural hazard risk to people and property; and promotes modern, sustainable land use decisions that accomplish the City's goals. The 2040 General Plan Update emphasizes infill and reuse development within the City limits, encourages higher-density and mixed use projects where appropriate, and supports attractive, walkable design that compliments the existing natural and built environment. New development would occur primarily where existing roads, water, and sewer are in place and in a manner that minimizes the impact of development on existing infrastructure and services. Focus areas for growth in Union City include the Greater Station District, Union City Boulevard Corridor, and Horner-Veasy Area. The 2040 General Plan Update provides the policy framework to guide future development toward land uses that support walking, biking, and transit ridership, including a Vision Zero policy. The 2040 General Plan Update places a greater emphasis on active transportation infrastructure such as protected bike lanes and enhanced pedestrian crossings, improved transit facilities and services, and ADA accessibility. The proposed goals, policies and implementation programs are contained in the 2040 General Plan Preliminary Public Review Draft, which is broken down by element and can be found on the General Plan 2040 webpage at: <http://www.uc2040.com/>. The Draft 2040 General Plan Update also includes a proposed Land Use Diagram, attached as Figure LU-1 to this NOP.

## **Probable Environmental Effects and Scope of the EIR**

The EIR for the 2040 General Plan Update will describe existing environmental resource areas and conditions in the General Plan area. The EIR will evaluate the potentially significant environmental impacts of implementing the General Plan Update and will evaluate whether there are feasible mitigation measures that may lessen or avoid such impacts. The EIR is intended to be a program-level document that will analyze the broad environmental effects of the General Plan Update program, considering broad policy alternatives and program-wide mitigation measures. No specific development projects are being considered. Rather, the analysis will focus on the reasonably foreseeable direct and indirect physical environmental effects that could result from implementation of the 2040 General Plan.

In accordance with State CEQA Guidelines Section 15063(a), the City did not prepare an Initial Study, but advises that the EIR will evaluate potentially significant environmental effects related to the following environmental resources:

- Aesthetics (Visual Resources). Physical changes that could occur as a result of the proposed 2040 General Plan Update may alter the aesthetic character of portions of the City. The aesthetic analysis will consider such issues as alteration of public views, changes in visual character, and increased light and glare.
- Agricultural and Forest Resources. Future development associated with the 2040 General Plan Update may result in the conversion of agricultural resources including Prime Farmland, Unique Farmland, Farmland of Statewide Importance, or lands currently under Williamson Contract. The analysis will determine whether any existing agricultural lands or agricultural uses in the City would be impacted as a result of implementation of the 2040 General Plan Update.
- Air Quality. Future development under the 2040 General Plan Update could result in an increase of air quality emissions in the City as a result of either temporary construction activity or long-term/operational emissions.
- Biological Resources. The City contains several sensitive habitats and special-status species; future development under the 2040 General Plan Update could result in loss of sensitive habitats and direct and/or indirect impacts to special-status species.
- Cultural Resources. The City contains historic, archaeological, and paleontological resources. Future development associated with the 2040 General Plan Update could impact these resources.
- Energy. Future development associated with the 2040 General Plan Update would consume energy; the EIR will examine whether energy use would be wasteful, inefficient, or unnecessary, or would conflict with an applicable plan for renewable energy or energy efficiency.
- Geology and Soils. Geologic hazards present within the City could be exacerbated by potential future development facilitated by the proposed 2040 General Plan Update. Potential hazards include fault rupture, groundshaking, landslides, liquefaction/slope stability, erosion, and subsidence.
- Greenhouse Gas Emissions/Climate Change. Future development associated with the 2040 General Plan Update could increase greenhouse gas emissions as a result of construction activity and/or long-term operational activities related to energy use, vehicle trips, water use, and solid waste.
- Hazards/Hazardous Materials. Development associated with the 2040 General Plan Update may result in the potential transport, storage, and use of hazardous materials, could occur on hazardous sites, and could exacerbate potential flooding hazards.

- Hydrology/Water Quality. The City contains several creeks and waterways, and the western border is adjacent to the Eden Landing Ecological Reserve; future development under the 2040 General Plan Update could create erosion and additional runoff that might affect the water quality or capacity of the creeks and the San Francisco Bay. The EIR will also evaluate groundwater recharge impacts.
- Land Use and Planning. Existing City policy documents and regional planning policies apply to the City and future development; the EIR will examine whether the 2040 General Plan Update may be inconsistent with these plans and policies.
- Mineral Resources. The City contains minimal mineral resource areas; the EIR will evaluate whether these areas may be altered as a result of future development under the 2040 General Plan Update.
- Noise. Long-term noise increases under the 2040 General Plan Update would be primarily due to increased traffic on the area roadway system and may exceed applicable noise standards. In addition, temporary noise or vibration may result in impacts related to construction associated with future development under the 2040 General Plan Update.
- Population and Housing. It is not anticipated that future development under the General Plan update would displace people or housing in the City. However, potential population and housing growth as a result of development under the 2040 General Plan Update will be compared to regional growth forecasts for the area.
- Public Services. Future development under the General Plan update may increase demand on existing public services such as police, fire, and schools.
- Recreation. The City contains several parks and recreational facilities. Future development under the General Plan update may increase the demand on these facilities.
- Transportation/Circulation. The existing transportation network in the City may be impacted by future development under the General Plan Update because of the increase in traffic on the City's transportation infrastructure system; the EIR will evaluate these potential traffic impacts, as well as impacts to active transportation and transit.
- Tribal Cultural Resources. Tribal cultural resources, if present, could be impacted from the future development associated with the 2040 General Plan Update.
- Utilities/Service Systems. Future development under the 2040 General Plan Update would increase the demand on utilities and service systems; the EIR will evaluate the potential impacts of this increased demand.
- Wildfire. Areas of Union City are adjacent to Very High Fire Hazard Severity Zones; the EIR will examine whether the 2040 General Plan Update would impair emergency response plans, exacerbate wildfire risks or fuels, or expose people or structures to risk of landslides from post-fire slopes.

**NOP Comment Period:** In accordance with the time limits identified in State law, please respond to this NOP with your comments on the scope and content of the EIR at the earliest possible date, but **not later than 5:00 p.m. on November 21, 2018**. Please include the name of the contact person for your agency and submit written comments to:

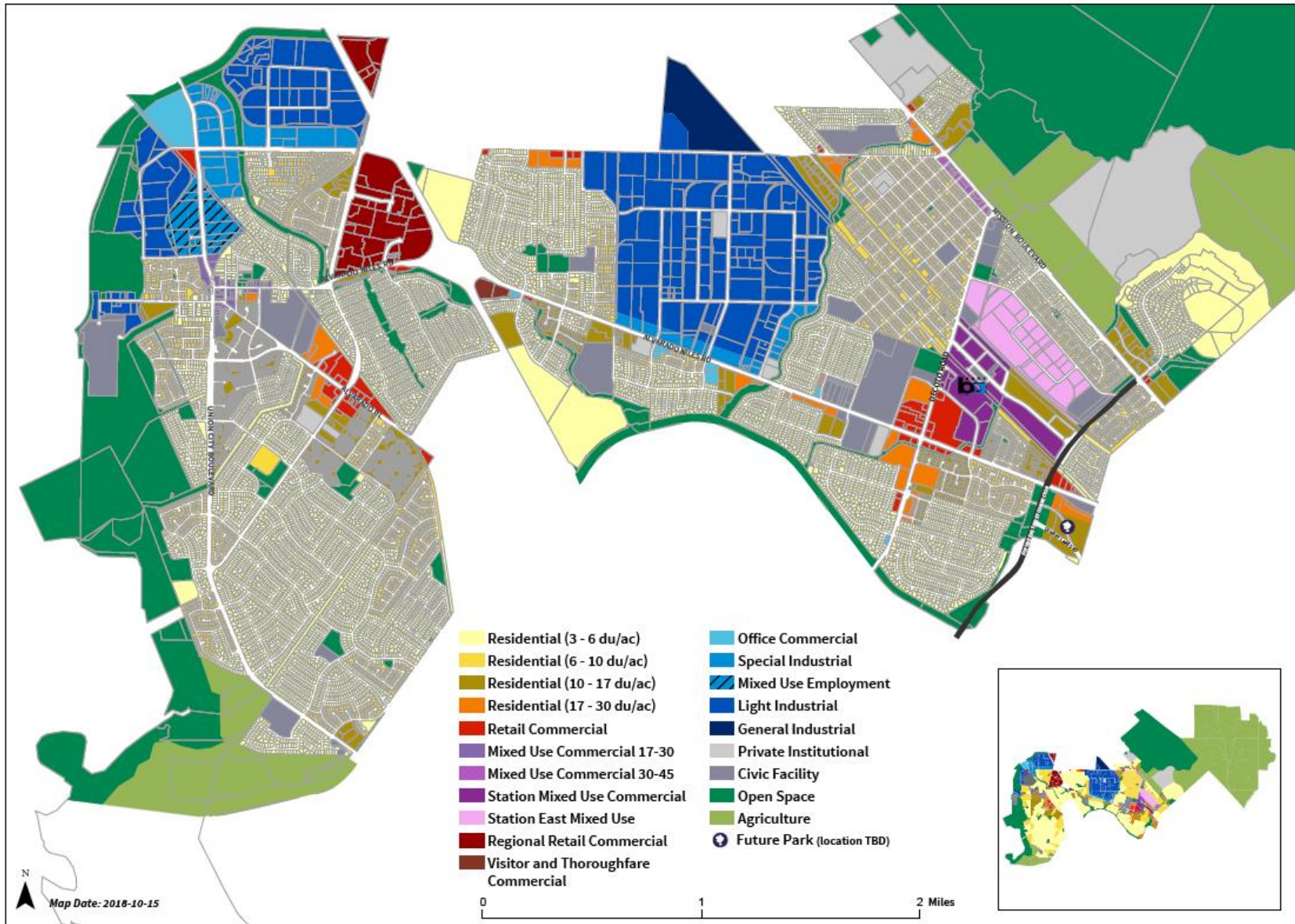
Carmela Campbell, AICP,  
Planning Manager, City of Union City  
34009 Alvarado-Niles Road  
Union City, Ca 94587  
carmelac@unioncity.org

**Scoping Meeting:** To facilitate responses to the NOP, the City will hold a scoping meeting on November 8, 2018 at 7:00 p.m. at the Mark Green Sports Center, 31224 Union City Boulevard, Union City, California, 94587.

#### **Attachments**

1. Figure LU-1: Draft 2040 General Plan Land Use Diagram

**Figure LU-1: General Plan Land Use Diagram**





Carmela Campbell  
SCH 2018102057  
November 20, 2018

Please continue to keep RCEB informed of the project's development. More information can be found at: <http://www.cpuc.ca.gov/crossings>.

If you have any questions, please contact Matt Cervantes at (213) 266-4716, or [mci@cpuc.ca.gov](mailto:mci@cpuc.ca.gov).

Sincerely,

A handwritten signature in black ink, appearing to read "Matt Cervantes". The signature is fluid and cursive, with the first name "Matt" and last name "Cervantes" clearly distinguishable.

Matt Cervantes  
Utilities Engineer  
Rail Crossings Engineering Branch  
Safety and Enforcement Division

CC: State Clearinghouse, [state.clearinghouse@opr.ca.gov](mailto:state.clearinghouse@opr.ca.gov)



**Rincon Consultants, Inc.**

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November 14, 2018  
Project No: 14-00046

Carmela Campbell, AICP  
City of Union City  
34009 Alvarado-Niles Road  
Union City, California, 94587

**Subject: 2040 Union City General Plan Update Summary of EIR Scoping Meeting Comments**

Dear Ms. Campbell:

As you are aware, the City held a public scoping meeting on November 8, 2018, with the purpose of soliciting comments and inputs on the Draft EIR to be prepared for the 2040 Union City General Plan Update (project). The scoping meeting was held at 7:00 PM, at the Mark Green Sports Center in Union City. A total of 14 people signed in attendance at meeting, excluding City planning staff and Rincon staff. A copy of the meeting sign-in sheet is attached to this letter.

Comment sheets were provided at the meeting for submittal of written comments. However, no written comments were submitted at the meeting. Numerous comments and questions were provided verbally during the meeting. These comments were paraphrased in written format on an oversized paper tablet and a dry-erase board at the meeting as the commenter was speaking. The remainder of this letter presents each of these comments. Comments have been separated into two general groups based on whether they pertain to the General Plan Update project or the issues and alternatives to be evaluated in the EIR.

## EIR Comments

- The potential impacts associated with hazardous materials and hazardous material sites should be evaluated in the EIR.
- The EIR should evaluate the potential for the General Plan Update project to consume energy and result in potential energy impacts.
- The EIR should analyze potential noise impacts and potential impacts from greenhouse gas emissions related to the 84 connector freeway.
- The EIR should evaluate the effectiveness of conservation of open space and agricultural land, and consider whether expanding conservation is necessary.



- The EIR should evaluate the potential for the General Plan Update project to conflict with multimodal transportation connectivity, and consider including separated bike paths and bicycle and pedestrian connections to reduce these impacts.
- The potential impacts to open space and open space preservation from buildout of the General Plan Update project should be evaluated in the EIR.
- The EIR should evaluate an alternative that avoids construction of the East-West Connector Project.
- The EIR should evaluate an alternative that emphasizes connected active transportation modes in Union City.
- The EIR should evaluate a “no build” alternative to the 2040 General Plan Update project.
- The EIR should evaluate a reduced development alternative that avoids development of Ramirez Farm and Peterson Farmhouse, and Alameda Creek.

## General Plan Update Comments

- The General Plan Update project should accommodate utilization of the Hillside Area for energy generation.
- The General Plan Update project should designate Ramirez Farm as a priority conservation area.
- The General Plan Update project should provide for connections between major open space areas and class I trails.
- The General Plan Update project should show gaps in trail and bike and pedestrian connectivity.
- The General Plan Update project should address conflicts between Vehicle Miles Travelled (VMT) reduction goals and the East-West Connector Project.
- The General Plan Update project should provide que jump lanes on Decoto Road.

Sincerely,

**Rincon Consultants, Inc.**

Matt Maddox, MESM, AICP  
Senior Program Manager

Attachment: Scoping Meeting Sign-In Sheet

2040 Union City General Plan Update  
 EIR Scoping Meeting  
 November 8, 2018

**SIGN-IN SHEET**

Name	Affiliation/Address	Phone No.	Email
<i>Lythia Alvar</i>			<i>CAA471@gmail.com</i>
<i>Barry Ferrer</i>			
<i>Mandy Gill</i>			<i>ME @ MANDCEP.ORG</i> <sup>mail about BPA</sup>
<i>Lupe St. Denis</i>	<i>30809 Valley St.</i>		
<i>WARREN ST. DENIS</i>	<i>" "</i>		
<i>Maria Ramaj</i>			
<i>KULDEEP JAIN</i>	<i>32535 KAREN CT.</i>		<i>KULDEEPJ @ GMAIL</i>
<i>Flavio Poehlmann</i>			
<i>Sinabyt K. Cheema</i>	<i>4469 Niland ST</i>	<i>510.364-9135</i>	
<i>EVA Kamakua</i>			
<i>Vipin Bajwa</i>	<i>4436 Scotia ST</i>	<i>510-449-1243</i>	<i>vipansbajwa@gmail.com</i>
<i>Jaime Patiño</i>	<i>33349 9th ST</i>	<i>510-219-2086</i>	<i>jpatino2@gmail.com</i>
<i>JANET BENZ</i>			<i>jannetbenz@yahoo.com</i>

*Liz Ames*      *33025 Pelmet Dr.*      *510 429 8900*      *l.ames@unioneityhibegmail.com*



November 14, 2018

Carmela Campbell, AICP  
Planning Manager  
City of Union City  
34009 Alvarado-Niles Road  
Union City, CA, 94587

**SUBJECT:** Response to the Notice of Preparation (NOP) of a Draft Environmental Impact Report for the 2040 Union City General Plan Update

Dear Ms. Campbell,

Thank you for the opportunity to comment on the Notice of Preparation (NOP) of the Draft Environmental Impact Report (DEIR) for the 2040 Union City General Plan Update. The planning area covers the entirety of the City of Union City. The 2040 General Plan Update emphasizes infill and reuse development within the City limits, encourages higher-density and mixed use projects where appropriate, and supports walkable design that compliments the existing natural and built environment. Focus areas for growth in Union City include the Greater Station District, Union City Boulevard Corridor, and Horner-Weasy Area. The 2040 General Plan Update provides the policy framework to guide future development toward land uses that support walking, biking, and transit ridership, including a Vision Zero policy. The 2040 General Plan Update places a greater emphasis on active transportation infrastructure such as protected bike lanes and enhanced pedestrian crossings, improved transit facilities and services, and accessibility.

The Alameda County Transportation Commission (Alameda CTC) respectfully submits the following comments:

Basis for Congestion Management Program (CMP) Review

- It appears that the proposed project will generate at least 100 p.m. peak hour trips over existing conditions, and therefore the CMP Land Use Analysis Program requires the City to conduct a transportation impact analysis of the project. For information on the CMP, please visit: [http://www.alamedactc.org/app\\_pages/view/5224](http://www.alamedactc.org/app_pages/view/5224)

Use of Countywide Travel Demand Model

- The Alameda Countywide Travel Demand Model should be used for CMP Land Use Analysis purposes. The CMP requires local jurisdictions to conduct travel model runs themselves or through a consultant. The City of Union City and Alameda CTC signed a Countywide Model Agreement on April 1, 2008. Before the model can be used for this project, a letter must be submitted to the Alameda CTC requesting use of the model and describing the project. A copy of a sample letter agreement is available upon request. The most current version of the Alameda

CTC Countywide Travel Demand Model was updated in June 2018 to be consistent with the assumptions of Plan Bay Area 2040.

### Impacts

- The DEIR should address all potential impacts of the project on the Metropolitan Transportation System (MTS) roadway network, including segments on roads outside of Union City which would be affected by the plan.
  - For the purposes of CMP Land Use Analysis, the Highway Capacity Manual 2010 freeway and urban streets methodologies are the preferred methodologies to study vehicle delay impacts.
  - The Alameda CTC has *not* adopted any policy for determining a threshold of significance for Level of Service for the Land Use Analysis Program of the CMP. Professional judgment should be applied to determine the significance of project impacts (Please see Chapter 6 of the 2017 CMP for more information).
- The DEIR should address potential impacts of the project on Metropolitan Transportation System (MTS) transit operators.
  - MTS transit operators potentially affected by the project include: AC Transit, Union City transit, and BART.
  - Transit impacts for consideration include the effects of project vehicle traffic on mixed flow transit operations, transit capacity, transit access/egress, need for future transit service, and consistency with adopted plans. See Appendix J of the 2017 CMP document for more details.
- The DEIR should address potential impacts of the project to cyclists on the Countywide Bicycle Network, including facilities which provide connectivity to and from Union City.
  - Impacts to consider on conditions for cyclists include effects of vehicle traffic on cyclist safety and performance, site development and roadway improvements, and consistency with adopted plans. See Appendix J of the 2017 CMP document for more details.
- The DEIR should address potential impacts of the project to pedestrians in Pedestrian Plan Areas of Countywide Significance.
  - Impacts to consider on conditions for pedestrians include effects of vehicle traffic on pedestrian access and safety, site development and roadway improvements, and consistency with adopted plans. See Appendix J of the 2017 CMP document for more details.

### Mitigation Measures

- Alameda CTC's policy regarding mitigation measures is that to be considered adequate they must be:
  - Adequate to sustain CMP roadway and transit service standards;
  - Fully funded; and
  - Consistent with project funding priorities established in the Capital Improvement Program of the CMP, the Countywide Transportation Plan (CTP), and the Regional Transportation Plan (RTP) or the Federal Transportation Improvement Program, if the agency relies on state or federal funds programmed by Alameda CTC.

- The DEIR should discuss the adequacy of proposed mitigation measure according to the criteria above. In particular, the DEIR should detail when proposed roadway or transit route improvements are expected to be completed, how they will be funded, and the effect on service standards if only the funded portions of these mitigation measures are built prior to Project completion. The DEIR should also address the issue of transit funding as a mitigation measure in the context of the Alameda CTC mitigation measure criteria discussed above.
- Jurisdictions are encouraged to discuss multimodal tradeoffs associated with mitigation measures that involve changes in roadway geometry, intersection control, or other changes to the transportation network. This analysis should identify impacts to automobiles, transit, bicyclists, and pedestrians. The HCM 2010 MMLOS methodology is encouraged as a tool to evaluate these tradeoffs, but project sponsors may use other methodologies as appropriate for particular contexts or types of mitigations.
- The DEIR should consider the use of TDM measures, in conjunction with roadway and transit improvements, as a means of attaining acceptable levels of service. Whenever possible, mechanisms that encourage ridesharing, flextime, transit, bicycling, telecommuting and other means of reducing peak hour traffic trips should be considered. The Alameda CTC CMP Menu of TDM Measures and TDM Checklist may be useful during the review of the development proposal and analysis of TDM mitigation measures (See Appendices F and G of the 2017 CMP).

Thank you for the opportunity to comment on this NOP. Please contact me at (510) 208-7426 or Chris G. Marks, Associate Transportation Planner at (510) 208-7453, if you have any questions.

Sincerely,



Saravana Suthanthira  
Principal Transportation Planner

cc: Chris G. Marks, Associate Transportation Planner



Nov 21, 2018

To:  
Carmela Campbell, AICP,  
Planning Manager, City of Union City  
34009 Alvarado-Niles Road  
Union City, Ca 94587

Dear Ms. Campbell

In response to the Notice of Preparation for the Environmental Impact Report (EIR) of the Union City General Plan 2040 update, Bike Fremont offers the following comments.

1. The decade-old traffic analysis for the East-West Connector (EWC) needs to be updated as requested by ACTC at their March 22, 2018 meeting. At the very least this needs to be upgraded to current Complete Streets and VMT (Vehicle Miles Traveled) standards. A revised analysis should also include the effects of adding the proposed railroad grade separations to Decoto Road and Whipple Ave from the Mobility Plan, as these may significantly affect the demand model for the EWC. If there are significant differences from the prior analysis, the project EIR needs to be revised together with the General Plan EIR update.
2. Level-of-Service (LOS) goals should be removed from the Mobility Plan and should not be utilized for the EIR. As we explained in our written comments and verbally at the Aug. 14, 2018 City Council meeting, LOS runs counter to the multimodal goals expressed in the Mobility Plan, as well as other General Plan elements for Land Use, Health & Safety and Environmental Sustainability. Instead, the analysis should be done using VMT from the get-go without any LOS goals. Fremont just completed an EIR of their bicycle master plan using VMT analysis, so the expertise clearly is locally available with consulting services to do so now rather than waiting for the mandated 2020 switchover. (Fremont utilized Fehr & Peers, which has provided many traffic impact analyses for Union City already and also consulted on the Station District Mixed Use EIR.)

Sincerely yours,

Andreas V. Kadavanich  
for Bike Fremont



## George Dix

---

**Subject:** RE: comments on NOP and 2040 plan

**From:** Elizabeth ames [<mailto:elizabethaames@gmail.com>]

**Sent:** Wednesday, November 21, 2018 4:37 PM

**To:** Carmela Campbell <[CarmelaC@unioncity.org](mailto:CarmelaC@unioncity.org)>

**Subject:** comments on NOP and 2040 plan

November 21, 2018

Subject: **Comments to the 2040 General Plan Update**

Dear Ms. Campbell,

Please find here my comments on the Union City 2040 General Plan Update and EIR preparation.

It is vital an Environmental Impact Report (EIR) alternative to the East West Connector is studied. With extensive public outcry over this expensive, fiscally risky and environmentally detrimental project, the City must develop another plan alternative.

It is also prudent to study an alternative that best addresses climate change, park and open space needs, a job-housing balance and seamless transit-oriented network.

I recommend the City acknowledge:

- Level of Service (LOS) is not an adequate measure of impacts and Vehicle Miles Traveled must be analyzed as the EIR will be outdated upon potential adoption
- Plan more detail for how the City will accommodate 77-parkland acres – to make up the deficit created by poor over development decisions
- Plan for a cycle track – class IV multi-modal network for electric bicycles, scooters and bicycles in lieu of the East West Connector and other proposed roadway improvements
- Plan of of transit-oriented development with adequate jobs such as more Research and Development campuses in warehouse districts within a ½ mile radius of BART
- Land use plans that retain Ramirez Farm and the nationally significant Historic Peterson farm complex and the Old Alameda Creek / Juan Bautista De Anza trail. This open space area can be preserved through “mitigation banking” given Alameda County highway 84 improvement. If farmland /open space is preserved, it will mitigate the loss of parkland through over development.

Consider public policy implications of significant physical change in areas where change is not desired such as impacts to regional aquifer, the “niles cone”, agricultural lands, open spaces, natural and historical resources such as Peterson farm complex, and impacts to climate change due to the East West Connector proposal and auto-centric land uses.

### **Alternative Land Use Option**

The problem with developing land use plans for the desired change would the

willingness to commit city resources to the process alternatives must receive the serious consideration they deserve.

There are four areas requiring proactive planning as being the highest priority:

1. Consider the “No Build Option” for the East West Connector and plan transit-oriented development within a ½ mile radius of BART including development of shopping center parking lots

2. Consider Multi-Modal Grid city-wide improvements encouraging transit and multi-modal uses such as a bike path from Niles Canyon to the Dumbarton Bridge, identification of the Shinn Connection for ACE and Dumbarton Rail, cycle track -class IV modes of travel to BART and transit (not automotive) destinations for regional connectivity is vital.
3. Conversion of existing warehouse space and BART TOD land uses to research and development campuses necessary to dramatically increase revenue targets
4. Accounting for the increase in dwelling housing units on single family land uses given the city is mostly single family residential

This combination changes leads to a conclusion a new alternative must be developed focusing primarily on the area bounded by warehouses along Alvarado Niles and Whipple Roads, transit oriented development around BART and shopping center parking lots, redevelopment of Union Landing to accommodate more hotels given slow and changing retail growth and development, and citywide transit multi-modal approaches.

A quick land use fix is not going to work unless another alternative is developed. The Eco-Transport coalition which Save Our Hills is a part of and would be happy to meet and discuss a viable alternative that meets community needs.

Best Wishes,  
Elizabeth Ames  
Union City Resident  
Chair, Save Our Hills  
510.371.1311

Decision 17-11-014 November 30, 2017

**BEFORE THE PUBLIC UTILITIES COMMISSION OF THE STATE OF CALIFORNIA**

In the Matter of the Application of the City of Union City for an order to install one new Pedestrian at-grade crossing, across and over the track of the Union Pacific Railroad Oakland Subdivision, Mile Post 27.10, and the closure of one existing at-grade crossing at Mile Post 26.70, in the City of Union City, County of Alameda, State of California.

Application 17-02-010

**DECISION AUTHORIZING THE CITY OF UNION CITY, TO CONSTRUCT AN AT-GRADE PEDESTRIAN RAIL CROSSING ACROSS THE UNION PACIFIC OAKLAND SUBDIVISION, MILE POST 27.10 IN CITY OF UNION CITY, ALAMEDA COUNTY**

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**DECISION AUTHORIZING THE CITY OF UNION CITY, TO CONSTRUCT AN AT-GRADE PEDESTRIAN RAIL CROSSING ACROSS THE UNION PACIFIC OAKLAND SUBDIVISION, MILE POST 27.10 IN CITY OF UNION CITY, ALAMEDA COUNTY**

**Summary**

This decision grants the City of Union City authorization to construct an at-grade rail pedestrian only crossing over Union Pacific Railroad's Oakland Subdivision at mile post 27.10 in the City of Union City, Alameda County. The new crossing will be identified as DOT Number 859611R, and California Public Utilities Commission Crossing Number 004-27.08. The decision also grants the City of Union City authorization to close the "I" Street at-grade highway rail crossing identified as DOT Number 834187C, California Public Utilities Commission Crossing Number 004-26.70.

This proceeding is closed.

**1. Background**

Over the last twenty years the City of Union City (the City) has been working toward creating a Transportation Oriented Development (TOD) and Intermodal Station District. The availability of an approximately 90-acre underutilized and environmentally constrained site within walking distance of the BART Station was seen as an opportunity by the City to create the Transit Oriented Development. The City has spent years cleaning up the site and installing infrastructure to create the Transit Oriented District. Single family homes and town homes were built on the former steel mill site and multi-family housing continues to be built on the remaining 30-acre parcel that has since been subdivided and fitted with public infrastructure to facilitate housing, retail and job centers.

The City's Transit Oriented District and Intermodal Station District is approaching the completion of Phase 2A, which included modifying the circulation and ticketing elements of the Bay Area Rapid Transit (BART) Station so that pedestrians can enter the BART Station from the residential area to the east (railroad north) once the pedestrian at-grade crossing (Phase 2B) is constructed. The construction of the Pedestrian at-grade crossing under Phase 2B will culminate in establishing a direct pedestrian and bicycle connection to and from the BART station by providing a new east-side opening from the TOD area and proposed parking lot to the east of the BART Station. The Union Pacific Railroad (UPRR) tracks are currently inactive with a potential to be reactivated in the future. The projected daily number of pedestrians using the crossing is estimated at 3,040 pedestrians.

## **2. Procedural Issues**

The City of Union City filed this application on February 27, 2017. On March 24, 2017, in Resolution ALJ 176-3394 this proceeding was preliminarily categorized as ratesetting, and it was preliminarily determined that evidentiary hearings would be necessary. On March 29, 2017, this matter was reassigned from Administrative Law Judge Richard Smith to Administrative Law Judge (ALJ) Robert Haga.

A telephonic prehearing conference (PHC) was held on June 15, 2017. At the PHC the scope of the issues to be resolved and a possible procedural schedule were discussed. The City agreed that evidentiary hearings would not be necessary and that a Public Participation Hearing would not be needed. On June 29, 2017, the Safety and Enforcement Division (SED) of the Commission submitted a late-filed response and a motion to accept the late-filed response. In its response, SED stated that it does not oppose the application but wishes to

apprise the Commission of relevant information on this project, including information on SED's past site visit and the type and location of warning devices that it recommends be implemented at the crossing.

On July 24, 2017, ALJ Haga issued a ruling directing the applicant to provide copies of the Final Environmental Impact Reports (EIR) that include evaluation of the potentially significant impacts and any mitigation measures required to mitigate any such impacts for this project. On August 3, 2017, the City responded to the ruling and providing a copy of the Final EIR and a summary of the environmental impacts and mitigation measures identified for the project in the environmental reports.

This proceeding was submitted on October 13, 2017.

### **3. Jurisdiction**

Pursuant to Section 1201 of the California Public Utilities Code (Pub. Util. Code),<sup>1</sup> the Commission must grant permission before an at-grade crossing can be constructed across the track of a railroad corporation. Pub. Util. Code § 1202 gives the Commission exclusive authority to determine the point of crossing, the terms of installation, and the terms of operation. As part of this authority, the Commission is tasked with evaluating proposed warning devices, technology and other safety measures, with the consent of the local jurisdiction.<sup>2</sup>

The basis of the Commission's jurisdiction is not limited to Sections 1201 and 1202, the Commission is responsible for a number of different rail safety laws that, when read together give the Commission jurisdiction over railroad

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<sup>1</sup> All subsequent Section references are to the California Pub. Util. Code unless otherwise indicated.

<sup>2</sup> Pub. Util. Code § 1202(d).

crossings in California. For example, Section 229 defines railroad to include any “commercial, interurban, and other railway, other than a street railroad,” and under Section 99152, “Any public transit guideway planned, acquired, or constructed, on or after January 1, 1979, is subject to regulations of the Public Utilities Commission relating to safety appliances and procedures.”

Rule 3.7(c) provides additional details. As summarized in Decision (D.) 14-08-045,

Rule 3.7(c) requires applications to construct a railroad crossing be made by the municipal, county, state or other governmental authority which proposes construction and, if the proposed crossing is at-grade, the applicant must demonstrate that: 1) There is a public need to be served by the crossing; 2) A grade separation of the crossing is not practicable; and 3) There are warning signs, signals, and other devices at the crossing. All three elements of Rule 3.7(c) must be satisfied in order for the application to be approved.

The Commission’s analysis always begins with the presumption that grade separation is appropriate. The City bears the burden of overcoming this presumption with convincing evidence that this particular crossing will be safely operated as an at-grade crossing.

#### **4. Discussion**

The City and SED have provided evidence of how the public interest will be served by having the pedestrian crossing at-grade. These reasons are well-summarized by the City in its Application and supplemental submissions:

- a. The construction of an at-grade crossing will establish a direct pedestrian and bicycle connection to and from the BART station for new housing and job centers in the City’s Station District as well as the new 800-stall parking lot.
- b. The current configuration requires commuters to travel ½ mile from the 800-stall parking lot to the west BART



- entrance, crossing the railroad tracks at Mile Post 26.90 on a Decoto Road sidewalk without pedestrian signals.
- c. The City's Station District Plan was approved in 2001 to create new multiple points of pedestrian, bicycle, and bus access to the Union City BART Station and included the new east entrance.
  - d. The City expended \$71 million to remodel the Union City BART station to create the new east entrance.
  - e. The City has invested \$161 million on property acquisitions, installation of infrastructure for high density housing and offices in the Station District, reconfiguration of the BART Station, and construction of 250 units of affordable housing.
  - f. It would cost more than \$200 million to create a pedestrian grade-separated crossing to the new east entrance.
  - g. The City has overseen more than \$450 million in private sector investment for construction of 1,300 housing units in the Station District less than  $\frac{1}{4}$  mile from the east entrance. An additional 443 residential units and 1.2 million square feet of office space are seeking entitlements to construct in the Station District within  $\frac{1}{4}$  mile of the new east entrance.
  - h. The Alameda County Transportation Commission is specifically funding the construction of the pedestrian at-grade crossing to provide easier access to the Union City BART station.

SED does not dispute the factual truth of the City's reasoning or that the City's reasons do not demonstrate that the crossing is in the public interest.

Safety is of paramount importance to the Commission. Ensuring safe rail crossings is in the public interest. But safety and public interest are not synonymous. Evaluating a particular facility for safety is different from evaluating what is in the public interest as a whole. The safest course would be to allow for no rail crossing, however, that would not be practicable nor in the public interest. When a crossing must occur, usually the safest type of crossing is

a separated grade crossing. However, the public interest requires a more nuanced review that considers the public interest as a whole. This includes safety impacts of a separated grade crossing and the use of the existing crossings. As discussed below, both of these options are impracticable and present safety concerns.

Those safety concerns include: the nearest crossing is at-grade and not designed for pedestrians and requires pedestrians to walk an additional ½ mile; individuals may choose to cut the fence and walk across the tracks at-grade to avoid walking to the nearest crossing; and the significant amount of time the existing conditions will exist before a grade-separated crossing could be funded and built makes it impracticable that such a grade-separated crossing would be built.

In an effort to improve safety at the new at-grade pedestrian crossing the City has agreed with SED that it will install the following:

- a. Two CPUC Standard Number 8 (flashing light signal assembly) warning devices;
- b. Two CPUC Standard Number 9 (flashing light signal assembly with automatic pedestrian gate) pedestrian warning devices;
- c. Two pedestrian exit swing gates;
- d. Advance Americans with Disability Act (ADA) tactile stripes at each approach;
- e. Fencing to channelize pedestrians to the crossing; and
- f. Precast concrete panel crossing surface.

Further, the applicant agrees to close an existing at-grade crossing, the existing "I" Street at-grade highway rail crossing, DOT Number 834187C, CPUC Number 004-26.70. The City identified this crossing for closure as the nearby BART support columns impair the sight distance from both "I" and 12<sup>th</sup> Streets.

As part of removing the existing "I" Street crossing, a new security fence will be erected on both sides of the track to prevent trespassing. The existing intersection where 12<sup>th</sup> Street, which parallels the Oakland Subdivision track, meets "I" Street would be rebuilt into a 90 degree turn leading away from the track using new curb, gutter, and barriers. The existing auto and pedestrian traffic would be diverted to either the existing "H" Street or Decoto Road at-grade crossings.

Finally, the City has committed to make a number of improvements to at-grade crossings in the vicinity of the proposed new crossing. Specifically, the City shall:

1. Install mitigation measures at the existing Niles Subdivision Track Decoto Road at-grade highway-rail crossing identified as DOT Number 749781G, CPUC Number 001D-26.60;
2. Install sidewalk improvements at the existing Oakland Subdivision Track Decoto Road at-grade highway-rail crossing identified as DOT Number 834186V, CPUC Number 004-26.90;
3. Install mitigation measures at the existing Niles Subdivision Track Whipple Road at-grade highway-rail crossing identified as DOT Number 749776K, CPUC Number 001D-25.60; and
4. Install mitigation measures at the existing Coast Subdivision Track Smith Street identified as DOT Number 749927X, CPUC Number 001-L-25.50.

All of the above mitigation measures and sidewalk improvements will be filed separately under General Order (GO) 88-B. The City's commitment to these improvements is a factor in the consideration of its current request, but we take no action today on the mitigation measures and sidewalk improvements the City has committed to install.

#### **4.1. Current Seven-Factor Test for Impracticability**

Determining whether a separated grade crossing is or is not practicable is a fact-specific inquiry. The Commission has evaluated practicability of separated grade crossings on numerous occasions. In *City of San Mateo v. SoPac Transp. Co.*, D.82-04-033 (*City of San Mateo*), the Commission distinguished between impracticable and impractical, focusing primarily on two facts: the physical possibility of constructing the separated grade crossing at the site and the cost of construction. The Commission found in *City of San Mateo* that the high cost of construction might make the separated grade crossing impractical, but the high cost, by itself, did not make the separated grade crossing impracticable.<sup>3</sup> The Commission defined practicable as “being possible physically of performance, a capability of being used, a feasibility of construction.”<sup>4</sup>

In the years since *City of San Mateo* was decided, the Commission has laid out more specific factors for the analysis. Currently, the Commission uses a seven-factor test to determine practicability,<sup>5</sup> and applies the same test at all at-grade crossing cases no matter whether a rail line is heavy rail or light rail.<sup>6</sup>

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<sup>3</sup> *City of San Mateo*, D.82-04-033, at n.8.

<sup>4</sup> *Id.*

<sup>5</sup> *See*, *City of San Diego*, D.03-12-018, *City of Los Angeles*, D.09-02-031, *City of Los Angeles*, D.14-08-045.

<sup>6</sup> *See*, *In the Matter of the Application of the Los Angeles to Pasadena Metro Blue Line Construction Authority for an Order Authorizing the Construction of Two Light Rail Transit Tracks At-Grade Crossing West Avenue 45 in the City and County of Los Angeles, California, and Related Matters*, D.02-05-047. *See also*, *City of Bakersfield*, D.04-08-013, *City of Los Angeles*, D.14-08-045, *City of San Diego*, D.03-12-018, *City of Santa Rosa*, D.16-09-002.

The seven factors, or criteria, for evaluating impracticability of a separated-grade crossing are as follows:

1. A demonstration of public need for the crossing;
2. A convincing showing that all potential safety hazards have been eliminated;
3. The concurrence of local community and emergency authorities;
4. The opinions of the general public, and especially those who may be affected by an at-grade crossing;
5. A recommendation by Staff that it concurs in the safety of the proposed crossing, including any conditions;
6. Although less persuasive than safety considerations, the comparative costs of an at-grade crossing with a grade separation; and
7. Commission precedent in factually similar crossings.

We set forth the analysis required by Rule 3.7(c) below, including application of the seven criteria. No party disputes whether the City has met the standard for impracticability using the seven-factor test.

#### **4.1.1. Demonstration of Public Need**

Rule 3.7(c)(1) requires the City of Union City demonstrate that there is a public need to be served by the proposed crossing. As explained above, the City and SED have provided evidence of how the public interest will be served by having the pedestrian crossing at-grade. That evidence also demonstrates that there is a public need that will be served by the crossing.

#### **4.1.2. Convincing Showing that the City has Eliminated All Potential Safety Hazards.**

The City has made a convincing showing that it has eliminated all potential safety hazards. The proposed crossing has been designed to comply with numerous legal requirements. The design is ADA compliant. The design

includes protection and warning devices in compliance with federal and State regulations (including GO 75-D and the California Manual of Uniform Traffic Control Devices).<sup>7</sup> As part of the design process the City consulted with UPRR, Federal Railroad Administration and SED.

The City states that the steps and ramps associated with the crossing on the east side will be constructed outside the railroad right-of-way. However, due to structure constraints at the BART station, these will encroach a few feet into the UPRR right-of-way, though as far from the track as physically possible.<sup>8</sup>

The City also states the approaches to the new crossing will be totally enclosed with security fencing to direct all pedestrian traffic only to the crossing from each side. In addition, lighting to illuminate the pathway will be installed, and the crossing itself will be equipped with two CPUC No. 8 and two CPUC No. 9 warning devices (gates and lights), escape gates on either side of the crossing, and precast concrete panel crossing surface.<sup>9</sup>

SED stated that the proposed design meets all legal requirements.<sup>10</sup>

#### **4.1.3. Concurrence of Local Community Emergency Authorities, and the General Public.**

The local community, emergency authorities, and the general public all support an at-grade crossing at milepost 27.10 of UPRR Oakland Subdivision railroad track to facilitate entrance to the BART station. The City Council

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<sup>7</sup> Application at 6.

<sup>8</sup> *Id.*

<sup>9</sup> *Id.*

<sup>10</sup> Response of the Safety and Enforcement Division of the Commission, Attachment A at 2.

approved the at-grade crossing proposal in a resolution. UPRR supports the at-grade pedestrian crossing.<sup>11</sup>

No community groups or others came forward to express opposition to the at-grade crossing, or the closing of the at-grade crossing at "I" Street. There is no support in the record for a separated-grade crossing.

#### **4.1.4. Recommendation of Staff that it Concurs with the Safety of the Proposed Crossing.**

As explained above SED submitted a late filed response and a motion to accept the late filed response in June. In its response SED did not oppose the application but sought to apprise the Commission of relevant information on this project, including information on SED's past site visit and the type and location of warning devices that it recommends be implemented at the crossing. In Attachment A to its response, SED states "the application meets the requirements of CPUC staff and Rules of Practice and Procedure, Rule 3.7."<sup>12</sup>

#### **4.1.5. Comparative Cost**

Either type of crossing will cost millions of dollars. Since the adoption of the Station District Plan, the City has invested \$161 million on property acquisitions, installation of infrastructure, construction of 250 units of affordable housing, and reconfiguration of the BART Station. The Union City BART Station was designed and remodeled to create a new east entrance at a cost of \$71 million paid for by the City and leveraged county, regional, state, and federal grants.

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<sup>11</sup> Application at Exhibit F.

<sup>12</sup> Response of the Safety and Enforcement Division of the Commission, Attachment A at 2.

While the City of Union City's ultimate plan for the Station District is to elevate the Oakland Subdivision tracks sufficiently to facilitate a full multimodal transportation station by allowing the pathway to be grade-separated, funding for such an endeavor is dependent upon future bond measures. The engineers estimated in 2006 it would cost \$200 million to elevate the Oakland Subdivision tracks to create a pedestrian grade separation, and that did not include the cost of acquiring the Oakland Subdivision. Installation of a grade-separated pedestrian crossing at the BART station now would increase those estimated costs for the long-term plans to elevate the Oakland Subdivision tracks.

#### **4.1.6. Commission Precedent**

The practicability of a separated-grade crossing is a fact-specific analysis that requires a weighing of the factors above. In assessing practicability of a separated-grade crossing, prior cases have considered whether the line is a heavy or light rail, whether the crossing is for pedestrians or vehicles, the number of trains, train speeds, and support of the local community and emergency authorities.

In 2003, the Commission held that a separated-grade crossing was impracticable for a heavy and light rail crossing that was part of a redevelopment project in San Diego. In that case the community was divided, with some supporting an at-grade crossing and others opposing the redevelopment project as a whole.<sup>13</sup> Other factors the Commission considered in that case included increased traffic from separate ongoing development near the crossing, a cost of more than \$30 million more for the grade-separated crossing, and how the

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<sup>13</sup> D.03-12-018.



separated crossing would have divided the downtown area and interfered with many buildings' views of San Diego Bay.

In 2014, the Commission found that a two-track light rail crossing for trains not exceeding 35 miles per hour did not warrant an additional \$250 to \$300 million expenditure on a grade-separated crossing.<sup>14</sup> In that case, several community groups opposed the at-grade crossings. When weighing the factors, the Commission emphasized that safety requirements had been met and that the high cost of the separated-grade crossing was not justifiable.

The Commission has also denied at-grade crossing proposals in part because of lack of support from local emergency authorities.<sup>15</sup> The Commission has also denied an application for an at-grade crossing where the rail line was used by 14 freight and 32 passenger trains per day and there was an existing unauthorized crossing.<sup>16</sup> In that case, the Commission did not reach the seven factor test because the applicant failed to meet the threshold requirement of demonstrating a public need for the crossing. A key factor in the analysis was the existence of a legal crossing just 926 feet away.

At-grade crossings have been authorized most often in situations where, like here, the applicant agrees to close an existing at-grade crossing.<sup>17</sup> At-grade crossings have also been approved in situation where it is expected there will be

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<sup>14</sup> D.14-08-045.

<sup>15</sup> See D.09-02-031, D.06-06-032.

<sup>16</sup> D.13-02-003.

<sup>17</sup> See, e.g., D.15-05-043 (authorizing at-grade crossing in the County of Santa Cruz), D.13-12-044 (authorizing at-grade pedestrian crossing in Fremont).

fewer than 10 trains per week and/or trains will be travelling at slow speeds.<sup>18</sup> The City argues that the limited freight service<sup>19</sup> plus the proposed passenger train service,<sup>20</sup> and the closing of the existing public at-grade crossing at “I” Street makes its application closely resemble those that the Commission has approved in the past. Further the significant additional cost of a grade-separated crossing that would require elevating the Oakland Subdivision track, the support of local authorities and the SED and the convincing showing that it has eliminated all potential safety hazards support a finding of impracticability in this case.

Commission precedent demonstrates that a finding of impracticability can be made even when it is physically possible to build a separated-grade crossing. Important considerations in other cases authorizing at-grade crossings include: the closure of an existing at-grade crossing, support of local authorities, safe design and train speeds, physical separation of the community, and local development plans. Most of these considerations are found in the instant case.

The facts in the case at hand while similar to D.14-08-045 and D.03-12-018, where the Commission approved at-grade crossings, are most comparable to D.13-12-044 which authorized an at-grade crossing in Fremont where there was strong community support for a crossing and applicant would close an existing crossing.

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<sup>18</sup> See D.04-08-013 (authorizing at-grade crossing where low volume of trains (2-3 per day) would be travelling at slow speeds (10 mph)).

<sup>19</sup> Application, Supplemental Attachment B2, Draft EIR Volume 1 at 3.1-6.

<sup>20</sup> Application, Supplemental Attachment B2, Draft EIR Volume 1 at 3.7-5.

#### **4.1.7. Seven-Factor Standard Supports At-Grade Crossing**

The City of Union City applied the seven-factor test to the proposed railroad crossing for the east entrance to the BART station and found that a separated-grade crossing was impracticable. SED agreed that the application meets its requirements and Rule 3.7. This decision reaches the same conclusion. All seven factors are considered in our determination of impracticability. In particular, the long term planning, development, and commitment of financial resources shows the strong local support for an at-grade crossing at this time. The evidentiary record in this case reflects that at this time implementing a separated-grade crossing is impracticable.

#### **4.2. Environmental Review and California Environmental Quality Act (CEQA)**

The City is the lead agency for this project under CEQA, as amended. In March 2002, the City issued a Final EIR for the Community Redevelopment Project that included the Transit Oriented District. The Final EIR found that potentially significant impacts under the Commission's purview could result from a pedestrian grade-separated crossing under the BART and UPRR tracks, but that these impacts would be reduced to less-than significant levels with implementation of the identified mitigation measures. In June 2005, the City issued a Final EIR for the City Intermodal Station Project. On June 30, 2005, the City filed a Notice of Determination indicating the project will have a significant impact on the environment, and adopted a Statement of Overriding Considerations for the impacts that could not be fully mitigated.

Regarding impacts from the rail-crossing aspect of the project, mitigations measures require that the City (1) develop and implement construction noise abatement and mitigation plan; (2) ensure construction contractors have

sound-control devices with all relevant provisions of applicable local noise policies and ordinances; (3) ensure all construction equipment has sound-control devices no less effective than those provided on the original equipment and that no equipment has un-muffled exhaust; and (4) ensure the contractor implements appropriate additional noise mitigation measures including, but not limited to, changing the location of stationary construction equipment, shutting off idling equipment, rescheduling construction activity, notifying adjacent residents in advance of construction work, rerouting heavy truck traffic, or installing acoustic barriers around stationary construction noise sources or construction sites. Further mitigation measures related to dust control include limiting traffic speeds on unpaved roads to 15 miles per hour and installing sandbags or other erosion control measures to prevent silt runoff to public roadways.

#### **5. Categorization and Need for Hearing**

In Resolution ALJ 176-3394 dated March 24, 2017, the Commission preliminarily determined that this proceeding should be categorized as ratesetting and that hearings were required. The Scoping Memo issued on October 13, 2017, confirmed the ratesetting categorization, but concluded that there were no issues of disputed facts requiring evidentiary hearings. Accordingly, we formally change the preliminary determination to find that no hearings are required.

#### **6. Comments on Proposed Decision**

The proposed decision of the ALJ in this matter was mailed to the parties in accordance with Section 311 of the Public Utilities Code and comments were allowed under Rule 14.3 of the Commission's Rules of Practice and Procedure. No comments were filed.

## **7. Assignment of Proceeding**

Clifford Rechtschaffen is the assigned Commissioner and Robert Haga is the assigned ALJ in this proceeding.

### **Findings of Fact**

1. On February 27, 2017, the City filed the instant application (Application 17-02-010) for an order authorizing the construction, maintenance, and operation of a new at-grade crossing to provide pedestrian connection to the City's Transit Oriented District and BART station.
2. Notice of the application appeared on the Commission's Daily Calendar on March 6, 2017.
3. On June 21, 2017, the City supplemented its application with additional information regarding its environmental review and report.
4. On August 3, 2017, the City further supplemented its application with additional information regarding the Final EIR and a summary of the environmental impacts and mitigation measures identified for the project in the environmental reports.
5. On June 29, 2017, the SED submitted a late-filed response and a motion to accept the late-filed response.
6. The proposed new at-grade crossing would be at mile post 27.10, located approximately 1,000 ft. south (railroad east) of the Decoto Road /Union Pacific Railroad Oakland Subdivision railroad crossing, City of Union City, California, mile post 26.90, and will be identified as CPUC Crossing Number 004-27.08 and DOT Number 859611R.
7. The City has committed to install the following at the new at-grade crossing at mile post 27.10:
  - a. Two CPUC Standard Number 8 (flashing light signal assembly) warning devices;

- b. Two CPUC Standard Number 9 (flashing light signal assembly with automatic pedestrian gate) pedestrian warning devices;
  - c. Two pedestrian exit swing gates;
  - d. Advance Americans with Disability Act (ADA) tactile stripes at each approach;
  - e. Fencing to channelize pedestrians to the crossing; and
  - f. Precast concrete panel crossing surface.
8. The existing at-grade crossing at "I" Street at mile post 26.70 (CPUC Crossing Number 004-26.70, DOT Number 834187C) will be closed upon completion of the new at-grade crossing.
9. No protests were filed to the City's application.
10. The City is the lead agency for this project under CEQA, as amended.
11. In March 2002, the City issued a Final EIR for the Community Redevelopment Project that included the Transit Oriented District.
12. In June 2005, the City issued a Final EIR for the City's TOD and Intermodal Station Project.
13. On June 30, 2005, the City of Union City filed a Notice of Determination indicating the project will have a significant impact on the environment, and adopted a Statement of Overriding Considerations for the impacts that could not be fully mitigated.
14. The Final EIR required mitigation measures to address impacts from the rail-crossing aspect of the project.
15. The crossing is necessary to provide a primary access route for the 800 parking stalls east of the BART station as well as the 1300 new housing units less than ¼ mile from the new east entrance to BART.

16. The crossing configuration provides a safer alternative over the existing at-grade crossing at I street that will be closed and is more practicable than constructing a grade-separated crossing, given the existing configuration of the Oakland Subdivision and the BART station, environmental impact, and cost exceeding the entire public investment in the Union City Station District.

17. The Commission is a responsible agency for this project and has reviewed and considered the lead agency's FEIR, and Notice of Determination.

### **Conclusions of Law**

1. The seven-factor test applies to the crossing proposed for the City's TOD and Intermodal Station District.

2. A rail crossing to allow direct connection to the BART Station with the City's TOD in the public interest and there is a public need for the crossing.

3. As a matter of policy, the Commission disfavors new at-grade crossings.

4. The unique facts of this crossing overcome the presumption against an at-grade crossing.

5. It is impracticable to construct a grade-separated overcrossing at the Transit Oriented District.

6. The City has convincingly shown that it has eliminated potential safety hazards.

7. The City has convincingly shown that it is in the public interest to close the existing at-grade pedestrian and vehicular crossing at "I" Street, mile post 26.70 (0.4 miles north (railroad west) of the proposed pedestrian crossing.

8. The City has committed to file under GO 88-B its plans to install mitigation measures for the Niles Subdivision Track Decoto Road at-grade highway-rail crossing identified as DOT Number 749781G, CPUC Number 001D-26.60.

9. The City has committed to file under GO 88-B its plans to install sidewalk improvements at the existing Oakland Subdivision Track Decoto Road at-grade highway-rail crossing identified as DOT Number 834186V, CPUC Number 004-26.90.

10. The City has committed to file under GO 88-B its plans to install mitigation measures at the existing Niles Subdivision Track Whipple Road at-grade highway-rail crossing identified as DOT Number 749776K, CPUC Number 001D-25.60.

11. The City has committed to file under GO 88-B its plans to install mitigation measures at the existing Coast Subdivision Track Smith Street identified as DOT No. 749927X, CPUC Number 001L-25.20.

12. The Final EIR found that potentially significant impacts under the Commission's purview could result from a pedestrian grade-separated crossing under the BART and UPRR tracks, but that these impacts would be reduced to less than significant levels with implementation of the identified mitigation measures.

13. The Commission has reviewed and considered the 2002, 2005, and 2006 Final EIRs and finds that they are adequate for its independent decision-making purposes.

14. Hearings are not necessary in this proceeding.

15. The proceeding should be closed.

## **ORDER**

### **IT IS ORDERED** that:

1. The application by the City of Union City for an at-grade crossing at mile post 27.10, located approximately 1,000 ft. south (railroad east) of the Decoto



Road/Union Pacific Railroad Oakland Subdivision railroad crossing, City of Union City, California, mile post 26.90, is approved.

2. The new at-grade crossing at mile post 27.10 for the City of Union City's Transit Oriented Development and Intermodal Station District shall have the crossing treatments and configuration described above and specified in the application. The new public at-grade crossing at mile post 27.10 for the City of Union City's Transit Oriented Development and Intermodal Station will be identified as DOT Number 859611R, and CPUC Crossing Number 004-27.08.

3. The City of Union City shall install the following at the new at-grade crossing at mile post 27.10:

- a. Two CPUC Standard Number 8 (flashing light signal assembly) warning devices;
- b. Two CPUC Standard Number 9 (flashing light signal assembly with automatic pedestrian gate) pedestrian warning devices;
- c. Two pedestrian exit swing gates;
- d. Advance Americans with Disability Act tactile stripes at each approach;
- e. Fencing to channelize pedestrians to the crossing; and
- f. Precast concrete panel crossing surface.

4. Upon completion of the new at-grade crossing at mile post 27.10, the City of Union City shall permanently close the existing at-grade pedestrian and vehicular crossing at "I" Street, mile post 26.70, identified as CPUC Crossing Number 004-26.70, and DOT Number 834187C.

5. We adopt and incorporate by reference the significant environmental impacts and proposed mitigation measures set forth in the Final Environmental Impact Report prepared by the City of Union City.

6. We adopt and incorporate by reference the Findings of Fact in the Final Environmental Impact Report prepared by the City of Union City.

7. The City of Union City shall provide the Commission's Rail Crossings Engineering Section of the Rail Crossings and Engineering Branch of the Safety Enforcement Division finalized engineering crossing designs prior to commencement of construction activities. The Rail Crossings Engineering Section of the Rail Crossings and Engineering Branch of the Safety Enforcement Division will evaluate their conformance with the crossing designs approved in this decision.

8. The City of Union City shall comply with all applicable rules, including Commission General Orders and the California Manual on Uniform Traffic Control Devices.

9. The City of Union City shall notify the Commission's Rail Crossings Engineering Section of the Rail Crossings and Engineering Branch of the Safety Enforcement Division at least 30 days prior to the opening of the crossing. Notification should be made by certified U.S. Mail and by e-mail to [rces@cpuc.ca.gov](mailto:rces@cpuc.ca.gov).

10. With 30 days after completion of the work authorized by this decision, the City of Union City shall notify the Commission's Rail Crossings Engineering Section of the Rail Crossings and Engineering Branch of the Safety Enforcement Division, in writing, by submitting a completed Commission Standard Form G (Report of Changes at Highway Grade Crossing and Separations), of the completion of the authorized work. Form G requirements and forms can be obtained at the California Public Utilities Commission web site. The completed report must be submitted in hard copy and via email to [rces@cpuc.ca.gov](mailto:rces@cpuc.ca.gov).

11. This authorization shall expire if not exercised within three years of the issuance of this decision unless time is extended or if the above conditions are not satisfied. Authorization may be revoked or modified if public convenience, necessity or safety so require.

12. A request for extension of the three-year authorization must be submitted to the Commission's Rail Crossings Engineering Section of the Rail Crossings and Engineering Branch of the Safety Enforcement Division at least 30 days before the expiration of that period.

13. The preliminary determination for this proceeding of hearings are necessary is changed to "no hearings necessary."

14. All motions not previously ruled on in this proceeding are denied.

15. Application 17-02-010 is closed

This order is effective today.

Dated November 30, 2017, at San Francisco, California.

MICHAEL PICKER  
President  
CARLA J. PETERMAN  
LIANE M. RANDOLPH  
MARTHA GUZMAN ACEVES  
CLIFFORD RECHTSCHAFFEN  
Commissioners

November 21, 2018

**RE:** Notice of Preparation for the EIR of the Union City General Plan 2040

Dear Ms. Campbell,

We are providing the following comments in response to the Notice of Preparation for the EIR of the Union City General Plan 2040.

The current draft of the 2040 General Plan only considers a scenario in which the East West Connector (EWC) Highway will be built.

First, it should be emphasized that **the General Plan EIR should not proceed without first updating the traffic analysis for the EWC, which is now more than one decade old**. ACTC instructed Union City in March 2018 to redo the traffic analysis before the EWC can be considered for funding. Similarly, Union City should not use decade-old traffic data when evaluating its new vision for the next twenty years.

In addition, **it is essential that an alternative to the East West Connector is studied**. The EWC faces many challenges and may therefore never materialize. In addition, far more effective alternatives exist.

### **Some of the challenges facing the East West Connector**

- High projected cost and lack of viable funding mechanism, other than controversial redirection of transit/bike/ped funds.
- Significant increase in Vehicle Miles Travelled (VMT) and Greenhouse Gas (GHG) emissions resulting from the construction of this roadway
- Detrimental health impacts from vehicle emissions to the many directly adjacent residential neighborhoods
- Detrimental impact on pedestrian and bicycle safety in a transit oriented location
- Discouragement of transit use by running an expressway past a transit oriented development
- Environmental challenges associated with tunneling through contaminated soil from an active superfund site while in close proximity of a crucial regional aquifer.
- Sacrificing a popular community farm which provides unique character to the local community to make space for a highway.
- Impacts on the wildlife habitat along the Old Alameda Creek.
- Impact on historical sites.

### **Alternatives to the East West Connector**

Viable alternatives to the East West Connector have been proposed that avoid all of the above mentioned challenges. These alternatives must receive the serious consideration they deserve.

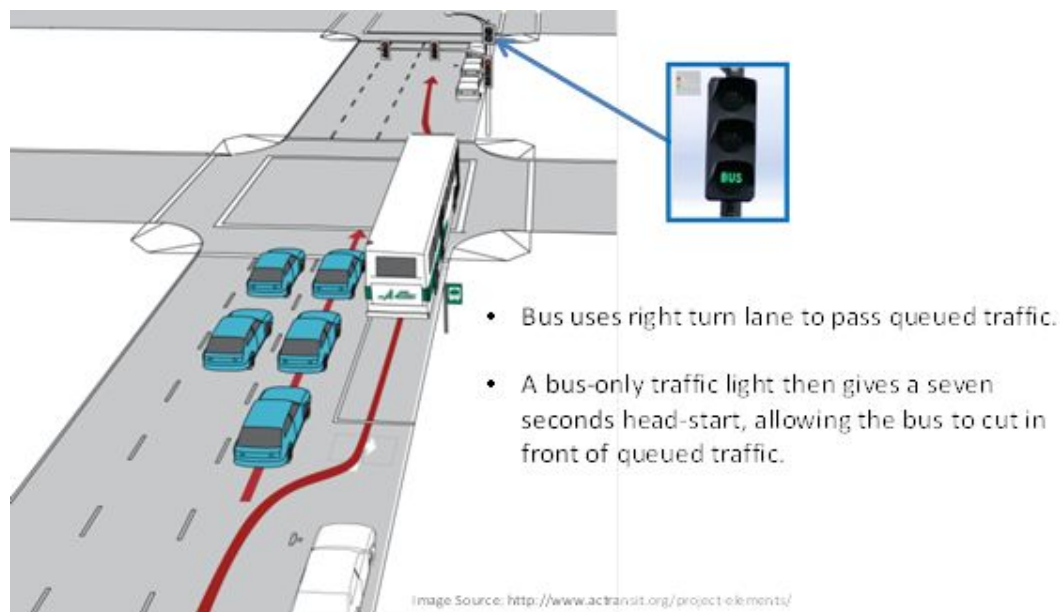
Specifically, a No-Build alternative to the East West Connector should be evaluated that includes, at a minimum, the following three elements:

1. Queue Jump Lanes with Transit Signal Priority on Decoto Rd to speed up buses
2. Grid improvements in the Station District to improve circulation and provide emergency access
3. A well integrated city-wide network of multi-modal connections, providing **non-automotive** options to **safely** reach schools, transit and community facilities

These elements are described below.

### 1. Queue Jump Lanes with Transit Signal Priority for Buses on Decoto Rd:

Rather than building a new general purpose road or adding general purpose lanes to accommodate yet more cars, the person-throughput along Decoto Rd can be increased significantly by implementing simple and effective express bus features, such as queue jump lanes with transit signal priority. Figure 1 illustrates this principle.



**Figure 1:** Bus Queue Jump Lane

The advantages are three-fold:

**More effective Congestion Relief by Removing Cars:** Queue jump lanes coupled with transit signal priority have minimal impact on the surrounding traffic, but allow buses to get through traffic faster. Using a bus that can pass by queued cars, provides commuters with an alternative that is **faster** and therefore **superior** to solo-driving. This provides individuals with a strong incentive for using **mass**-transit. Figure 2 provides a clear visualization of the congestion relief and increase in person-throughput that is contributed by each bus. Furthermore, it needs to be considered that increased mass transit use also removes cars from feeder roads. This provides congestion relief that

extends to surrounding area, unlike road-widening projects, which tend to clog up feeder roads due to the additional cars they attract and the additional driving they promote.



**Figure 2:** Space required to transport 40 people by automobile vs bus.

**Availability of Funding:** Measure BB allocated \$120M to provide express bus features along the Dumbarton Corridor and \$40M of these were specifically allocated to Union City. These funds are not only sufficient to implement the proposed express bus features, but such use is also fully consistent with their voter approved intended use. On the flip side, diverting these funds to a general purpose road like the East West Connector, based on the argument that buses can use it too, is highly controversial.

**Aligned with Regional Proposals:** The 2017 Facebook/SamTrans Dumbarton Corridor Study resulted in plans to double frequency of the Dumbarton Express bus service to every 10 minutes and to supplement the existing routes to Stanford and Palo Alto with two additional routes to Redwood City and Mountain View. Additional improvements are planned along CA-84 to speed up bus service.

## 2. Construct grid improvements in the Station District.

As currently planned, Segment C of the East West Connector would connect Mission Blvd with Alvarado Niles Road. The stated goal is to provide a second access to the Station District, better circulation in the Station District and improved emergency access. However, these goals can be accomplished without the proposed grade separation at the BART tracks. It is sufficient to truncate Segment C at 11th St as shown in Fig. 3, thereby providing the needed grid improvements. Continuing with the grade separation at the BART tracks, on the other hand, would turn Segment C into a thru road. This would undermine the stated goals of attracting predominantly transit users to the Station District and of providing a pedestrian friendly environment. Adding a bike/pedestrian bridge over the BART tracks would be a better idea.



**Figure 3:** Proposed grid improvements in the Station District.

The advantages of this alternative are four-fold:

**Accomplishes the stated goals:** As shown in Fig. 3, the Station District would have easy access to two separate urban arterials, Mission Blvd in the North-East and Decoto Rd in the West. Furthermore, a solid grid would provide easy emergency access from the existing Fire Station at 7th St and efficient circulation throughout the Station District.

**Consistent with Transit Orientation of the Station District:** By reducing thru traffic, this alternative improves pedestrian safety in the station district and shifts the balance towards attracting transit users who want to live close to the intermodal station rather than solo-drivers who seek easy access to the new expressway.

**Resolves the funding challenges of the East West Connector:** Segment C of the East West Connector, as currently planned, would be by far the most expensive segment, with a projected cost of \$190M. This in itself is almost twice the \$89M that are currently available for the entire project. The high price tag is largely due to the enormous challenges associated with tunneling under the BART/UPRR tracks, while directly adjacent to both an active superfund site and a major regional aquifer. Eliminating the grade separation at BART makes the cost more consistent with available funding. A bike/pedestrian bridge could be constructed over the tracks at a fraction of the cost of tunneling for a wide expressway.

## **Additional Factors to Consider**

### 1. Dumbarton Rail

It is now becoming increasingly likely that the Dumbarton Rail Bridge will be rebuilt and provide a rail link between the Union City BART Station and the peninsula. Earlier this year, Facebook created a joint venture with the Plenary Group to perform financial analysis and environmental review of the feasibility of restoring rail service along the Dumbarton corridor. Facebook's philosophy to "move fast" calls for completing the studies, including public outreach, in 18 months starting in August, a pace that would result in decisions by the start of 2020. This is consistent with the proposed schedule of restoring rail service on the bridge by 2025 and extending rail service to Union City by 2030.

### 2. Bike Path From UC Station District to Dumbarton Bridge

The City of Fremont recently released its Bike Master Plan which includes a proposed multi-use path from the Dumbarton Bridge to Quarry Lakes and beyond - extending through Niles Canyon. This path envisions physically separated bike paths along its entire length. Of specific interest to Union City should be that the plan proposes a Class IV bike path along Isherwood Rd. It would then be within the control of Union City to complete this path to the Station District and intermodal station by providing complementary Class I/IV bike facilities along Alvarado-Niles Blvd and beyond.

### 3. Multi-modal Connections City-Wide

Union City's General Plan should focus on providing city-wide, safe and efficient connectivity to regional mass transit. The goal should be to compensate for the past car-centric design choices that have resulted in horrific car volumes choking the city. This is not achieved through even more roads, but by prioritizing non-automotive alternatives in order to diversify towards a truly multi-modal transportation portfolio.

For example, the 2012 Bike Master Plan should be updated to place a stronger emphasis on **protected** bike lanes (Class I and IV) and pedestrian safety. The pedestrian and bicycle master plan, as well as the Union City Transit bus routes should be well integrated to provide a city-wide and seamless network of safe routes to transit, schools and other facilities. Existing gaps for sidewalks and protected bike lanes should be closed. This multi-modal city-wide network should connect seamlessly with regional projects, such as the ones described above.

Sincerely,

Flavio Poehlmann

Elizabeth Ames, Save our Hills

Jannet Benz

Dr. Mandeep Gill, Green Party of Alameda County / Indivisible East Bay



# Appendix B

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Union City General Plan Buildout Methodology

# UNION CITY GENERAL PLAN UPDATE

## Buildout Methodology

*The following steps describe the components and methodology of the buildout calculated for the 2040 Union City General Plan Update.*

### **Step 1: Identified Vacant and Underutilized Sites**

Vacant and underutilized parcels were identified using existing land use data from the Assessor's Office. Parcels classified by the Assessor as "vacant" were verified by the Consultants through aerial imagery and confirmed by City staff. Underutilized parcels were identified as areas where existing uses are inconsistent with the General Plan land use designation and redevelopment is anticipated by 2040. See *Attachment 1 (Vacant/Underutilized Sites and Pending/Approved Projects)* for a map that shows vacant and underutilized sites.

### **Step 2: Accounted for Existing Uses**

Existing uses were taken from the traffic model, which includes estimated housing and employment by Traffic Analysis Zone (TAZ) for 2015. The existing housing and employment numbers were reviewed by City staff and updated to more accurately reflect recent (2018) development activity.

### **Step 3: Applied Development Assumptions**

The assumptions for the different land use designations were applied to all vacant and underutilized parcels to calculate the projected number of employees, square footage of non-residential development, and number of housing units by type under each land use designation. The assumptions account for assumed densities, FAR, distribution of uses, vacancy rates, and square footage per employee. See *Attachment 2 (Buildout Assumptions Table)* for the assumptions used in the buildout model.

### **Step 4: Identified Planned and Approved Projects**

The City compiled a list of planned and approved projects that included expected non-residential square footage and/or housing units for each project. The anticipated development from these projects is included in the buildout analysis. Because the Restoration Site is a City-owned site and the City has already analyzed options for developing the site, it is treated as a planned project for the purpose of this analysis. See *Attachment 1 (Vacant/Underutilized Sites and Pending/Approved Projects)* for a map that shows planned and approved projects and *Attachment 3 (Pending and Approved Projects Buildout Table)* for the buildout table.

### **Step 5: Intensified Development at Shopping Districts and Business Parks**

Business parks and shopping districts currently have large areas covered by parking lots. There are several policies in the General Plan supporting the intensification of business parks and shopping districts. Within the planning horizon (2040), some of these parking areas may be redeveloped with

more intensive uses. The buildout model accounts for this by applying a 10 percent intensification of existing square footage to the following business parks and shopping districts:

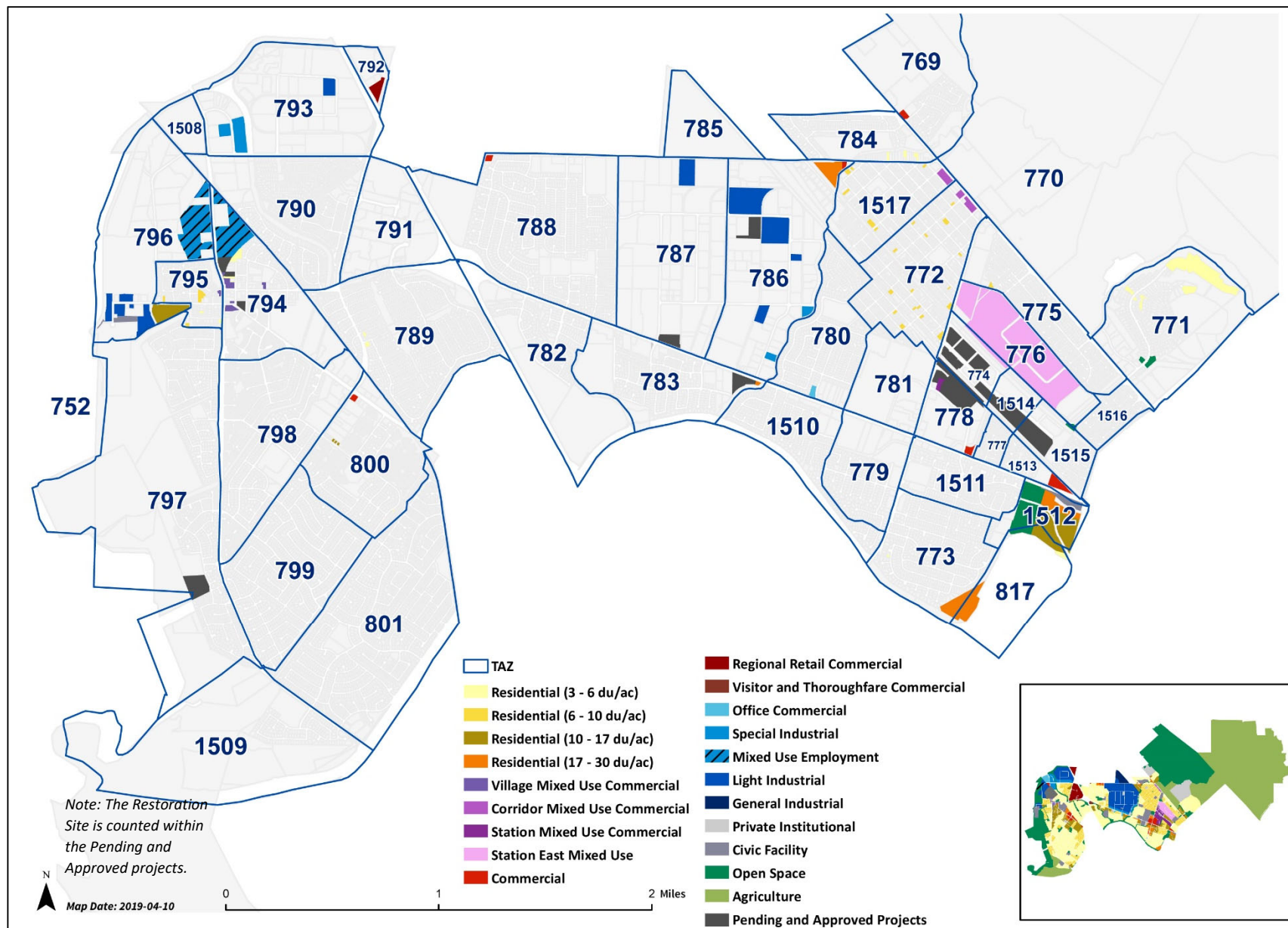
- The Marketplace,
- Four Corners,
- Calaveras Landing,
- Union Landing,
- Alvarado Business Park,
- Central Bay, and
- Lincoln-Alvarado Business Park.

See *Attachment 4 (Business Parks and Shopping Centers with 10 Percent Intensification)* for a map of areas with a 10 percent intensification and *Attachment 5 (Business Parks and Shopping Centers with 10 Percent Intensification Buildout Table)* for the intensification buildout table.

## **Step 6: Compiled Summary Tables**

The summary tables include the anticipated development for all the above components. Collectively, the existing uses (Step 2), development capacity on the vacant and underutilized sites (Step 3), planned and approved projects (Step 4), and intensified development for shopping areas and business parks (Step 5) sum up to be Union City's total buildout capacity in 2040, not accounting for lost housing and employment in underutilized areas. To account for the loss of some existing uses that may be replaced with new uses, predicted loss of housing and employment and are netted out from the total buildout capacity, resulting in the net new buildout capacity for Union City. See *Attachment 6 (Buildout Summary by Land Use)* for a summary table of *new uses* by land use designation. See *Attachment 7 (Buildout Summary by TAZ)* for a summary table that shows the breakdown of existing, loss, new, and 2040 buildout values by TAZ.

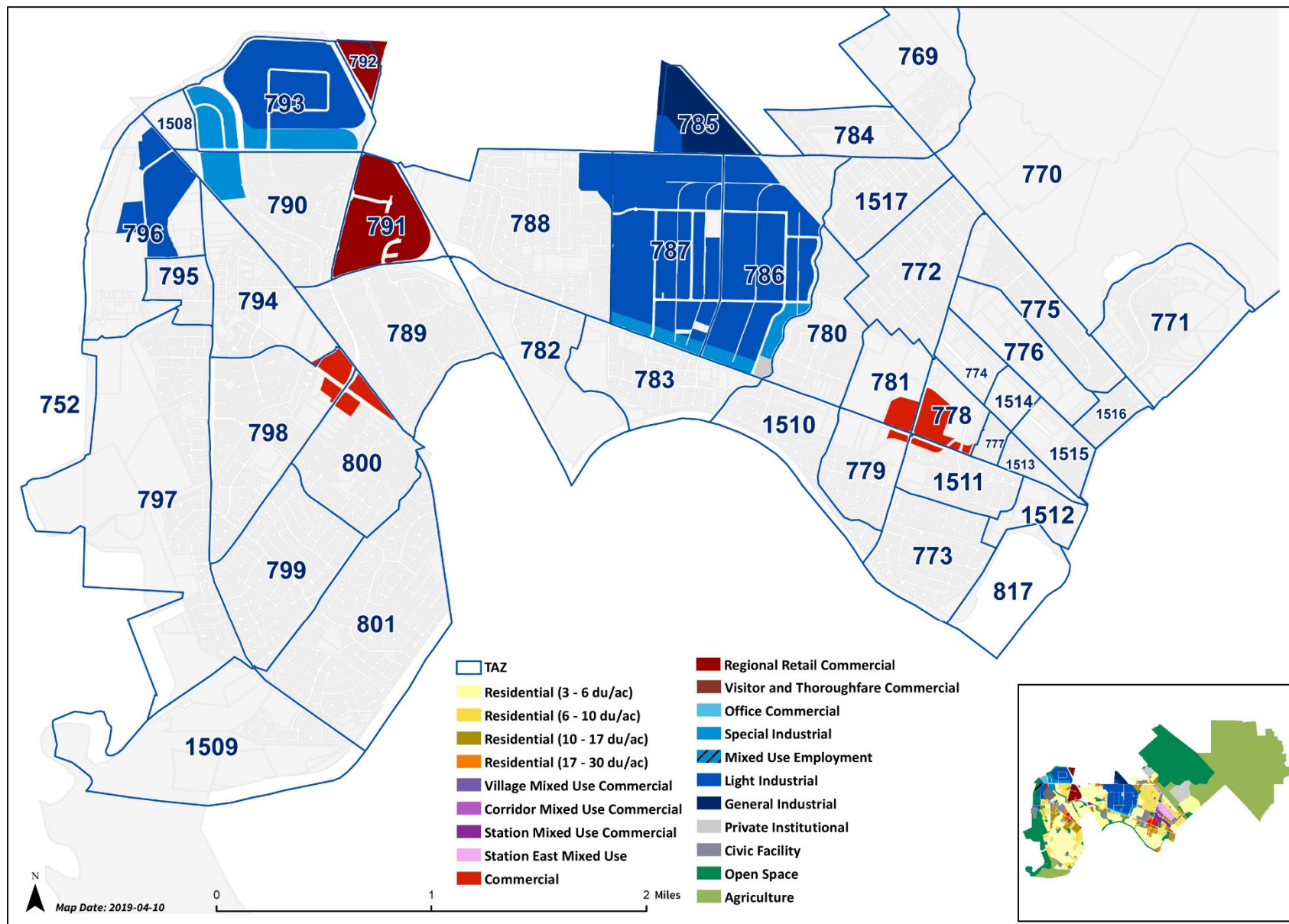
Attachment 1: Vacant/Underutilized Sites and Pending/Approved Projects by TAZ







Attachment 4: Business Parks and Shopping Centers with 10 Percent Intensification by TAZ



Attachment 5: Business Parks and Shopping Centers with 10 Percent Intensification Buildout Table

<b>SHOPPING CENTER/BUSINESS PARK 10 PERCENT INTENSIFICATION</b>																
<i>Shopping Center/Business Park</i>	TAZ	LU Designation	Non-Residential Square Footage							Employment						
			Retail	Services	Office/Other	Manufacturing	Trade	Agriculture	TOTAL	Retail	Services	Office/Other	Manufacturing	Wholesale Trade	Agriculture	TOTAL
<i>Alvarado Business Park</i>																
	790	Special Industrial	4,033	4,033	10,082	12,098	10,082	-	<b>40,326</b>	8	8	34	15	10	-	<b>75</b>
	793	Light Industrial	-	-	45,700	91,400	91,400	-	<b>228,501</b>	-	-	152	114	91	-	<b>358</b>
	793	Special Industrial	8,845	8,845	22,112	26,534	22,112	-	<b>88,448</b>	18	18	74	33	22	-	<b>164</b>
<i>Calaveras Landing</i>																
	792	Regional Retail Commercial	17,568	1,952	-	-	-	-	<b>19,520</b>	35	4	-	-	-	-	<b>39</b>
<i>Central Bay</i>																
	785	General Industrial	-	-	1,315	6,574	5,259	-	<b>13,149</b>	-	-	4	8	5	-	<b>18</b>
	786	Light Industrial	-	-	55,284	110,568	110,568	-	<b>276,421</b>	-	-	184	138	111	-	<b>433</b>
	786	Private Institutional	-	-	3,985	-	-	-	<b>3,985</b>	-	-	13	-	-	-	<b>13</b>
	786	Special Industrial	3,835	3,835	9,587	11,504	9,587	-	<b>38,347</b>	8	8	32	14	10	-	<b>71</b>
	787	Light Industrial	-	-	96,858	193,716	193,716	-	<b>484,289</b>	-	-	323	242	194	-	<b>759</b>
	787	Special Industrial	854	854	2,136	2,563	2,136	-	<b>8,543</b>	2	2	7	3	2	-	<b>16</b>
	788	Light Industrial	-	-	6,820	13,641	13,641	-	<b>34,102</b>	-	-	23	17	14	-	<b>53</b>
<i>The Marketplace</i>																
	778	Commercial	13,208	8,805	-	-	-	-	<b>22,014</b>	26	18	-	-	-	-	<b>44</b>
	779	Commercial	1,051	701	-	-	-	-	<b>1,752</b>	2	1	-	-	-	-	<b>4</b>
	781	Commercial	6,499	4,333	-	-	-	-	<b>10,832</b>	13	9	-	-	-	-	<b>22</b>
	1511	Commercial	1,069	713	-	-	-	-	<b>1,782</b>	2	1	-	-	-	-	<b>4</b>
<i>Four Corners</i>																
	794	Commercial	197	131	-	-	-	-	<b>328</b>	0	0	-	-	-	-	<b>1</b>
	798	Commercial	7,492	4,995	-	-	-	-	<b>12,487</b>	15	10	-	-	-	-	<b>25</b>
	800	Commercial	7,382	4,922	-	-	-	-	<b>12,304</b>	15	10	-	-	-	-	<b>25</b>
<i>Lincoln-Alvarado Business Park</i>																
	796	Light Industrial	-	-	33,362	66,723	66,723	-	<b>166,808</b>	-	-	111	83	67	-	<b>261</b>
<i>Union Landing</i>																
	791	Regional Retail Commercial	96,937	10,771	-	-	-	-	<b>107,708</b>	194	22	-	-	-	-	<b>215</b>
<b>TOTAL</b>			<b>168,576</b>	<b>54,885</b>	<b>287,246</b>	<b>535,321</b>	<b>525,223</b>	<b>-</b>	<b>1,571,643</b>	<b>338</b>	<b>116</b>	<b>557</b>	<b>663</b>	<b>525</b>	<b>-</b>	<b>2,668</b>
<i>Summary by TAZ</i>																
	778		13,208	8,805	-	-	-	-	<b>22,014</b>	26	18	-	-	-	-	<b>44</b>
	779		1,051	701	-	-	-	-	<b>1,752</b>	2	1	-	-	-	-	<b>4</b>
	781		6,499	4,333	-	-	-	-	<b>10,832</b>	13	9	-	-	-	-	<b>22</b>
	785		-	-	1,315	6,574	5,259	-	<b>13,149</b>	-	-	4	8	5	-	<b>18</b>
	786		3,835	3,835	68,856	122,072	120,155	-	<b>318,753</b>	8	8	230	153	120	-	<b>518</b>
	787		854	854	98,994	196,279	195,851	-	<b>492,832</b>	2	2	330	245	196	-	<b>775</b>
	788		-	-	6,820	13,641	13,641	-	<b>34,102</b>	-	-	23	17	14	-	<b>53</b>
	790		4,033	4,033	10,082	12,098	10,082	-	<b>40,326</b>	8	8	34	15	10	-	<b>75</b>
	791		96,937	10,771	-	-	-	-	<b>107,708</b>	194	22	-	-	-	-	<b>215</b>
	792		17,568	1,952	-	-	-	-	<b>19,520</b>	35	4	-	-	-	-	<b>39</b>
	793		8,845	8,845	67,812	117,935	113,512	-	<b>316,949</b>	18	18	226	147	114	-	<b>522</b>
	794		197	131	-	-	-	-	<b>328</b>	0	0	-	-	-	-	<b>1</b>
	796		-	-	33,362	66,723	66,723	-	<b>166,808</b>	-	-	111	83	67	-	<b>261</b>
	798		7,492	4,995	-	-	-	-	<b>12,487</b>	15	10	-	-	-	-	<b>25</b>
	800		7,382	4,922	-	-	-	-	<b>12,304</b>	15	10	-	-	-	-	<b>25</b>
	1511		1,069	713	-	-	-	-	<b>1,782</b>	2	1	-	-	-	-	<b>4</b>
<b>TOTAL</b>			<b>168,576</b>	<b>54,885</b>	<b>287,246</b>	<b>535,321</b>	<b>525,223</b>	<b>-</b>	<b>1,571,643</b>	<b>338</b>	<b>116</b>	<b>557</b>	<b>663</b>	<b>525</b>	<b>-</b>	<b>2,668</b>



Attachment 6: Buildout Summary by Land Use

Designation	Acres	Dwelling Units						Non-Residential Square Footage						Population					Employment						
		Single Family	Multifamily			TOTAL	Retail	Services	Office/Other	Manufacturing	Wholesale Trade	Agriculture	TOTAL	Single Family	Multifamily			TOTAL	Retail	Services	Office/Other	Manufacturing	Wholesale Trade	Agriculture	TOTAL
			Low	Med	High										Low	Med	High								
<b>Residential</b>																									
Residential (3-6 du/ac)	19.7027	79	-	-	-	79	-	-	-	-	-	-	311	-	-	-	-	-	-	-	-	-	-	-	
Residential (6-10 du/ac)	5.34111	32	4	-	-	36	-	-	-	-	-	-	127	14	-	-	-	-	14	-	-	-	-	-	
Residential (10-17 du/ac)	24.5556	-	79	238	-	317	-	-	-	-	-	-	-	314	597	-	-	-	911	-	-	-	-	-	
Residential (17-30 du/ac)	10.8111	-	-	196	65	262	-	-	-	-	-	-	-	-	493	164	-	-	657	-	-	-	-	-	
Residential (30-45 du/ac)	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Residential (45-60 du/ac)	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Mixed Use</b>																									
Mixed Use Commercial 17-30 (CMU 17-30)	9.52589	-	-	-	190	190	50,111	49,595	48,561	-	-	-	-	-	-	477	477	477	477	100	99	162	-	-	-
Mixed Use Commercial 30-45 (CMU 30-45)	3.43264	-	-	-	105	105	18,373	18,184	17,805	-	-	-	-	-	-	262	262	262	262	37	36	53	-	-	-
Station Mixed Use Commercial (CSMU)	0.87324	-	-	-	42	42	11,145	11,030	10,801	-	-	-	-	-	-	105	105	105	105	22	22	36	-	-	-
Employment Mixed Use (EMU)	29.7415	-	-	-	-	-	150,801	74,623	109,603	258,461	147,692	-	-	-	-	-	-	-	-	302	149	365	323	148	-
Station East Mixed Use (SEMU) - Employment Acres Only	47.2841	-	-	-	-	-	-	-	968,056	978,355	-	-	-	-	-	-	-	-	-	-	0	3,227	1,223	0	-
<b>Commercial</b>																									
Commercial (C)	5.32509	-	-	-	-	-	33,750	20,041	13,083	-	-	-	-	-	-	-	-	-	-	68	40	44	-	-	-
Regional Retail Commercial (CRR)	2.44636	-	-	-	-	-	115,822	12,736	-	-	-	-	-	-	-	-	-	-	-	232	25	-	-	-	-
Visitor and Thoroughfare Commercial (CVT)	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Office Commercial (CO)	0.80439	-	-	-	-	-	1,275	1,261	22,232	-	-	-	-	-	-	-	-	-	-	3	3	74	-	-	-
<b>Industrial</b>																									
General Industrial (MG)	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Light Industrial (ML)	46.9348	-	-	-	-	-	-	-	153,745	310,761	310,761	-	-	-	-	-	-	-	-	-	-	512	388	311	-
Special Industrial (MS)	10.1399	-	-	-	-	-	17,138	16,961	41,519	50,353	41,961	-	-	-	-	-	-	-	-	34	34	138	63	42	-
<b>Resource</b>																									
Open Space (OS)	20.1425	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Agricultural (A)	5.86421	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Public/Institutional</b>																									
Civic Facility (CF)	3.18835	-	-	-	-	-	-	-	31,249	-	-	-	-	-	-	-	-	-	-	-	-	104	-	-	-
Private Institutional (PI)	0.1168	-	-	-	-	-	-	-	1,145	-	-	-	-	-	-	-	-	-	-	-	-	4	-	-	-
<b>Subtotal</b>	<b>233.28</b>	<b>111</b>	<b>83</b>	<b>434</b>	<b>402</b>	<b>919</b>	<b>1,030</b>	<b>398,415</b>	<b>204,432</b>	<b>1,417,799</b>	<b>1,597,930</b>	<b>500,414</b>	<b>4,118,989</b>	<b>438</b>	<b>328</b>	<b>1,090</b>	<b>1,008</b>	<b>2,427</b>	<b>2,865</b>	<b>797</b>	<b>409</b>	<b>4,726</b>	<b>1,997</b>	<b>500</b>	<b>8,530</b>
<b>Approved/Pending Projects</b>		<b>333</b>	<b>2</b>	<b>70</b>	<b>2,895</b>	<b>2,967</b>	<b>3,300</b>	<b>110,500</b>	<b>32,500</b>	<b>2,193,800</b>	<b>30,600</b>	<b>30,600</b>	<b>2,398,000</b>	<b>1,319</b>	<b>9</b>	<b>175</b>	<b>7,118</b>	<b>7,302</b>	<b>15,923</b>	<b>221</b>	<b>65</b>	<b>7,313</b>	<b>38</b>	<b>31</b>	<b>7,668</b>
<b>Retail/Employment 10% Intensification</b>								<b>151,402</b>	<b>52,937</b>	<b>287,240</b>	<b>535,321</b>	<b>525,223</b>	<b>1,552,124</b>							<b>303</b>	<b>106</b>	<b>957</b>	<b>669</b>	<b>525</b>	<b>2,561</b>
<b>TOTAL</b>		<b>444</b>	<b>85</b>	<b>504</b>	<b>3,297</b>	<b>3,886</b>	<b>4,330</b>	<b>660,317</b>	<b>289,869</b>	<b>3,898,839</b>	<b>2,163,851</b>	<b>1,056,237</b>	<b>8,069,113</b>	<b>1,757</b>	<b>337</b>	<b>1,265</b>	<b>8,127</b>	<b>9,729</b>	<b>18,788</b>	<b>1,321</b>	<b>580</b>	<b>12,996</b>	<b>2,705</b>	<b>1,056</b>	<b>18,758</b>

Attachment 7: Summary Table by TAZ

TAZ	Total Dwelling Units				Single Family Dwelling Units				Multifamily Dwelling Units				Total Employment				Retail Employment				Service Employment				Office/Other Employment				Manufacturing Employment				Wholesale Employment				Agricultural Employment												
	Existing	Loss	New	2040 Buildout	Existing	Loss	New	2040 Buildout	Existing	Loss	New	2040 Buildout	Existing	Loss	New	2040 Buildout	Existing	Loss	New	2040 Buildout	Existing	Loss	New	2040 Buildout	Existing	Loss	New	2040 Buildout	Existing	Loss	New	2040 Buildout	Existing	Loss	New	2040 Buildout	Existing	Loss	New	2040 Buildout	Existing	Loss	New	2040 Buildout					
707	1	-	-	1	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
752	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
758	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
763	246	-	-	246	200	-	-	200	46	-	-	46	123	-	21	144	5	-	9	14	74	-	6	80	43	-	6	49	1	-	-	1	-	-	-	-	-	-	-	-	-								
770	220	-	300	520	125	-	300	425	35	-	-	35	330	-	0	330	-	-	-	-	23	-	-	23	287	-	-	287	-	-	-	-	-	-	-	-	-	20	-	0	20								
771	656	-	61	717	382	-	61	443	274	-	-	274	102	-	0	102	5	-	-	5	7	-	-	7	30	-	-	30	-	-	-	-	-	-	-	-	-	-	0	0									
772	894	-	74	968	701	-	17	718	193	-	57	250	376	-	70	446	6	-	20	26	155	-	19	174	163	-	32	201	14	-	19	-	14	8	-	-	8	24	-	0	24								
773	696	-	89	785	463	-	0	463	227	-	89	316	52	-	-	52	6	-	-	6	31	-	-	31	15	-	-	15	-	-	-	-	-	-	-	-	-	-	-	-									
774	171	-	686	857	-	-	-	-	171	-	686	857	104	-	3,339	4,043	12	-	56	68	42	-	60	102	2	-	3,823	3,825	41	-	-	-	41	7	-	-	7	-	-	-	-	-							
775	512	-	-	512	329	-	-	329	183	-	-	183	435	-	-	435	14	-	-	14	65	-	-	65	326	-	-	326	48	-	-	-	48	42	-	-	42	-	-	-	-	-							
776	-	-	1,550	1,550	-	-	-	-	-	-	1,550	1,550	2,395	(744)	4,610	6,261	359	(197)	160	322	707	(547)	-	160	899	-	3,227	4,126	265	-	1,223	1,488	165	-	-	165	-	-	-	-	-	-							
777	101	-	-	101	65	-	-	65	36	-	-	36	120	-	-	120	23	-	-	23	30	-	-	30	51	-	-	51	3	-	-	-	3	7	-	-	7	-	-	-	-	-							
778	720	-	42	762	-	-	-	-	720	-	42	762	267	-	1,321	2,188	72	-	60	132	117	-	46	163	44	-	1,815	1,859	21	-	-	-	21	13	-	-	13	-	-	-	-	-	-						
779	524	-	-	524	333	-	-	333	191	-	-	191	582	-	4	586	2	-	2	4	12	-	1	13	564	-	-	564	4	-	-	-	4	-	-	-	-	-	-	-	-	-							
780	558	-	-	558	355	-	-	355	203	-	-	203	235	-	73	374	7	-	3	10	100	-	3	103	188	-	74	262	-	-	-	-	-	-	-	-	-	-	-	-	-	-							
781	271	-	-	271	172	-	-	172	99	-	-	99	284	-	22	306	53	-	13	66	92	-	9	101	139	-	-	139	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
782	946	-	-	946	452	-	-	452	494	-	-	494	446	-	-	446	31	-	-	31	247	-	-	247	148	-	-	148	20	-	-	-	20	-	-	-	-	-	-	-	-	-	-						
783	643	-	63	706	308	-	-	308	335	-	63	404	411	-	-	411	30	-	-	30	163	-	-	163	116	-	4	120	32	-	-	-	32	-	-	-	-	-	-	10	-	-	10	-	-	-			
784	323	-	4	327	231	-	4	235	92	-	-	92	233	-	-	233	10	-	-	10	54	-	-	54	145	-	-	145	24	-	-	-	24	-	-	-	-	-	-	-	-	-	-	-					
785	-	-	-	-	-	-	-	-	-	-	-	-	259	-	18	277	8	-	-	8	19	-	-	19	88	-	4	92	135	-	8	143	9	-	5	14	-	-	-	-	-	-	-	-	-				
786	-	-	126	126	-	-	-	-	-	-	126	126	2,340	(50)	1,396	4,286	237	-	20	257	738	-	18	756	324	-	602	1,526	897	(50)	423	1,270	144	-	334	478	-	-	-	-	-	-	-	-	-				
787	-	-	-	-	-	-	-	-	-	-	-	-	2,612	-	925	3,537	179	-	2	181	765	-	2	767	840	-	394	1,234	489	-	234	783	339	-	234	573	-	-	-	-	-	-	-	-	-				
788	1,649	-	-	1,649	1,177	-	-	1,177	472	-	-	472	50	-	69	119	-	-	7	7	25	-	4	29	25	-	27	52	-	-	17	17	-	-	14	14	-	-	-	-	-	-	-	-					
789	1,091	-	2	1,093	1,034	-	2	1,036	57	-	-	57	419	-	-	419	67	-	-	67	140	-	-	140	155	-	-	155	53	-	-	53	4	-	-	4	-	-	-	-	-	-	-	-					
790	794	-	-	794	752	-	-	752	42	-	-	42	809	-	75	884	29	-	8	37	221	-	8	229	559	-	34	593	-	-	15	15	-	-	10	10	-	-	-	-	-	-	-	-	-				
791	-	-	-	-	-	-	-	-	-	-	-	-	856	-	215	1,071	729	-	194	923	68	-	22	90	50	-	-	50	8	-	-	8	1	-	-	1	-	-	-	-	-	-	-	-	-				
792	-	-	-	-	-	-	-	-	-	-	-	-	233	-	257	490	155	-	232	387	11	-	25	36	32	-	-	32	22	-	-	-	22	13	-	-	13	-	-	-	-	-	-	-	-	-			
793	-	-	-	-	-	-	-	-	-	-	-	-	1,427	-	837	2,264	47	-	44	91	335	-	44	379	536	-	364	900	393	-	220	613	116	-	165	281	-	-	-	-	-	-	-	-	-	-	-		
794	710	-	251	961	454	-	6	460	256	-	245	501	608	(30)	776	1,354	23	(3)	200	220	291	(7)	150	434	224	(10)	275	489	70	(10)	103	163	-	-	47	47	-	-	-	-	-	-	-	-	-	-			
795	194	-	14	208	124	-	9	133	70	-	5	75	20	-	9	29	-	-	2	2	10	-	2	12	10	-	4	14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
796	14	(14)	76	76	9	(9)	-	-	5	(5)	76	76	661	(119)	1,454	1,996	16	(8)	205	213	131	(66)	101	166	322	-	495	817	102	(25)	402	479	90	(20)	246	316	-	-	-	-	-	-	-	-	-	-	-		
797	884	-	33	917	873	-	33	906	11	-	-	11	7	-	-	7	4	-	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
798	1,309	-	-	1,309	1,088	-	-	1,088	221	-	-	221	359	-	25	384	32	-	15	47	87	-	10	97	225	-	-	225	9	-	-	-	9	-	-	-	-	-	-	-	-	-	-	-	-	-			
799	1,021	-	-	1,021	1,009	-	-	1,009	12	-	-	12	246	-	-	246	80	-	-	80	25	-	-	25	133	-	-	133	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
800	1,007	-	14	1,021	354	-	2	356	53	-	12	65	170	-	38	208	9	-	21	30	26	-	13	39	135	-	4	139	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
801	877	-	-	877	840	-	-	840	37	-	-	37	89	-	-	89	2	-	-	2	32	-	-	32	55	-	-	55	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
802	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
803	14	-	-	14	14	-	-	14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
824	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
826	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1508	-	-	-	-	-	-	-	-	-	-	-	-	102	-	-	102	16	-	-	16	17	-	-	17	34	-	-	34	24	-	-	-	24	11	-	-	11	-	-	-	-	-	-	-	-	-	-	-	-
1509	877	-	-	877	840	-	-	840	37	-	-	37	89	-	-	89	2	-	-	2	32	-	-	32	55	-	-	55	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1510	640	-	-	640	407	-	-	407	233	-	-	233	350	-	-	350	1	-	-	1	64	-	-	64	281	-	-																						

# Appendix C

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California Emission Estimator Model Data

Union City GPU - Alameda County, Annual

**Union City GPU**  
**Alameda County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	3,898.84	1000sqft	89.51	3,898,839.00	0
Manufacturing	2,163.85	1000sqft	49.68	2,163,851.00	0
Apartments Mid Rise	3,886.00	Dwelling Unit	102.26	3,886,000.00	11114
Single Family Housing	444.00	Dwelling Unit	144.16	799,200.00	1270
Strip Mall	950.19	1000sqft	21.81	950,186.00	0
Supermarket	1,056.24	1000sqft	24.25	1,056,237.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	63
<b>Climate Zone</b>	5			<b>Operational Year</b>	2040
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	641.35	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

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

## Union City GPU - Alameda County, Annual

## Project Characteristics -

Land Use - Retail and Service land uses are included together under Retail, Strip Mall category.

Construction Phase - Construction schedule adjusted to be complete in 2040.

Vehicle Trips - Trip generation rate factors adjusted to reflect Daily & Annual VMT provided in Transportation Impact Analysis (Mintier Harnish 2018).

Construction Off-road Equipment Mitigation - Applied relevant factors for compliance with "BAAQMD Basic Construction Mitigation Measures."

Mobile Land Use Mitigation -

Water Mitigation - CAP Measure WC-1.1

Waste Mitigation - CAP Measure WR-1.1, adjusted for AB 939

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	500.00	263.00
tblConstructionPhase	NumDays	300.00	158.00
tblConstructionPhase	NumDays	775.00	407.00
tblConstructionPhase	NumDays	7,750.00	4,069.00
tblConstructionPhase	NumDays	550.00	2,435.00
tblConstructionPhase	NumDays	550.00	289.00
tblGrading	AcresOfGrading	1,017.50	1,937.50
tblLandUse	LandUseSquareFeet	3,898,840.00	3,898,839.00
tblLandUse	LandUseSquareFeet	2,163,850.00	2,163,851.00
tblLandUse	LandUseSquareFeet	950,190.00	950,186.00
tblLandUse	LandUseSquareFeet	1,056,240.00	1,056,237.00
tblVehicleTrips	CC_TL	7.30	10.09
tblVehicleTrips	CC_TL	7.30	24.50
tblVehicleTrips	CC_TL	7.30	786.66
tblVehicleTrips	CC_TL	7.30	83.20
tblVehicleTrips	CC_TTP	48.00	100.00

## Union City GPU - Alameda County, Annual

tblVehicleTrips	CC_TTP	28.00	100.00
tblVehicleTrips	CC_TTP	64.40	100.00
tblVehicleTrips	CC_TTP	74.50	100.00
tblVehicleTrips	CNW_TL	7.30	10.09
tblVehicleTrips	CNW_TL	7.30	24.50
tblVehicleTrips	CNW_TL	7.30	786.66
tblVehicleTrips	CNW_TL	7.30	83.20
tblVehicleTrips	CNW_TTP	19.00	0.00
tblVehicleTrips	CNW_TTP	13.00	0.00
tblVehicleTrips	CNW_TTP	19.00	0.00
tblVehicleTrips	CNW_TTP	19.00	0.00
tblVehicleTrips	CW_TL	9.50	10.09
tblVehicleTrips	CW_TL	9.50	24.50
tblVehicleTrips	CW_TL	9.50	786.66
tblVehicleTrips	CW_TL	9.50	83.20
tblVehicleTrips	CW_TTP	33.00	0.00
tblVehicleTrips	CW_TTP	59.00	0.00
tblVehicleTrips	CW_TTP	16.60	0.00
tblVehicleTrips	CW_TTP	6.50	0.00
tblVehicleTrips	DV_TP	11.00	0.00
tblVehicleTrips	DV_TP	19.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	DV_TP	11.00	0.00
tblVehicleTrips	DV_TP	40.00	0.00
tblVehicleTrips	DV_TP	30.00	0.00
tblVehicleTrips	HO_TL	5.70	14.50
tblVehicleTrips	HO_TL	5.70	24.45

## Union City GPU - Alameda County, Annual

tblVehicleTrips	HO_TTP	54.00	0.00
tblVehicleTrips	HO_TTP	54.00	0.00
tblVehicleTrips	HS_TL	4.80	14.50
tblVehicleTrips	HS_TL	4.80	24.45
tblVehicleTrips	HS_TTP	15.00	0.00
tblVehicleTrips	HS_TTP	15.00	0.00
tblVehicleTrips	HW_TL	10.80	14.50
tblVehicleTrips	HW_TL	10.80	24.45
tblVehicleTrips	HW_TTP	31.00	100.00
tblVehicleTrips	HW_TTP	31.00	100.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	4.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	15.00	0.00
tblVehicleTrips	PB_TP	36.00	0.00
tblVehicleTrips	PR_TP	86.00	100.00
tblVehicleTrips	PR_TP	77.00	100.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	PR_TP	86.00	100.00
tblVehicleTrips	PR_TP	45.00	100.00
tblVehicleTrips	PR_TP	34.00	100.00
tblVehicleTrips	ST_TR	6.39	1.00
tblVehicleTrips	ST_TR	2.46	2.00
tblVehicleTrips	ST_TR	1.49	0.90
tblVehicleTrips	ST_TR	9.91	0.90
tblVehicleTrips	ST_TR	42.04	0.01

Union City GPU - Alameda County, Annual

tblVehicleTrips	ST_TR	177.59	1.99
tblVehicleTrips	SU_TR	5.86	1.00
tblVehicleTrips	SU_TR	1.05	2.00
tblVehicleTrips	SU_TR	0.62	0.90
tblVehicleTrips	SU_TR	8.62	0.90
tblVehicleTrips	SU_TR	20.43	0.01
tblVehicleTrips	SU_TR	166.44	1.99
tblVehicleTrips	WD_TR	6.65	1.00
tblVehicleTrips	WD_TR	11.03	2.00
tblVehicleTrips	WD_TR	3.82	0.90
tblVehicleTrips	WD_TR	9.52	0.90
tblVehicleTrips	WD_TR	44.32	0.01
tblVehicleTrips	WD_TR	102.24	1.99
tblWaterMitigation	UseWaterEfficientIrrigationSystemPercentReduction	6.1	50

## 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					
2019	0.2535	2.5437	1.5973	2.8400e-003	8.4200e-003	0.1275	0.1359	2.2400e-003	0.1186	0.1208	0.0000	253.5713	253.5713	0.0686	0.0000	255.2866
2020	0.4953	5.0046	2.8897	5.2000e-003	1.2909	0.2554	1.5463	0.7047	0.2359	0.9406	0.0000	456.6755	456.6755	0.1347	0.0000	460.0427



## Union City GPU - Alameda County, Annual

	ROG	NOx	CO	SO2	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	0.5527	6.0109	4.0088	8.0800e-003	1.9361	0.2597	2.1959	0.6046	0.2390	0.8436	0.0000	710.8519	710.8519	0.2246	0.0000	716.4678
2022	1.4612	13.2904	11.1247	0.0501	4.3069	0.2037	4.5106	1.1358	0.1889	1.3247	0.0000	4,638.3066	4,638.3066	0.3305	0.0000	4,646.5685
2023	2.7621	21.4871	21.3663	0.1165	7.4405	0.1481	7.5887	2.0148	0.1389	2.1537	0.0000	10,854.4415	10,854.4415	0.4237	0.0000	10,865.0328
2024	2.6216	21.2598	20.1783	0.1149	7.4978	0.1369	7.6347	2.0303	0.1283	2.1586	0.0000	10,709.2690	10,709.2690	0.4134	0.0000	10,719.6047
2025	2.4713	20.7902	18.8908	0.1120	7.4692	0.1244	7.5936	2.0225	0.1165	2.1391	0.0000	10,445.0517	10,445.0517	0.3995	0.0000	10,455.0400
2026	2.3631	20.5505	17.8820	0.1098	7.4692	0.1230	7.5923	2.0226	0.1153	2.1378	0.0000	10,249.0122	10,249.0122	0.3892	0.0000	10,258.7411
2027	2.2605	20.3149	16.9935	0.1079	7.4693	0.1209	7.5902	2.0226	0.1133	2.1359	0.0000	10,074.0328	10,074.0328	0.3801	0.0000	10,083.5359
2028	2.1469	20.0499	16.1532	0.1058	7.4407	0.1178	7.5585	2.0148	0.1105	2.1253	0.0000	9,883.6933	9,883.6933	0.3703	0.0000	9,892.9517
2029	2.0453	19.8897	15.4725	0.1046	7.4693	0.1158	7.5851	2.0226	0.1086	2.1312	0.0000	9,778.9826	9,778.9826	0.3651	0.0000	9,788.1107
2030	10.2623	19.3798	16.9017	0.1123	8.6570	0.0722	8.7292	2.3385	0.0688	2.4073	0.0000	10,472.4675	10,472.4675	0.3129	0.0000	10,480.2891
2031	10.1317	19.2246	16.1808	0.1110	8.6570	0.0698	8.7268	2.3385	0.0666	2.4052	0.0000	10,352.0354	10,352.0354	0.3064	0.0000	10,359.6947
2032	10.0578	19.1693	15.6217	0.1103	8.6902	0.0679	8.7581	2.3475	0.0649	2.4124	0.0000	10,289.7528	10,289.7528	0.3021	0.0000	10,297.3053
2033	9.8867	18.9140	14.9731	0.1085	8.6239	0.0655	8.6894	2.3296	0.0626	2.3922	0.0000	10,125.0750	10,125.0750	0.2954	0.0000	10,132.4599
2034	9.8054	18.8198	14.4754	0.1077	8.6239	0.0637	8.6875	2.3296	0.0609	2.3905	0.0000	10,052.0751	10,052.0751	0.2914	0.0000	10,059.3612
2035	9.7580	18.6974	14.0944	0.1074	8.6571	0.0534	8.7104	2.3386	0.0507	2.3893	0.0000	10,028.9740	10,028.9740	0.2881	0.0000	10,036.1769
2036	9.7954	18.7690	14.1484	0.1078	8.6902	0.0536	8.7438	2.3475	0.0509	2.3984	0.0000	10,067.3992	10,067.3992	0.2892	0.0000	10,074.6297
2037	9.7580	18.6974	14.0944	0.1074	8.6571	0.0534	8.7104	2.3386	0.0507	2.3893	0.0000	10,028.9740	10,028.9740	0.2881	0.0000	10,036.1769
2038	8.7018	4.8076	6.0190	0.0329	2.8595	0.0350	2.8945	0.7686	0.0341	0.8027	0.0000	3,030.9075	3,030.9075	0.0798	0.0000	3,032.9020

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2039	2.7678	0.2765	1.2230	3.8200e-003	0.3964	9.7900e-003	0.4062	0.1055	9.6900e-003	0.1151	0.0000	339.8680	339.8680	6.6700e-003	0.0000	340.0349
<b>Maximum</b>	<b>10.2623</b>	<b>21.4871</b>	<b>21.3663</b>	<b>0.1165</b>	<b>8.6902</b>	<b>0.2597</b>	<b>8.7581</b>	<b>2.3475</b>	<b>0.2390</b>	<b>2.4124</b>	<b>0.0000</b>	<b>10,854.44 15</b>	<b>10,854.44 15</b>	<b>0.4237</b>	<b>0.0000</b>	<b>10,865.03 28</b>

2.1 Overall Construction

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					
2019	0.2535	2.5437	1.5973	2.8400e-003	8.4200e-003	0.1275	0.1359	2.2400e-003	0.1186	0.1208	0.0000	253.5710	253.5710	0.0686	0.0000	255.2863
2020	0.4953	5.0046	2.8897	5.2000e-003	0.5904	0.2554	0.8458	0.3196	0.2359	0.5555	0.0000	456.6750	456.6750	0.1347	0.0000	460.0421
2021	0.5527	6.0109	4.0088	8.0800e-003	0.8825	0.2597	1.1423	0.2751	0.2390	0.5140	0.0000	710.8511	710.8511	0.2246	0.0000	716.4670
2022	1.4612	13.2904	11.1247	0.0501	3.4719	0.2037	3.6757	0.9264	0.1889	1.1153	0.0000	4,638.305 9	4,638.305 9	0.3305	0.0000	4,646.567 8
2023	2.7621	21.4871	21.3663	0.1165	7.4405	0.1481	7.5887	2.0148	0.1389	2.1537	0.0000	10,854.44 12	10,854.44 12	0.4237	0.0000	10,865.03 24
2024	2.6216	21.2598	20.1783	0.1149	7.4978	0.1369	7.6347	2.0303	0.1283	2.1586	0.0000	10,709.26 87	10,709.26 87	0.4134	0.0000	10,719.60 43
2025	2.4713	20.7902	18.8908	0.1120	7.4692	0.1244	7.5936	2.0225	0.1165	2.1391	0.0000	10,445.05 14	10,445.05 14	0.3995	0.0000	10,455.03 97
2026	2.3631	20.5505	17.8820	0.1098	7.4692	0.1230	7.5923	2.0226	0.1153	2.1378	0.0000	10,249.011 9	10,249.011 9	0.3892	0.0000	10,258.74 07
2027	2.2605	20.3149	16.9935	0.1079	7.4693	0.1209	7.5902	2.0226	0.1133	2.1359	0.0000	10,074.03 24	10,074.03 24	0.3801	0.0000	10,083.53 55
2028	2.1469	20.0499	16.1532	0.1058	7.4407	0.1178	7.5585	2.0148	0.1105	2.1253	0.0000	9,883.693 0	9,883.693 0	0.3703	0.0000	9,892.951 3

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2029	2.0453	19.8897	15.4725	0.1046	7.4693	0.1158	7.5851	2.0226	0.1086	2.1312	0.0000	9,778.9823	9,778.9823	0.3651	0.0000	9,788.1103
2030	10.2623	19.3798	16.9017	0.1123	8.6570	0.0722	8.7292	2.3385	0.0688	2.4073	0.0000	10,472.4671	10,472.4671	0.3129	0.0000	10,480.2886
2031	10.1317	19.2246	16.1808	0.1110	8.6570	0.0698	8.7268	2.3385	0.0666	2.4052	0.0000	10,352.0349	10,352.0349	0.3064	0.0000	10,359.6943
2032	10.0578	19.1693	15.6217	0.1103	8.6902	0.0679	8.7581	2.3475	0.0649	2.4124	0.0000	10,289.7523	10,289.7523	0.3021	0.0000	10,297.3048
2033	9.8867	18.9140	14.9731	0.1085	8.6239	0.0655	8.6894	2.3296	0.0626	2.3922	0.0000	10,125.0746	10,125.0746	0.2954	0.0000	10,132.4594
2034	9.8054	18.8198	14.4754	0.1077	8.6239	0.0637	8.6875	2.3296	0.0609	2.3905	0.0000	10,052.0747	10,052.0747	0.2914	0.0000	10,059.3608
2035	9.7580	18.6974	14.0944	0.1074	8.6571	0.0534	8.7104	2.3386	0.0507	2.3893	0.0000	10,028.9736	10,028.9736	0.2881	0.0000	10,036.1765
2036	9.7954	18.7690	14.1484	0.1078	8.6902	0.0536	8.7438	2.3475	0.0509	2.3984	0.0000	10,067.3988	10,067.3988	0.2892	0.0000	10,074.6293
2037	9.7580	18.6974	14.0944	0.1074	8.6571	0.0534	8.7104	2.3386	0.0507	2.3893	0.0000	10,028.9736	10,028.9736	0.2881	0.0000	10,036.1765
2038	8.7018	4.8076	6.0190	0.0329	2.8595	0.0350	2.8945	0.7686	0.0341	0.8027	0.0000	3,030.9071	3,030.9071	0.0798	0.0000	3,032.9015
2039	2.7678	0.2765	1.2230	3.8200e-003	0.3964	9.7900e-003	0.4062	0.1055	9.6900e-003	0.1151	0.0000	339.8679	339.8679	6.6700e-003	0.0000	340.0347
<b>Maximum</b>	<b>10.2623</b>	<b>21.4871</b>	<b>21.3663</b>	<b>0.1165</b>	<b>8.6902</b>	<b>0.2597</b>	<b>8.7581</b>	<b>2.3475</b>	<b>0.2390</b>	<b>2.4124</b>	<b>0.0000</b>	<b>10,854.4412</b>	<b>10,854.4412</b>	<b>0.4237</b>	<b>0.0000</b>	<b>10,865.0324</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
<b>Percent Reduction</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>1.96</b>	<b>0.00</b>	<b>1.92</b>	<b>2.55</b>	<b>0.00</b>	<b>2.41</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	6-17-2019	9-16-2019	1.2944	1.2944
2	9-17-2019	12-16-2019	1.2807	1.2807
3	12-17-2019	3-16-2020	1.2049	1.2049

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4	3-17-2020	6-16-2020	1.2027	1.2027
5	6-17-2020	9-16-2020	1.5276	1.5276
6	9-17-2020	12-16-2020	1.5149	1.5149
7	12-17-2020	3-16-2021	1.5525	1.5525
8	3-17-2021	6-16-2021	1.6659	1.6659
9	6-17-2021	9-16-2021	1.6658	1.6658
10	9-17-2021	12-16-2021	1.6481	1.6481
11	12-17-2021	3-16-2022	1.4122	1.4122
12	3-17-2022	6-16-2022	1.3987	1.3987
13	6-17-2022	9-16-2022	3.4118	3.4118
14	9-17-2022	12-16-2022	7.6208	7.6208
15	12-17-2022	3-16-2023	6.3215	6.3215
16	3-17-2023	6-16-2023	6.1032	6.1032
17	6-17-2023	9-16-2023	6.0826	6.0826
18	9-17-2023	12-16-2023	6.1219	6.1219
19	12-17-2023	3-16-2024	6.0213	6.0213
20	3-17-2024	6-16-2024	5.9652	5.9652
21	6-17-2024	9-16-2024	5.9460	5.9460
22	9-17-2024	12-16-2024	5.9798	5.9798
23	12-17-2024	3-16-2025	5.8190	5.8190
24	3-17-2025	6-16-2025	5.8332	5.8332
25	6-17-2025	9-16-2025	5.8152	5.8152
26	9-17-2025	12-16-2025	5.8441	5.8441
27	12-17-2025	3-16-2026	5.7216	5.7216
28	3-17-2026	6-16-2026	5.7464	5.7464
29	6-17-2026	9-16-2026	5.7295	5.7295
30	9-17-2026	12-16-2026	5.7542	5.7542

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31	12-17-2026	3-16-2027	5.6338	5.6338
32	3-17-2027	6-16-2027	5.6622	5.6622
33	6-17-2027	9-16-2027	5.6463	5.6463
34	9-17-2027	12-16-2027	5.6668	5.6668
35	12-17-2027	3-16-2028	5.6172	5.6172
36	3-17-2028	6-16-2028	5.5889	5.5889
37	6-17-2028	9-16-2028	5.5739	5.5739
38	9-17-2028	12-16-2028	5.5904	5.5904
39	12-17-2028	3-16-2029	5.4682	5.4682
40	3-17-2029	6-16-2029	5.5021	5.5021
41	6-17-2029	9-16-2029	5.4880	5.4880
42	9-17-2029	12-16-2029	5.5007	5.5007
43	12-17-2029	3-16-2030	7.0413	7.0413
44	3-17-2030	6-16-2030	7.4438	7.4438
45	6-17-2030	9-16-2030	7.4285	7.4285
46	9-17-2030	12-16-2030	7.4264	7.4264
47	12-17-2030	3-16-2031	7.2962	7.2962
48	3-17-2031	6-16-2031	7.3717	7.3717
49	6-17-2031	9-16-2031	7.3574	7.3574
50	9-17-2031	12-16-2031	7.3511	7.3511
51	12-17-2031	3-16-2032	7.3108	7.3108
52	3-17-2032	6-16-2032	7.3109	7.3109
53	6-17-2032	9-16-2032	7.2974	7.2974
54	9-17-2032	12-16-2032	7.2876	7.2876
55	12-17-2032	3-16-2033	7.1751	7.1751
56	3-17-2033	6-16-2033	7.2593	7.2593
57	6-17-2033	9-16-2033	7.2464	7.2464

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58	9-17-2033	12-16-2033	7.2337	7.2337
59	12-17-2033	3-16-2034	7.1273	7.1273
60	3-17-2034	6-16-2034	7.2145	7.2145
61	6-17-2034	9-16-2034	7.2022	7.2022
62	9-17-2034	12-16-2034	7.1872	7.1872
63	12-17-2034	3-16-2035	7.0599	7.0599
64	3-17-2035	6-16-2035	7.1436	7.1436
65	6-17-2035	9-16-2035	7.1317	7.1317
66	9-17-2035	12-16-2035	7.1152	7.1152
67	12-17-2035	3-16-2036	7.1263	7.1263
68	3-17-2036	6-16-2036	7.1436	7.1436
69	6-17-2036	9-16-2036	7.1317	7.1317
70	9-17-2036	12-16-2036	7.1152	7.1152
71	12-17-2036	3-16-2037	7.0480	7.0480
72	3-17-2037	6-16-2037	7.1436	7.1436
73	6-17-2037	9-16-2037	7.1317	7.1317
74	9-17-2037	12-16-2037	7.1152	7.1152
75	12-17-2037	3-16-2038	7.0480	7.0480
76	3-17-2038	6-16-2038	2.6973	2.6973
77	6-17-2038	9-16-2038	2.3252	2.3252
78	9-17-2038	12-16-2038	2.3080	2.3080
79	12-17-2038	3-16-2039	2.2841	2.2841
80	3-17-2039	6-16-2039	1.1894	1.1894
		Highest	7.6208	7.6208

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**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	69.8649	0.6338	48.2350	0.0341		2.4925	2.4925		2.4925	2.4925	233.5989	139.2879	372.8867	0.4417	0.0148	388.3534
Energy	1.2150	10.8902	8.1409	0.0663		0.8394	0.8394		0.8394	0.8394	0.0000	51,124.6367	51,124.6367	1.9985	0.5862	51,349.2974
Mobile	4.4635	37.7269	67.2962	0.4736	51.0380	0.1950	51.2329	13.7105	0.1826	13.8931	0.0000	44,053.5341	44,053.5341	1.1605	0.0000	44,082.5469
Waste						0.0000	0.0000		0.0000	0.0000	3,163.6020	0.0000	3,163.6020	186.9635	0.0000	7,837.6900
Water						0.0000	0.0000		0.0000	0.0000	531.7322	3,299.8561	3,831.5883	54.7632	1.3204	5,594.1554
<b>Total</b>	<b>75.5433</b>	<b>49.2509</b>	<b>123.6721</b>	<b>0.5740</b>	<b>51.0380</b>	<b>3.5269</b>	<b>54.5648</b>	<b>13.7105</b>	<b>3.5145</b>	<b>17.2250</b>	<b>3,928.9331</b>	<b>98,617.3147</b>	<b>102,546.2478</b>	<b>245.3274</b>	<b>1.9215</b>	<b>109,252.0430</b>

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**2.2 Overall Operational**

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	69.8649	0.6338	48.2350	0.0341		2.4925	2.4925		2.4925	2.4925	233.5989	139.2879	372.8867	0.4417	0.0148	388.3534
Energy	1.2150	10.8902	8.1409	0.0663		0.8394	0.8394		0.8394	0.8394	0.0000	51,124.6367	51,124.6367	1.9985	0.5862	51,349.2974
Mobile	4.4635	37.7269	67.2962	0.4736	51.0380	0.1950	51.2329	13.7105	0.1826	13.8931	0.0000	44,053.5341	44,053.5341	1.1605	0.0000	44,082.5469
Waste						0.0000	0.0000		0.0000	0.0000	632.7204	0.0000	632.7204	37.3927	0.0000	1,567.5380
Water						0.0000	0.0000		0.0000	0.0000	531.7322	2,969.0788	3,500.8110	54.7483	1.3173	5,262.0821
<b>Total</b>	<b>75.5433</b>	<b>49.2509</b>	<b>123.6721</b>	<b>0.5740</b>	<b>51.0380</b>	<b>3.5269</b>	<b>54.5648</b>	<b>13.7105</b>	<b>3.5145</b>	<b>17.2250</b>	<b>1,398.0515</b>	<b>98,286.5375</b>	<b>99,684.5890</b>	<b>95.7417</b>	<b>1.9184</b>	<b>102,649.8176</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	64.42	0.34	2.79	60.97	0.16	6.04

**3.0 Construction Detail**

**Construction Phase**



## Union City GPU - Alameda County, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	6/17/2019	6/17/2020	5	263	
2	Site Preparation	Site Preparation	6/18/2020	1/25/2021	5	158	
3	Grading	Grading	1/26/2021	8/17/2022	5	407	
4	Building Construction	Building Construction	8/18/2022	3/23/2038	5	4069	
5	Architectural Coating	Architectural Coating	1/1/2030	5/2/2039	5	2435	
6	Paving	Paving	3/24/2038	5/2/2039	5	289	

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

**Acres of Grading (Grading Phase): 1937.5**

**Acres of Paving: 0**

**Residential Indoor: 9,487,530; Residential Outdoor: 3,162,510; Non-Residential Indoor: 12,103,670; Non-Residential Outdoor: 4,034,557;  
Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

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Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	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
Architectural Coating	Air Compressors	1	6.00	78	0.48
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

Trips and VMT

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Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	5,756.00	1,785.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	1,151.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Water Exposed Area

**3.2 Demolition - 2019**

**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	0.2495	2.5406	1.5663	2.7500e-003		0.1274	0.1274		0.1186	0.1186	0.0000	245.8469	245.8469	0.0684	0.0000	247.5568
<b>Total</b>	<b>0.2495</b>	<b>2.5406</b>	<b>1.5663</b>	<b>2.7500e-003</b>		<b>0.1274</b>	<b>0.1274</b>		<b>0.1186</b>	<b>0.1186</b>	<b>0.0000</b>	<b>245.8469</b>	<b>245.8469</b>	<b>0.0684</b>	<b>0.0000</b>	<b>247.5568</b>

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**3.2 Demolition - 2019**

**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	4.0300e-003	3.0700e-003	0.0311	9.0000e-005	8.4200e-003	6.0000e-005	8.4800e-003	2.2400e-003	6.0000e-005	2.3000e-003	0.0000	7.7244	7.7244	2.2000e-004	0.0000	7.7299
<b>Total</b>	<b>4.0300e-003</b>	<b>3.0700e-003</b>	<b>0.0311</b>	<b>9.0000e-005</b>	<b>8.4200e-003</b>	<b>6.0000e-005</b>	<b>8.4800e-003</b>	<b>2.2400e-003</b>	<b>6.0000e-005</b>	<b>2.3000e-003</b>	<b>0.0000</b>	<b>7.7244</b>	<b>7.7244</b>	<b>2.2000e-004</b>	<b>0.0000</b>	<b>7.7299</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2495	2.5406	1.5663	2.7500e-003		0.1274	0.1274		0.1186	0.1186	0.0000	245.8466	245.8466	0.0684	0.0000	247.5565
<b>Total</b>	<b>0.2495</b>	<b>2.5406</b>	<b>1.5663</b>	<b>2.7500e-003</b>		<b>0.1274</b>	<b>0.1274</b>		<b>0.1186</b>	<b>0.1186</b>	<b>0.0000</b>	<b>245.8466</b>	<b>245.8466</b>	<b>0.0684</b>	<b>0.0000</b>	<b>247.5565</b>

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**3.2 Demolition - 2019**

**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	4.0300e-003	3.0700e-003	0.0311	9.0000e-005	8.4200e-003	6.0000e-005	8.4800e-003	2.2400e-003	6.0000e-005	2.3000e-003	0.0000	7.7244	7.7244	2.2000e-004	0.0000	7.7299
<b>Total</b>	<b>4.0300e-003</b>	<b>3.0700e-003</b>	<b>0.0311</b>	<b>9.0000e-005</b>	<b>8.4200e-003</b>	<b>6.0000e-005</b>	<b>8.4800e-003</b>	<b>2.2400e-003</b>	<b>6.0000e-005</b>	<b>2.3000e-003</b>	<b>0.0000</b>	<b>7.7244</b>	<b>7.7244</b>	<b>2.2000e-004</b>	<b>0.0000</b>	<b>7.7299</b>

**3.2 Demolition - 2020**

**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	0.2004	2.0087	1.3161	2.3500e-003		0.1004	0.1004		0.0933	0.0933	0.0000	205.6916	205.6916	0.0581	0.0000	207.1432
<b>Total</b>	<b>0.2004</b>	<b>2.0087</b>	<b>1.3161</b>	<b>2.3500e-003</b>		<b>0.1004</b>	<b>0.1004</b>		<b>0.0933</b>	<b>0.0933</b>	<b>0.0000</b>	<b>205.6916</b>	<b>205.6916</b>	<b>0.0581</b>	<b>0.0000</b>	<b>207.1432</b>

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**3.2 Demolition - 2020**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.1400e-003	2.3200e-003	0.0237	7.0000e-005	7.1800e-003	5.0000e-005	7.2300e-003	1.9100e-003	5.0000e-005	1.9500e-003	0.0000	6.3784	6.3784	1.6000e-004	0.0000	6.3825
<b>Total</b>	<b>3.1400e-003</b>	<b>2.3200e-003</b>	<b>0.0237</b>	<b>7.0000e-005</b>	<b>7.1800e-003</b>	<b>5.0000e-005</b>	<b>7.2300e-003</b>	<b>1.9100e-003</b>	<b>5.0000e-005</b>	<b>1.9500e-003</b>	<b>0.0000</b>	<b>6.3784</b>	<b>6.3784</b>	<b>1.6000e-004</b>	<b>0.0000</b>	<b>6.3825</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2004	2.0087	1.3161	2.3500e-003		0.1004	0.1004		0.0933	0.0933	0.0000	205.6913	205.6913	0.0581	0.0000	207.1430
<b>Total</b>	<b>0.2004</b>	<b>2.0087</b>	<b>1.3161</b>	<b>2.3500e-003</b>		<b>0.1004</b>	<b>0.1004</b>		<b>0.0933</b>	<b>0.0933</b>	<b>0.0000</b>	<b>205.6913</b>	<b>205.6913</b>	<b>0.0581</b>	<b>0.0000</b>	<b>207.1430</b>

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**3.2 Demolition - 2020**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.1400e-003	2.3200e-003	0.0237	7.0000e-005	7.1800e-003	5.0000e-005	7.2300e-003	1.9100e-003	5.0000e-005	1.9500e-003	0.0000	6.3784	6.3784	1.6000e-004	0.0000	6.3825
<b>Total</b>	<b>3.1400e-003</b>	<b>2.3200e-003</b>	<b>0.0237</b>	<b>7.0000e-005</b>	<b>7.1800e-003</b>	<b>5.0000e-005</b>	<b>7.2300e-003</b>	<b>1.9100e-003</b>	<b>5.0000e-005</b>	<b>1.9500e-003</b>	<b>0.0000</b>	<b>6.3784</b>	<b>6.3784</b>	<b>1.6000e-004</b>	<b>0.0000</b>	<b>6.3825</b>

**3.3 Site Preparation - 2020**

**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					1.2737	0.0000	1.2737	0.7001	0.0000	0.7001	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2874	2.9904	1.5167	2.6800e-003		0.1549	0.1549		0.1425	0.1425	0.0000	235.6863	235.6863	0.0762	0.0000	237.5919
<b>Total</b>	<b>0.2874</b>	<b>2.9904</b>	<b>1.5167</b>	<b>2.6800e-003</b>	<b>1.2737</b>	<b>0.1549</b>	<b>1.4286</b>	<b>0.7001</b>	<b>0.1425</b>	<b>0.8426</b>	<b>0.0000</b>	<b>235.6863</b>	<b>235.6863</b>	<b>0.0762</b>	<b>0.0000</b>	<b>237.5919</b>

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**3.3 Site Preparation - 2020**

**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	4.3900e-003	3.2400e-003	0.0332	1.0000e-004	0.0100	7.0000e-005	0.0101	2.6700e-003	6.0000e-005	2.7300e-003	0.0000	8.9192	8.9192	2.3000e-004	0.0000	8.9250
<b>Total</b>	<b>4.3900e-003</b>	<b>3.2400e-003</b>	<b>0.0332</b>	<b>1.0000e-004</b>	<b>0.0100</b>	<b>7.0000e-005</b>	<b>0.0101</b>	<b>2.6700e-003</b>	<b>6.0000e-005</b>	<b>2.7300e-003</b>	<b>0.0000</b>	<b>8.9192</b>	<b>8.9192</b>	<b>2.3000e-004</b>	<b>0.0000</b>	<b>8.9250</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.5732	0.0000	0.5732	0.3151	0.0000	0.3151	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2874	2.9904	1.5167	2.6800e-003		0.1549	0.1549		0.1425	0.1425	0.0000	235.6860	235.6860	0.0762	0.0000	237.5917
<b>Total</b>	<b>0.2874</b>	<b>2.9904</b>	<b>1.5167</b>	<b>2.6800e-003</b>	<b>0.5732</b>	<b>0.1549</b>	<b>0.7281</b>	<b>0.3151</b>	<b>0.1425</b>	<b>0.4576</b>	<b>0.0000</b>	<b>235.6860</b>	<b>235.6860</b>	<b>0.0762</b>	<b>0.0000</b>	<b>237.5917</b>



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**3.3 Site Preparation - 2020**

**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	4.3900e-003	3.2400e-003	0.0332	1.0000e-004	0.0100	7.0000e-005	0.0101	2.6700e-003	6.0000e-005	2.7300e-003	0.0000	8.9192	8.9192	2.3000e-004	0.0000	8.9250
<b>Total</b>	<b>4.3900e-003</b>	<b>3.2400e-003</b>	<b>0.0332</b>	<b>1.0000e-004</b>	<b>0.0100</b>	<b>7.0000e-005</b>	<b>0.0101</b>	<b>2.6700e-003</b>	<b>6.0000e-005</b>	<b>2.7300e-003</b>	<b>0.0000</b>	<b>8.9192</b>	<b>8.9192</b>	<b>2.3000e-004</b>	<b>0.0000</b>	<b>8.9250</b>

**3.3 Site Preparation - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1536	0.0000	0.1536	0.0844	0.0000	0.0844	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0331	0.3442	0.1798	3.2000e-004		0.0174	0.0174		0.0160	0.0160	0.0000	28.4204	28.4204	9.1900e-003	0.0000	28.6502
<b>Total</b>	<b>0.0331</b>	<b>0.3442</b>	<b>0.1798</b>	<b>3.2000e-004</b>	<b>0.1536</b>	<b>0.0174</b>	<b>0.1709</b>	<b>0.0844</b>	<b>0.0160</b>	<b>0.1004</b>	<b>0.0000</b>	<b>28.4204</b>	<b>28.4204</b>	<b>9.1900e-003</b>	<b>0.0000</b>	<b>28.6502</b>

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**3.3 Site Preparation - 2021**

**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	4.9000e-004	3.5000e-004	3.6500e-003	1.0000e-005	1.2100e-003	1.0000e-005	1.2200e-003	3.2000e-004	1.0000e-005	3.3000e-004	0.0000	1.0381	1.0381	2.0000e-005	0.0000	1.0387
<b>Total</b>	<b>4.9000e-004</b>	<b>3.5000e-004</b>	<b>3.6500e-003</b>	<b>1.0000e-005</b>	<b>1.2100e-003</b>	<b>1.0000e-005</b>	<b>1.2200e-003</b>	<b>3.2000e-004</b>	<b>1.0000e-005</b>	<b>3.3000e-004</b>	<b>0.0000</b>	<b>1.0381</b>	<b>1.0381</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>1.0387</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0691	0.0000	0.0691	0.0380	0.0000	0.0380	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0331	0.3442	0.1798	3.2000e-004		0.0174	0.0174		0.0160	0.0160	0.0000	28.4203	28.4203	9.1900e-003	0.0000	28.6501
<b>Total</b>	<b>0.0331</b>	<b>0.3442</b>	<b>0.1798</b>	<b>3.2000e-004</b>	<b>0.0691</b>	<b>0.0174</b>	<b>0.0865</b>	<b>0.0380</b>	<b>0.0160</b>	<b>0.0540</b>	<b>0.0000</b>	<b>28.4203</b>	<b>28.4203</b>	<b>9.1900e-003</b>	<b>0.0000</b>	<b>28.6501</b>

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**3.3 Site Preparation - 2021**

**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	4.9000e-004	3.5000e-004	3.6500e-003	1.0000e-005	1.2100e-003	1.0000e-005	1.2200e-003	3.2000e-004	1.0000e-005	3.3000e-004	0.0000	1.0381	1.0381	2.0000e-005	0.0000	1.0387
<b>Total</b>	<b>4.9000e-004</b>	<b>3.5000e-004</b>	<b>3.6500e-003</b>	<b>1.0000e-005</b>	<b>1.2100e-003</b>	<b>1.0000e-005</b>	<b>1.2200e-003</b>	<b>3.2000e-004</b>	<b>1.0000e-005</b>	<b>3.3000e-004</b>	<b>0.0000</b>	<b>1.0381</b>	<b>1.0381</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>1.0387</b>

**3.4 Grading - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.7621	0.0000	1.7621	0.5148	0.0000	0.5148	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.5113	5.6608	3.7672	7.5700e-003		0.2422	0.2422		0.2228	0.2228	0.0000	664.8388	664.8388	0.2150	0.0000	670.2143
<b>Total</b>	<b>0.5113</b>	<b>5.6608</b>	<b>3.7672</b>	<b>7.5700e-003</b>	<b>1.7621</b>	<b>0.2422</b>	<b>2.0043</b>	<b>0.5148</b>	<b>0.2228</b>	<b>0.7376</b>	<b>0.0000</b>	<b>664.8388</b>	<b>664.8388</b>	<b>0.2150</b>	<b>0.0000</b>	<b>670.2143</b>

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**3.4 Grading - 2021**

**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	7.7900e-003	5.5500e-003	0.0582	1.8000e-004	0.0193	1.3000e-004	0.0194	5.1300e-003	1.2000e-004	5.2500e-003	0.0000	16.5547	16.5547	4.0000e-004	0.0000	16.5646
<b>Total</b>	<b>7.7900e-003</b>	<b>5.5500e-003</b>	<b>0.0582</b>	<b>1.8000e-004</b>	<b>0.0193</b>	<b>1.3000e-004</b>	<b>0.0194</b>	<b>5.1300e-003</b>	<b>1.2000e-004</b>	<b>5.2500e-003</b>	<b>0.0000</b>	<b>16.5547</b>	<b>16.5547</b>	<b>4.0000e-004</b>	<b>0.0000</b>	<b>16.5646</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.7929	0.0000	0.7929	0.2317	0.0000	0.2317	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.5113	5.6608	3.7672	7.5700e-003		0.2422	0.2422		0.2228	0.2228	0.0000	664.8380	664.8380	0.2150	0.0000	670.2135
<b>Total</b>	<b>0.5113</b>	<b>5.6608</b>	<b>3.7672</b>	<b>7.5700e-003</b>	<b>0.7929</b>	<b>0.2422</b>	<b>1.0351</b>	<b>0.2317</b>	<b>0.2228</b>	<b>0.4545</b>	<b>0.0000</b>	<b>664.8380</b>	<b>664.8380</b>	<b>0.2150</b>	<b>0.0000</b>	<b>670.2135</b>

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**3.4 Grading - 2021**

**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	7.7900e-003	5.5500e-003	0.0582	1.8000e-004	0.0193	1.3000e-004	0.0194	5.1300e-003	1.2000e-004	5.2500e-003	0.0000	16.5547	16.5547	4.0000e-004	0.0000	16.5646
<b>Total</b>	<b>7.7900e-003</b>	<b>5.5500e-003</b>	<b>0.0582</b>	<b>1.8000e-004</b>	<b>0.0193</b>	<b>1.3000e-004</b>	<b>0.0194</b>	<b>5.1300e-003</b>	<b>1.2000e-004</b>	<b>5.2500e-003</b>	<b>0.0000</b>	<b>16.5547</b>	<b>16.5547</b>	<b>4.0000e-004</b>	<b>0.0000</b>	<b>16.5646</b>

**3.4 Grading - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.5182	0.0000	1.5182	0.3807	0.0000	0.3807	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2954	3.1657	2.3669	5.0600e-003		0.1332	0.1332		0.1226	0.1226	0.0000	444.4570	444.4570	0.1438	0.0000	448.0506
<b>Total</b>	<b>0.2954</b>	<b>3.1657</b>	<b>2.3669</b>	<b>5.0600e-003</b>	<b>1.5182</b>	<b>0.1332</b>	<b>1.6514</b>	<b>0.3807</b>	<b>0.1226</b>	<b>0.5033</b>	<b>0.0000</b>	<b>444.4570</b>	<b>444.4570</b>	<b>0.1438</b>	<b>0.0000</b>	<b>448.0506</b>

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**3.4 Grading - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.8300e-003	3.3200e-003	0.0356	1.2000e-004	0.0129	8.0000e-005	0.0130	3.4300e-003	8.0000e-005	3.5100e-003	0.0000	10.6561	10.6561	2.4000e-004	0.0000	10.6620
<b>Total</b>	<b>4.8300e-003</b>	<b>3.3200e-003</b>	<b>0.0356</b>	<b>1.2000e-004</b>	<b>0.0129</b>	<b>8.0000e-005</b>	<b>0.0130</b>	<b>3.4300e-003</b>	<b>8.0000e-005</b>	<b>3.5100e-003</b>	<b>0.0000</b>	<b>10.6561</b>	<b>10.6561</b>	<b>2.4000e-004</b>	<b>0.0000</b>	<b>10.6620</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.6832	0.0000	0.6832	0.1713	0.0000	0.1713	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2954	3.1657	2.3669	5.0600e-003		0.1332	0.1332		0.1226	0.1226	0.0000	444.4565	444.4565	0.1438	0.0000	448.0501
<b>Total</b>	<b>0.2954</b>	<b>3.1657</b>	<b>2.3669</b>	<b>5.0600e-003</b>	<b>0.6832</b>	<b>0.1332</b>	<b>0.8164</b>	<b>0.1713</b>	<b>0.1226</b>	<b>0.2939</b>	<b>0.0000</b>	<b>444.4565</b>	<b>444.4565</b>	<b>0.1438</b>	<b>0.0000</b>	<b>448.0501</b>

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**3.4 Grading - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.8300e-003	3.3200e-003	0.0356	1.2000e-004	0.0129	8.0000e-005	0.0130	3.4300e-003	8.0000e-005	3.5100e-003	0.0000	10.6561	10.6561	2.4000e-004	0.0000	10.6620
<b>Total</b>	<b>4.8300e-003</b>	<b>3.3200e-003</b>	<b>0.0356</b>	<b>1.2000e-004</b>	<b>0.0129</b>	<b>8.0000e-005</b>	<b>0.0130</b>	<b>3.4300e-003</b>	<b>8.0000e-005</b>	<b>3.5100e-003</b>	<b>0.0000</b>	<b>10.6561</b>	<b>10.6561</b>	<b>2.4000e-004</b>	<b>0.0000</b>	<b>10.6620</b>

**3.5 Building Construction - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0828	0.7574	0.7936	1.3100e-003		0.0392	0.0392		0.0369	0.0369	0.0000	112.3867	112.3867	0.0269	0.0000	113.0599
<b>Total</b>	<b>0.0828</b>	<b>0.7574</b>	<b>0.7936</b>	<b>1.3100e-003</b>		<b>0.0392</b>	<b>0.0392</b>		<b>0.0369</b>	<b>0.0369</b>	<b>0.0000</b>	<b>112.3867</b>	<b>112.3867</b>	<b>0.0269</b>	<b>0.0000</b>	<b>113.0599</b>

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**3.5 Building Construction - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.2505	8.7953	1.8373	0.0234	0.5686	0.0167	0.5853	0.1645	0.0160	0.1805	0.0000	2,245.7684	2,245.7684	0.1191	0.0000	2,248.7447
Worker	0.8278	0.5688	6.0913	0.0202	2.2073	0.0145	2.2217	0.5872	0.0133	0.6005	0.0000	1,825.0384	1,825.0384	0.0405	0.0000	1,826.0513
<b>Total</b>	<b>1.0782</b>	<b>9.3640</b>	<b>7.9286</b>	<b>0.0436</b>	<b>2.7759</b>	<b>0.0312</b>	<b>2.8070</b>	<b>0.7517</b>	<b>0.0293</b>	<b>0.7810</b>	<b>0.0000</b>	<b>4,070.8068</b>	<b>4,070.8068</b>	<b>0.1596</b>	<b>0.0000</b>	<b>4,074.7960</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0828	0.7574	0.7936	1.3100e-003		0.0392	0.0392		0.0369	0.0369	0.0000	112.3866	112.3866	0.0269	0.0000	113.0597
<b>Total</b>	<b>0.0828</b>	<b>0.7574</b>	<b>0.7936</b>	<b>1.3100e-003</b>		<b>0.0392</b>	<b>0.0392</b>		<b>0.0369</b>	<b>0.0369</b>	<b>0.0000</b>	<b>112.3866</b>	<b>112.3866</b>	<b>0.0269</b>	<b>0.0000</b>	<b>113.0597</b>



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**3.5 Building Construction - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.2505	8.7953	1.8373	0.0234	0.5686	0.0167	0.5853	0.1645	0.0160	0.1805	0.0000	2,245.768 4	2,245.768 4	0.1191	0.0000	2,248.744 7
Worker	0.8278	0.5688	6.0913	0.0202	2.2073	0.0145	2.2217	0.5872	0.0133	0.6005	0.0000	1,825.038 4	1,825.038 4	0.0405	0.0000	1,826.051 3
<b>Total</b>	<b>1.0782</b>	<b>9.3640</b>	<b>7.9286</b>	<b>0.0436</b>	<b>2.7759</b>	<b>0.0312</b>	<b>2.8070</b>	<b>0.7517</b>	<b>0.0293</b>	<b>0.7810</b>	<b>0.0000</b>	<b>4,070.806 8</b>	<b>4,070.806 8</b>	<b>0.1596</b>	<b>0.0000</b>	<b>4,074.796 0</b>

**3.5 Building Construction - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2045	1.8700	2.1117	3.5000e-003		0.0910	0.0910		0.0856	0.0856	0.0000	301.3462	301.3462	0.0717	0.0000	303.1383
<b>Total</b>	<b>0.2045</b>	<b>1.8700</b>	<b>2.1117</b>	<b>3.5000e-003</b>		<b>0.0910</b>	<b>0.0910</b>		<b>0.0856</b>	<b>0.0856</b>	<b>0.0000</b>	<b>301.3462</b>	<b>301.3462</b>	<b>0.0717</b>	<b>0.0000</b>	<b>303.1383</b>

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**3.5 Building Construction - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.4921	18.2496	4.3043	0.0610	1.5241	0.0193	1.5434	0.4409	0.0185	0.4594	0.0000	5,848.3311	5,848.3311	0.2548	0.0000	5,854.7016
Worker	2.0655	1.3675	14.9503	0.0520	5.9164	0.0378	5.9543	1.5739	0.0349	1.6087	0.0000	4,704.7643	4,704.7643	0.0971	0.0000	4,707.1929
<b>Total</b>	<b>2.5576</b>	<b>19.6171</b>	<b>19.2546</b>	<b>0.1130</b>	<b>7.4405</b>	<b>0.0572</b>	<b>7.4977</b>	<b>2.0148</b>	<b>0.0533</b>	<b>2.0681</b>	<b>0.0000</b>	<b>10,553.0954</b>	<b>10,553.0954</b>	<b>0.3520</b>	<b>0.0000</b>	<b>10,561.8945</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2045	1.8700	2.1117	3.5000e-003		0.0910	0.0910		0.0856	0.0856	0.0000	301.3458	301.3458	0.0717	0.0000	303.1380
<b>Total</b>	<b>0.2045</b>	<b>1.8700</b>	<b>2.1117</b>	<b>3.5000e-003</b>		<b>0.0910</b>	<b>0.0910</b>		<b>0.0856</b>	<b>0.0856</b>	<b>0.0000</b>	<b>301.3458</b>	<b>301.3458</b>	<b>0.0717</b>	<b>0.0000</b>	<b>303.1380</b>

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**3.5 Building Construction - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.4921	18.2496	4.3043	0.0610	1.5241	0.0193	1.5434	0.4409	0.0185	0.4594	0.0000	5,848.3311	5,848.3311	0.2548	0.0000	5,854.7016
Worker	2.0655	1.3675	14.9503	0.0520	5.9164	0.0378	5.9543	1.5739	0.0349	1.6087	0.0000	4,704.7643	4,704.7643	0.0971	0.0000	4,707.1929
<b>Total</b>	<b>2.5576</b>	<b>19.6171</b>	<b>19.2546</b>	<b>0.1130</b>	<b>7.4405</b>	<b>0.0572</b>	<b>7.4977</b>	<b>2.0148</b>	<b>0.0533</b>	<b>2.0681</b>	<b>0.0000</b>	<b>10,553.0954</b>	<b>10,553.0954</b>	<b>0.3520</b>	<b>0.0000</b>	<b>10,561.8945</b>

**3.5 Building Construction - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1928	1.7611	2.1179	3.5300e-003		0.0803	0.0803		0.0756	0.0756	0.0000	303.7223	303.7223	0.0718	0.0000	305.5179
<b>Total</b>	<b>0.1928</b>	<b>1.7611</b>	<b>2.1179</b>	<b>3.5300e-003</b>		<b>0.0803</b>	<b>0.0803</b>		<b>0.0756</b>	<b>0.0756</b>	<b>0.0000</b>	<b>303.7223</b>	<b>303.7223</b>	<b>0.0718</b>	<b>0.0000</b>	<b>305.5179</b>

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**3.5 Building Construction - 2024**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	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	0.4813	18.2567	4.1540	0.0610	1.5359	0.0192	1.5551	0.4443	0.0184	0.4627	0.0000	5,852.5032	5,852.5032	0.2536	0.0000	5,858.8432
Worker	1.9475	1.2420	13.9064	0.0503	5.9619	0.0373	5.9993	1.5860	0.0344	1.6204	0.0000	4,553.0435	4,553.0435	0.0880	0.0000	4,555.2436
<b>Total</b>	<b>2.4288</b>	<b>19.4987</b>	<b>18.0604</b>	<b>0.1113</b>	<b>7.4978</b>	<b>0.0566</b>	<b>7.5544</b>	<b>2.0303</b>	<b>0.0528</b>	<b>2.0831</b>	<b>0.0000</b>	<b>10,405.5467</b>	<b>10,405.5467</b>	<b>0.3416</b>	<b>0.0000</b>	<b>10,414.0868</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1928	1.7611	2.1179	3.5300e-003		0.0803	0.0803		0.0756	0.0756	0.0000	303.7220	303.7220	0.0718	0.0000	305.5175
<b>Total</b>	<b>0.1928</b>	<b>1.7611</b>	<b>2.1179</b>	<b>3.5300e-003</b>		<b>0.0803</b>	<b>0.0803</b>		<b>0.0756</b>	<b>0.0756</b>	<b>0.0000</b>	<b>303.7220</b>	<b>303.7220</b>	<b>0.0718</b>	<b>0.0000</b>	<b>305.5175</b>

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**3.5 Building Construction - 2024**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	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	0.4813	18.2567	4.1540	0.0610	1.5359	0.0192	1.5551	0.4443	0.0184	0.4627	0.0000	5,852.5032	5,852.5032	0.2536	0.0000	5,858.8432
Worker	1.9475	1.2420	13.9064	0.0503	5.9619	0.0373	5.9993	1.5860	0.0344	1.6204	0.0000	4,553.0435	4,553.0435	0.0880	0.0000	4,555.2436
<b>Total</b>	<b>2.4288</b>	<b>19.4987</b>	<b>18.0604</b>	<b>0.1113</b>	<b>7.4978</b>	<b>0.0566</b>	<b>7.5544</b>	<b>2.0303</b>	<b>0.0528</b>	<b>2.0831</b>	<b>0.0000</b>	<b>10,405.5467</b>	<b>10,405.5467</b>	<b>0.3416</b>	<b>0.0000</b>	<b>10,414.0868</b>

**3.5 Building Construction - 2025**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6549	302.6549	0.0711	0.0000	304.4335
<b>Total</b>	<b>0.1785</b>	<b>1.6273</b>	<b>2.0991</b>	<b>3.5200e-003</b>		<b>0.0689</b>	<b>0.0689</b>		<b>0.0648</b>	<b>0.0648</b>	<b>0.0000</b>	<b>302.6549</b>	<b>302.6549</b>	<b>0.0711</b>	<b>0.0000</b>	<b>304.4335</b>

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**3.5 Building Construction - 2025**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.4668	18.0405	3.9908	0.0604	1.5300	0.0189	1.5489	0.4426	0.0181	0.4607	0.0000	5,791.9046	5,791.9046	0.2491	0.0000	5,798.1308
Worker	1.8261	1.1224	12.8009	0.0481	5.9392	0.0366	5.9758	1.5799	0.0337	1.6136	0.0000	4,350.4923	4,350.4923	0.0793	0.0000	4,352.4757
<b>Total</b>	<b>2.2929</b>	<b>19.1629</b>	<b>16.7917</b>	<b>0.1084</b>	<b>7.4692</b>	<b>0.0555</b>	<b>7.5247</b>	<b>2.0225</b>	<b>0.0518</b>	<b>2.0743</b>	<b>0.0000</b>	<b>10,142.3969</b>	<b>10,142.3969</b>	<b>0.3284</b>	<b>0.0000</b>	<b>10,150.6065</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1784	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6545	302.6545	0.0711	0.0000	304.4331
<b>Total</b>	<b>0.1784</b>	<b>1.6273</b>	<b>2.0991</b>	<b>3.5200e-003</b>		<b>0.0689</b>	<b>0.0689</b>		<b>0.0648</b>	<b>0.0648</b>	<b>0.0000</b>	<b>302.6545</b>	<b>302.6545</b>	<b>0.0711</b>	<b>0.0000</b>	<b>304.4331</b>

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**3.5 Building Construction - 2025**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.4668	18.0405	3.9908	0.0604	1.5300	0.0189	1.5489	0.4426	0.0181	0.4607	0.0000	5,791.9046	5,791.9046	0.2491	0.0000	5,798.1308
Worker	1.8261	1.1224	12.8009	0.0481	5.9392	0.0366	5.9758	1.5799	0.0337	1.6136	0.0000	4,350.4923	4,350.4923	0.0793	0.0000	4,352.4757
<b>Total</b>	<b>2.2929</b>	<b>19.1629</b>	<b>16.7917</b>	<b>0.1084</b>	<b>7.4692</b>	<b>0.0555</b>	<b>7.5247</b>	<b>2.0225</b>	<b>0.0518</b>	<b>2.0743</b>	<b>0.0000</b>	<b>10,142.3969</b>	<b>10,142.3969</b>	<b>0.3284</b>	<b>0.0000</b>	<b>10,150.6065</b>

**3.5 Building Construction - 2026**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6549	302.6549	0.0711	0.0000	304.4335
<b>Total</b>	<b>0.1785</b>	<b>1.6273</b>	<b>2.0991</b>	<b>3.5200e-003</b>		<b>0.0689</b>	<b>0.0689</b>		<b>0.0648</b>	<b>0.0648</b>	<b>0.0000</b>	<b>302.6549</b>	<b>302.6549</b>	<b>0.0711</b>	<b>0.0000</b>	<b>304.4335</b>

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**3.5 Building Construction - 2026**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.4563	17.8977	3.8743	0.0600	1.5301	0.0186	1.5487	0.4426	0.0178	0.4604	0.0000	5,757.7594	5,757.7594	0.2458	0.0000	5,763.9044
Worker	1.7283	1.0255	11.9087	0.0463	5.9392	0.0356	5.9747	1.5799	0.0327	1.6127	0.0000	4,188.5980	4,188.5980	0.0722	0.0000	4,190.4031
<b>Total</b>	<b>2.1847</b>	<b>18.9232</b>	<b>15.7830</b>	<b>0.1063</b>	<b>7.4693</b>	<b>0.0542</b>	<b>7.5234</b>	<b>2.0226</b>	<b>0.0505</b>	<b>2.0731</b>	<b>0.0000</b>	<b>9,946.3573</b>	<b>9,946.3573</b>	<b>0.3180</b>	<b>0.0000</b>	<b>9,954.3076</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1784	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6545	302.6545	0.0711	0.0000	304.4331
<b>Total</b>	<b>0.1784</b>	<b>1.6273</b>	<b>2.0991</b>	<b>3.5200e-003</b>		<b>0.0689</b>	<b>0.0689</b>		<b>0.0648</b>	<b>0.0648</b>	<b>0.0000</b>	<b>302.6545</b>	<b>302.6545</b>	<b>0.0711</b>	<b>0.0000</b>	<b>304.4331</b>



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**3.5 Building Construction - 2026**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.4563	17.8977	3.8743	0.0600	1.5301	0.0186	1.5487	0.4426	0.0178	0.4604	0.0000	5,757.7594	5,757.7594	0.2458	0.0000	5,763.9044
Worker	1.7283	1.0255	11.9087	0.0463	5.9392	0.0356	5.9747	1.5799	0.0327	1.6127	0.0000	4,188.5980	4,188.5980	0.0722	0.0000	4,190.4031
<b>Total</b>	<b>2.1847</b>	<b>18.9232</b>	<b>15.7830</b>	<b>0.1063</b>	<b>7.4693</b>	<b>0.0542</b>	<b>7.5234</b>	<b>2.0226</b>	<b>0.0505</b>	<b>2.0731</b>	<b>0.0000</b>	<b>9,946.3573</b>	<b>9,946.3573</b>	<b>0.3180</b>	<b>0.0000</b>	<b>9,954.3076</b>

**3.5 Building Construction - 2027**

**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	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6549	302.6549	0.0711	0.0000	304.4335
<b>Total</b>	<b>0.1785</b>	<b>1.6273</b>	<b>2.0991</b>	<b>3.5200e-003</b>		<b>0.0689</b>	<b>0.0689</b>		<b>0.0648</b>	<b>0.0648</b>	<b>0.0000</b>	<b>302.6549</b>	<b>302.6549</b>	<b>0.0711</b>	<b>0.0000</b>	<b>304.4335</b>

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**3.5 Building Construction - 2027**

**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	0.4471	17.7483	3.7771	0.0597	1.5301	0.0183	1.5484	0.4426	0.0175	0.4602	0.0000	5,726.7249	5,726.7249	0.2431	0.0000	5,732.8032
Worker	1.6350	0.9393	11.1174	0.0447	5.9392	0.0337	5.9729	1.5799	0.0310	1.6109	0.0000	4,044.6530	4,044.6530	0.0659	0.0000	4,046.2991
<b>Total</b>	<b>2.0821</b>	<b>18.6876</b>	<b>14.8945</b>	<b>0.1043</b>	<b>7.4693</b>	<b>0.0520</b>	<b>7.5213</b>	<b>2.0226</b>	<b>0.0485</b>	<b>2.0711</b>	<b>0.0000</b>	<b>9,771.3779</b>	<b>9,771.3779</b>	<b>0.3090</b>	<b>0.0000</b>	<b>9,779.1024</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1784	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6545	302.6545	0.0711	0.0000	304.4331
<b>Total</b>	<b>0.1784</b>	<b>1.6273</b>	<b>2.0991</b>	<b>3.5200e-003</b>		<b>0.0689</b>	<b>0.0689</b>		<b>0.0648</b>	<b>0.0648</b>	<b>0.0000</b>	<b>302.6545</b>	<b>302.6545</b>	<b>0.0711</b>	<b>0.0000</b>	<b>304.4331</b>

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**3.5 Building Construction - 2027**

**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	0.4471	17.7483	3.7771	0.0597	1.5301	0.0183	1.5484	0.4426	0.0175	0.4602	0.0000	5,726.7249	5,726.7249	0.2431	0.0000	5,732.8032
Worker	1.6350	0.9393	11.1174	0.0447	5.9392	0.0337	5.9729	1.5799	0.0310	1.6109	0.0000	4,044.6530	4,044.6530	0.0659	0.0000	4,046.2991
<b>Total</b>	<b>2.0821</b>	<b>18.6876</b>	<b>14.8945</b>	<b>0.1043</b>	<b>7.4693</b>	<b>0.0520</b>	<b>7.5213</b>	<b>2.0226</b>	<b>0.0485</b>	<b>2.0711</b>	<b>0.0000</b>	<b>9,771.3779</b>	<b>9,771.3779</b>	<b>0.3090</b>	<b>0.0000</b>	<b>9,779.1024</b>

**3.5 Building Construction - 2028**

**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	0.1778	1.6211	2.0910	3.5000e-003		0.0686	0.0686		0.0645	0.0645	0.0000	301.4953	301.4953	0.0709	0.0000	303.2671
<b>Total</b>	<b>0.1778</b>	<b>1.6211</b>	<b>2.0910</b>	<b>3.5000e-003</b>		<b>0.0686</b>	<b>0.0686</b>		<b>0.0645</b>	<b>0.0645</b>	<b>0.0000</b>	<b>301.4953</b>	<b>301.4953</b>	<b>0.0709</b>	<b>0.0000</b>	<b>303.2671</b>

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**3.5 Building Construction - 2028**

**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	0.4376	17.5696	3.6831	0.0592	1.5243	0.0180	1.5423	0.4410	0.0172	0.4582	0.0000	5,679.7326	5,679.7326	0.2394	0.0000	5,685.7172
Worker	1.5316	0.8593	10.3791	0.0431	5.9164	0.0312	5.9476	1.5739	0.0287	1.6026	0.0000	3,902.4654	3,902.4654	0.0601	0.0000	3,903.9674
<b>Total</b>	<b>1.9691</b>	<b>18.4288</b>	<b>14.0622</b>	<b>0.1023</b>	<b>7.4407</b>	<b>0.0492</b>	<b>7.4899</b>	<b>2.0148</b>	<b>0.0459</b>	<b>2.0608</b>	<b>0.0000</b>	<b>9,582.1980</b>	<b>9,582.1980</b>	<b>0.2995</b>	<b>0.0000</b>	<b>9,589.6846</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1778	1.6211	2.0910	3.5000e-003		0.0686	0.0686		0.0645	0.0645	0.0000	301.4949	301.4949	0.0709	0.0000	303.2667
<b>Total</b>	<b>0.1778</b>	<b>1.6211</b>	<b>2.0910</b>	<b>3.5000e-003</b>		<b>0.0686</b>	<b>0.0686</b>		<b>0.0645</b>	<b>0.0645</b>	<b>0.0000</b>	<b>301.4949</b>	<b>301.4949</b>	<b>0.0709</b>	<b>0.0000</b>	<b>303.2667</b>

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**3.5 Building Construction - 2028**

**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	0.4376	17.5696	3.6831	0.0592	1.5243	0.0180	1.5423	0.4410	0.0172	0.4582	0.0000	5,679.7326	5,679.7326	0.2394	0.0000	5,685.7172
Worker	1.5316	0.8593	10.3791	0.0431	5.9164	0.0312	5.9476	1.5739	0.0287	1.6026	0.0000	3,902.4654	3,902.4654	0.0601	0.0000	3,903.9674
<b>Total</b>	<b>1.9691</b>	<b>18.4288</b>	<b>14.0622</b>	<b>0.1023</b>	<b>7.4407</b>	<b>0.0492</b>	<b>7.4899</b>	<b>2.0148</b>	<b>0.0459</b>	<b>2.0608</b>	<b>0.0000</b>	<b>9,582.1980</b>	<b>9,582.1980</b>	<b>0.2995</b>	<b>0.0000</b>	<b>9,589.6846</b>

**3.5 Building Construction - 2029**

**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	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6549	302.6549	0.0711	0.0000	304.4335
<b>Total</b>	<b>0.1785</b>	<b>1.6273</b>	<b>2.0991</b>	<b>3.5200e-003</b>		<b>0.0689</b>	<b>0.0689</b>		<b>0.0648</b>	<b>0.0648</b>	<b>0.0000</b>	<b>302.6549</b>	<b>302.6549</b>	<b>0.0711</b>	<b>0.0000</b>	<b>304.4335</b>

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**3.5 Building Construction - 2029**

**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	0.4305	17.4698	3.6078	0.0591	1.5302	0.0178	1.5479	0.4427	0.0170	0.4596	0.0000	5,671.1579	5,671.1579	0.2388	0.0000	5,677.1278
Worker	1.4364	0.7927	9.7657	0.0420	5.9392	0.0292	5.9684	1.5799	0.0269	1.6068	0.0000	3,805.1699	3,805.1699	0.0552	0.0000	3,806.5494
<b>Total</b>	<b>1.8669</b>	<b>18.2624</b>	<b>13.3735</b>	<b>0.1011</b>	<b>7.4693</b>	<b>0.0470</b>	<b>7.5163</b>	<b>2.0226</b>	<b>0.0439</b>	<b>2.0664</b>	<b>0.0000</b>	<b>9,476.3278</b>	<b>9,476.3278</b>	<b>0.2940</b>	<b>0.0000</b>	<b>9,483.6772</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1784	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6545	302.6545	0.0711	0.0000	304.4331
<b>Total</b>	<b>0.1784</b>	<b>1.6273</b>	<b>2.0991</b>	<b>3.5200e-003</b>		<b>0.0689</b>	<b>0.0689</b>		<b>0.0648</b>	<b>0.0648</b>	<b>0.0000</b>	<b>302.6545</b>	<b>302.6545</b>	<b>0.0711</b>	<b>0.0000</b>	<b>304.4331</b>

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**3.5 Building Construction - 2029**

**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	0.4305	17.4698	3.6078	0.0591	1.5302	0.0178	1.5479	0.4427	0.0170	0.4596	0.0000	5,671.1579	5,671.1579	0.2388	0.0000	5,677.1278
Worker	1.4364	0.7927	9.7657	0.0420	5.9392	0.0292	5.9684	1.5799	0.0269	1.6068	0.0000	3,805.1699	3,805.1699	0.0552	0.0000	3,806.5494
<b>Total</b>	<b>1.8669</b>	<b>18.2624</b>	<b>13.3735</b>	<b>0.1011</b>	<b>7.4693</b>	<b>0.0470</b>	<b>7.5163</b>	<b>2.0226</b>	<b>0.0439</b>	<b>2.0664</b>	<b>0.0000</b>	<b>9,476.3278</b>	<b>9,476.3278</b>	<b>0.2940</b>	<b>0.0000</b>	<b>9,483.6772</b>

**3.5 Building Construction - 2030**

**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	0.1708	1.0355	2.1085	4.0400e-003		0.0193	0.0193		0.0193	0.0193	0.0000	343.0336	343.0336	0.0138	0.0000	343.3777
<b>Total</b>	<b>0.1708</b>	<b>1.0355</b>	<b>2.1085</b>	<b>4.0400e-003</b>		<b>0.0193</b>	<b>0.0193</b>		<b>0.0193</b>	<b>0.0193</b>	<b>0.0000</b>	<b>343.0336</b>	<b>343.0336</b>	<b>0.0138</b>	<b>0.0000</b>	<b>343.3777</b>

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**3.5 Building Construction - 2030**

**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	0.4242	17.3573	3.5456	0.0588	1.5302	0.0175	1.5477	0.4427	0.0167	0.4594	0.0000	5,648.6495	5,648.6495	0.2370	0.0000	5,654.5753
Worker	1.3377	0.7294	9.1778	0.0409	5.9392	0.0273	5.9664	1.5799	0.0251	1.6050	0.0000	3,706.3277	3,706.3277	0.0506	0.0000	3,707.5927
<b>Total</b>	<b>1.7618</b>	<b>18.0867</b>	<b>12.7233</b>	<b>0.0997</b>	<b>7.4694</b>	<b>0.0448</b>	<b>7.5141</b>	<b>2.0226</b>	<b>0.0418</b>	<b>2.0644</b>	<b>0.0000</b>	<b>9,354.9772</b>	<b>9,354.9772</b>	<b>0.2876</b>	<b>0.0000</b>	<b>9,362.1680</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1708	1.0355	2.1085	4.0400e-003		0.0193	0.0193		0.0193	0.0193	0.0000	343.0332	343.0332	0.0138	0.0000	343.3773
<b>Total</b>	<b>0.1708</b>	<b>1.0355</b>	<b>2.1085</b>	<b>4.0400e-003</b>		<b>0.0193</b>	<b>0.0193</b>		<b>0.0193</b>	<b>0.0193</b>	<b>0.0000</b>	<b>343.0332</b>	<b>343.0332</b>	<b>0.0138</b>	<b>0.0000</b>	<b>343.3773</b>



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**3.5 Building Construction - 2030**

**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	0.4242	17.3573	3.5456	0.0588	1.5302	0.0175	1.5477	0.4427	0.0167	0.4594	0.0000	5,648.6495	5,648.6495	0.2370	0.0000	5,654.5753
Worker	1.3377	0.7294	9.1778	0.0409	5.9392	0.0273	5.9664	1.5799	0.0251	1.6050	0.0000	3,706.3277	3,706.3277	0.0506	0.0000	3,707.5927
<b>Total</b>	<b>1.7618</b>	<b>18.0867</b>	<b>12.7233</b>	<b>0.0997</b>	<b>7.4694</b>	<b>0.0448</b>	<b>7.5141</b>	<b>2.0226</b>	<b>0.0418</b>	<b>2.0644</b>	<b>0.0000</b>	<b>9,354.9772</b>	<b>9,354.9772</b>	<b>0.2876</b>	<b>0.0000</b>	<b>9,362.1680</b>

**3.5 Building Construction - 2031**

**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	0.1708	1.0355	2.1085	4.0400e-003		0.0193	0.0193		0.0193	0.0193	0.0000	343.0336	343.0336	0.0138	0.0000	343.3777
<b>Total</b>	<b>0.1708</b>	<b>1.0355</b>	<b>2.1085</b>	<b>4.0400e-003</b>		<b>0.0193</b>	<b>0.0193</b>		<b>0.0193</b>	<b>0.0193</b>	<b>0.0000</b>	<b>343.0336</b>	<b>343.0336</b>	<b>0.0138</b>	<b>0.0000</b>	<b>343.3777</b>

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**3.5 Building Construction - 2031**

**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	0.4195	17.2739	3.4991	0.0586	1.5302	0.0173	1.5475	0.4427	0.0165	0.4592	0.0000	5,632.2763	5,632.2763	0.2357	0.0000	5,638.1686
Worker	1.2327	0.6696	8.6158	0.0400	5.9392	0.0255	5.9646	1.5799	0.0234	1.6033	0.0000	3,619.6094	3,619.6094	0.0463	0.0000	3,620.7672
<b>Total</b>	<b>1.6522</b>	<b>17.9435</b>	<b>12.1149</b>	<b>0.0986</b>	<b>7.4694</b>	<b>0.0428</b>	<b>7.5121</b>	<b>2.0226</b>	<b>0.0400</b>	<b>2.0626</b>	<b>0.0000</b>	<b>9,251.8857</b>	<b>9,251.8857</b>	<b>0.2820</b>	<b>0.0000</b>	<b>9,258.9358</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1708	1.0355	2.1085	4.0400e-003		0.0193	0.0193		0.0193	0.0193	0.0000	343.0332	343.0332	0.0138	0.0000	343.3773
<b>Total</b>	<b>0.1708</b>	<b>1.0355</b>	<b>2.1085</b>	<b>4.0400e-003</b>		<b>0.0193</b>	<b>0.0193</b>		<b>0.0193</b>	<b>0.0193</b>	<b>0.0000</b>	<b>343.0332</b>	<b>343.0332</b>	<b>0.0138</b>	<b>0.0000</b>	<b>343.3773</b>

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**3.5 Building Construction - 2031**

**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	0.4195	17.2739	3.4991	0.0586	1.5302	0.0173	1.5475	0.4427	0.0165	0.4592	0.0000	5,632.2763	5,632.2763	0.2357	0.0000	5,638.1686
Worker	1.2327	0.6696	8.6158	0.0400	5.9392	0.0255	5.9646	1.5799	0.0234	1.6033	0.0000	3,619.6094	3,619.6094	0.0463	0.0000	3,620.7672
<b>Total</b>	<b>1.6522</b>	<b>17.9435</b>	<b>12.1149</b>	<b>0.0986</b>	<b>7.4694</b>	<b>0.0428</b>	<b>7.5121</b>	<b>2.0226</b>	<b>0.0400</b>	<b>2.0626</b>	<b>0.0000</b>	<b>9,251.8857</b>	<b>9,251.8857</b>	<b>0.2820</b>	<b>0.0000</b>	<b>9,258.9358</b>

**3.5 Building Construction - 2032**

**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	0.1715	1.0394	2.1166	4.0600e-003		0.0194	0.0194		0.0194	0.0194	0.0000	344.3479	344.3479	0.0138	0.0000	344.6933
<b>Total</b>	<b>0.1715</b>	<b>1.0394</b>	<b>2.1166</b>	<b>4.0600e-003</b>		<b>0.0194</b>	<b>0.0194</b>		<b>0.0194</b>	<b>0.0194</b>	<b>0.0000</b>	<b>344.3479</b>	<b>344.3479</b>	<b>0.0138</b>	<b>0.0000</b>	<b>344.6933</b>

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**3.5 Building Construction - 2032**

**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	0.4175	17.2718	3.4783	0.0587	1.5361	0.0172	1.5533	0.4444	0.0165	0.4608	0.0000	5,642.7728	5,642.7728	0.2356	0.0000	5,648.6622
Worker	1.1465	0.6216	8.1597	0.0393	5.9619	0.0239	5.9858	1.5860	0.0220	1.6080	0.0000	3,557.7567	3,557.7567	0.0428	0.0000	3,558.8266
<b>Total</b>	<b>1.5640</b>	<b>17.8934</b>	<b>11.6379</b>	<b>0.0980</b>	<b>7.4980</b>	<b>0.0411</b>	<b>7.5391</b>	<b>2.0304</b>	<b>0.0384</b>	<b>2.0688</b>	<b>0.0000</b>	<b>9,200.5295</b>	<b>9,200.5295</b>	<b>0.2784</b>	<b>0.0000</b>	<b>9,207.4888</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1715	1.0394	2.1166	4.0600e-003		0.0194	0.0194		0.0194	0.0194	0.0000	344.3475	344.3475	0.0138	0.0000	344.6929
<b>Total</b>	<b>0.1715</b>	<b>1.0394</b>	<b>2.1166</b>	<b>4.0600e-003</b>		<b>0.0194</b>	<b>0.0194</b>		<b>0.0194</b>	<b>0.0194</b>	<b>0.0000</b>	<b>344.3475</b>	<b>344.3475</b>	<b>0.0138</b>	<b>0.0000</b>	<b>344.6929</b>

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**3.5 Building Construction - 2032**

**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	0.4175	17.2718	3.4783	0.0587	1.5361	0.0172	1.5533	0.4444	0.0165	0.4608	0.0000	5,642.7728	5,642.7728	0.2356	0.0000	5,648.6622
Worker	1.1465	0.6216	8.1597	0.0393	5.9619	0.0239	5.9858	1.5860	0.0220	1.6080	0.0000	3,557.7567	3,557.7567	0.0428	0.0000	3,558.8266
<b>Total</b>	<b>1.5640</b>	<b>17.8934</b>	<b>11.6379</b>	<b>0.0980</b>	<b>7.4980</b>	<b>0.0411</b>	<b>7.5391</b>	<b>2.0304</b>	<b>0.0384</b>	<b>2.0688</b>	<b>0.0000</b>	<b>9,200.5295</b>	<b>9,200.5295</b>	<b>0.2784</b>	<b>0.0000</b>	<b>9,207.4888</b>

**3.5 Building Construction - 2033**

**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	0.1702	1.0315	2.1004	4.0200e-003		0.0193	0.0193		0.0193	0.0193	0.0000	341.7193	341.7193	0.0137	0.0000	342.0621
<b>Total</b>	<b>0.1702</b>	<b>1.0315</b>	<b>2.1004</b>	<b>4.0200e-003</b>		<b>0.0193</b>	<b>0.0193</b>		<b>0.0193</b>	<b>0.0193</b>	<b>0.0000</b>	<b>341.7193</b>	<b>341.7193</b>	<b>0.0137</b>	<b>0.0000</b>	<b>342.0621</b>

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**3.5 Building Construction - 2033**

**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	0.4118	17.0816	3.4239	0.0582	1.5244	0.0170	1.5413	0.4410	0.0162	0.4572	0.0000	5,591.4677	5,591.4677	0.2331	0.0000	5,597.2959
Worker	1.0612	0.5747	7.6795	0.0383	5.9164	0.0222	5.9386	1.5739	0.0204	1.5943	0.0000	3,465.6801	3,465.6801	0.0394	0.0000	3,466.6638
<b>Total</b>	<b>1.4730</b>	<b>17.6563</b>	<b>11.1034</b>	<b>0.0964</b>	<b>7.4408</b>	<b>0.0391</b>	<b>7.4799</b>	<b>2.0149</b>	<b>0.0366</b>	<b>2.0515</b>	<b>0.0000</b>	<b>9,057.1478</b>	<b>9,057.1478</b>	<b>0.2725</b>	<b>0.0000</b>	<b>9,063.9596</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1702	1.0315	2.1004	4.0200e-003		0.0193	0.0193		0.0193	0.0193	0.0000	341.7189	341.7189	0.0137	0.0000	342.0617
<b>Total</b>	<b>0.1702</b>	<b>1.0315</b>	<b>2.1004</b>	<b>4.0200e-003</b>		<b>0.0193</b>	<b>0.0193</b>		<b>0.0193</b>	<b>0.0193</b>	<b>0.0000</b>	<b>341.7189</b>	<b>341.7189</b>	<b>0.0137</b>	<b>0.0000</b>	<b>342.0617</b>

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**3.5 Building Construction - 2033**

**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	0.4118	17.0816	3.4239	0.0582	1.5244	0.0170	1.5413	0.4410	0.0162	0.4572	0.0000	5,591.4677	5,591.4677	0.2331	0.0000	5,597.2959
Worker	1.0612	0.5747	7.6795	0.0383	5.9164	0.0222	5.9386	1.5739	0.0204	1.5943	0.0000	3,465.6801	3,465.6801	0.0394	0.0000	3,466.6638
<b>Total</b>	<b>1.4730</b>	<b>17.6563</b>	<b>11.1034</b>	<b>0.0964</b>	<b>7.4408</b>	<b>0.0391</b>	<b>7.4799</b>	<b>2.0149</b>	<b>0.0366</b>	<b>2.0515</b>	<b>0.0000</b>	<b>9,057.1478</b>	<b>9,057.1478</b>	<b>0.2725</b>	<b>0.0000</b>	<b>9,063.9596</b>

**3.5 Building Construction - 2034**

**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	0.1702	1.0315	2.1004	4.0200e-003		0.0193	0.0193		0.0193	0.0193	0.0000	341.7193	341.7193	0.0137	0.0000	342.0621
<b>Total</b>	<b>0.1702</b>	<b>1.0315</b>	<b>2.1004</b>	<b>4.0200e-003</b>		<b>0.0193</b>	<b>0.0193</b>		<b>0.0193</b>	<b>0.0193</b>	<b>0.0000</b>	<b>341.7193</b>	<b>341.7193</b>	<b>0.0137</b>	<b>0.0000</b>	<b>342.0621</b>

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**3.5 Building Construction - 2034**

**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	0.4094	17.0301	3.3971	0.0581	1.5244	0.0168	1.5412	0.4410	0.0161	0.4571	0.0000	5,585.7310	5,585.7310	0.2326	0.0000	5,591.5466
Worker	0.9955	0.5391	7.2871	0.0376	5.9164	0.0208	5.9372	1.5739	0.0191	1.5930	0.0000	3,409.6258	3,409.6258	0.0365	0.0000	3,410.5376
<b>Total</b>	<b>1.4049</b>	<b>17.5692</b>	<b>10.6842</b>	<b>0.0958</b>	<b>7.4408</b>	<b>0.0376</b>	<b>7.4784</b>	<b>2.0149</b>	<b>0.0352</b>	<b>2.0501</b>	<b>0.0000</b>	<b>8,995.3568</b>	<b>8,995.3568</b>	<b>0.2691</b>	<b>0.0000</b>	<b>9,002.0843</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1702	1.0315	2.1004	4.0200e-003		0.0193	0.0193		0.0193	0.0193	0.0000	341.7189	341.7189	0.0137	0.0000	342.0617
<b>Total</b>	<b>0.1702</b>	<b>1.0315</b>	<b>2.1004</b>	<b>4.0200e-003</b>		<b>0.0193</b>	<b>0.0193</b>		<b>0.0193</b>	<b>0.0193</b>	<b>0.0000</b>	<b>341.7189</b>	<b>341.7189</b>	<b>0.0137</b>	<b>0.0000</b>	<b>342.0617</b>



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**3.5 Building Construction - 2034**

**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	0.4094	17.0301	3.3971	0.0581	1.5244	0.0168	1.5412	0.4410	0.0161	0.4571	0.0000	5,585.7310	5,585.7310	0.2326	0.0000	5,591.5466
Worker	0.9955	0.5391	7.2871	0.0376	5.9164	0.0208	5.9372	1.5739	0.0191	1.5930	0.0000	3,409.6258	3,409.6258	0.0365	0.0000	3,410.5376
<b>Total</b>	<b>1.4049</b>	<b>17.5692</b>	<b>10.6842</b>	<b>0.0958</b>	<b>7.4408</b>	<b>0.0376</b>	<b>7.4784</b>	<b>2.0149</b>	<b>0.0352</b>	<b>2.0501</b>	<b>0.0000</b>	<b>8,995.3568</b>	<b>8,995.3568</b>	<b>0.2691</b>	<b>0.0000</b>	<b>9,002.0843</b>

**3.5 Building Construction - 2035**

**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	0.1588	0.9346	2.1034	4.0400e-003		0.0118	0.0118		0.0118	0.0118	0.0000	343.0336	343.0336	0.0128	0.0000	343.3530
<b>Total</b>	<b>0.1588</b>	<b>0.9346</b>	<b>2.1034</b>	<b>4.0400e-003</b>		<b>0.0118</b>	<b>0.0118</b>		<b>0.0118</b>	<b>0.0118</b>	<b>0.0000</b>	<b>343.0336</b>	<b>343.0336</b>	<b>0.0128</b>	<b>0.0000</b>	<b>343.3530</b>

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**3.5 Building Construction - 2035**

**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	0.4088	17.0483	3.3867	0.0583	1.5303	0.0168	1.5470	0.4427	0.0160	0.4587	0.0000	5,602.9546	5,602.9546	0.2331	0.0000	5,608.7828
Worker	0.9417	0.5131	6.9754	0.0372	5.9392	0.0196	5.9588	1.5799	0.0180	1.5979	0.0000	3,374.8193	3,374.8193	0.0342	0.0000	3,375.6730
<b>Total</b>	<b>1.3505</b>	<b>17.5613</b>	<b>10.3621</b>	<b>0.0955</b>	<b>7.4694</b>	<b>0.0363</b>	<b>7.5058</b>	<b>2.0226</b>	<b>0.0340</b>	<b>2.0567</b>	<b>0.0000</b>	<b>8,977.7739</b>	<b>8,977.7739</b>	<b>0.2673</b>	<b>0.0000</b>	<b>8,984.4558</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1588	0.9346	2.1034	4.0400e-003		0.0118	0.0118		0.0118	0.0118	0.0000	343.0332	343.0332	0.0128	0.0000	343.3526
<b>Total</b>	<b>0.1588</b>	<b>0.9346</b>	<b>2.1034</b>	<b>4.0400e-003</b>		<b>0.0118</b>	<b>0.0118</b>		<b>0.0118</b>	<b>0.0118</b>	<b>0.0000</b>	<b>343.0332</b>	<b>343.0332</b>	<b>0.0128</b>	<b>0.0000</b>	<b>343.3526</b>

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**3.5 Building Construction - 2035**

**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	0.4088	17.0483	3.3867	0.0583	1.5303	0.0168	1.5470	0.4427	0.0160	0.4587	0.0000	5,602.9546	5,602.9546	0.2331	0.0000	5,608.7828
Worker	0.9417	0.5131	6.9754	0.0372	5.9392	0.0196	5.9588	1.5799	0.0180	1.5979	0.0000	3,374.8193	3,374.8193	0.0342	0.0000	3,375.6730
<b>Total</b>	<b>1.3505</b>	<b>17.5613</b>	<b>10.3621</b>	<b>0.0955</b>	<b>7.4694</b>	<b>0.0363</b>	<b>7.5058</b>	<b>2.0226</b>	<b>0.0340</b>	<b>2.0567</b>	<b>0.0000</b>	<b>8,977.7739</b>	<b>8,977.7739</b>	<b>0.2673</b>	<b>0.0000</b>	<b>8,984.4558</b>

**3.5 Building Construction - 2036**

**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	0.1594	0.9381	2.1114	4.0600e-003		0.0118	0.0118		0.0118	0.0118	0.0000	344.3479	344.3479	0.0128	0.0000	344.6686
<b>Total</b>	<b>0.1594</b>	<b>0.9381</b>	<b>2.1114</b>	<b>4.0600e-003</b>		<b>0.0118</b>	<b>0.0118</b>		<b>0.0118</b>	<b>0.0118</b>	<b>0.0000</b>	<b>344.3479</b>	<b>344.3479</b>	<b>0.0128</b>	<b>0.0000</b>	<b>344.6686</b>

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**3.5 Building Construction - 2036**

**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	0.4104	17.1136	3.3997	0.0585	1.5361	0.0168	1.5529	0.4444	0.0161	0.4605	0.0000	5,624.4218	5,624.4218	0.2340	0.0000	5,630.2724
Worker	0.9453	0.5150	7.0021	0.0374	5.9619	0.0197	5.9816	1.5860	0.0181	1.6041	0.0000	3,387.7496	3,387.7496	0.0343	0.0000	3,388.6066
<b>Total</b>	<b>1.3556</b>	<b>17.6286</b>	<b>10.4018</b>	<b>0.0959</b>	<b>7.4981</b>	<b>0.0365</b>	<b>7.5345</b>	<b>2.0304</b>	<b>0.0342</b>	<b>2.0645</b>	<b>0.0000</b>	<b>9,012.1715</b>	<b>9,012.1715</b>	<b>0.2683</b>	<b>0.0000</b>	<b>9,018.8790</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1594	0.9381	2.1114	4.0600e-003		0.0118	0.0118		0.0118	0.0118	0.0000	344.3475	344.3475	0.0128	0.0000	344.6682
<b>Total</b>	<b>0.1594</b>	<b>0.9381</b>	<b>2.1114</b>	<b>4.0600e-003</b>		<b>0.0118</b>	<b>0.0118</b>		<b>0.0118</b>	<b>0.0118</b>	<b>0.0000</b>	<b>344.3475</b>	<b>344.3475</b>	<b>0.0128</b>	<b>0.0000</b>	<b>344.6682</b>

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**3.5 Building Construction - 2036**

**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	0.4104	17.1136	3.3997	0.0585	1.5361	0.0168	1.5529	0.4444	0.0161	0.4605	0.0000	5,624.4218	5,624.4218	0.2340	0.0000	5,630.2724
Worker	0.9453	0.5150	7.0021	0.0374	5.9619	0.0197	5.9816	1.5860	0.0181	1.6041	0.0000	3,387.7496	3,387.7496	0.0343	0.0000	3,388.6066
<b>Total</b>	<b>1.3556</b>	<b>17.6286</b>	<b>10.4018</b>	<b>0.0959</b>	<b>7.4981</b>	<b>0.0365</b>	<b>7.5345</b>	<b>2.0304</b>	<b>0.0342</b>	<b>2.0645</b>	<b>0.0000</b>	<b>9,012.1715</b>	<b>9,012.1715</b>	<b>0.2683</b>	<b>0.0000</b>	<b>9,018.8790</b>

**3.5 Building Construction - 2037**

**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	0.1588	0.9346	2.1034	4.0400e-003		0.0118	0.0118		0.0118	0.0118	0.0000	343.0336	343.0336	0.0128	0.0000	343.3530
<b>Total</b>	<b>0.1588</b>	<b>0.9346</b>	<b>2.1034</b>	<b>4.0400e-003</b>		<b>0.0118</b>	<b>0.0118</b>		<b>0.0118</b>	<b>0.0118</b>	<b>0.0000</b>	<b>343.0336</b>	<b>343.0336</b>	<b>0.0128</b>	<b>0.0000</b>	<b>343.3530</b>

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**3.5 Building Construction - 2037**

**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	0.4088	17.0483	3.3867	0.0583	1.5303	0.0168	1.5470	0.4427	0.0160	0.4587	0.0000	5,602.9546	5,602.9546	0.2331	0.0000	5,608.7828
Worker	0.9417	0.5131	6.9754	0.0372	5.9392	0.0196	5.9588	1.5799	0.0180	1.5979	0.0000	3,374.8193	3,374.8193	0.0342	0.0000	3,375.6730
<b>Total</b>	<b>1.3505</b>	<b>17.5613</b>	<b>10.3621</b>	<b>0.0955</b>	<b>7.4694</b>	<b>0.0363</b>	<b>7.5058</b>	<b>2.0226</b>	<b>0.0340</b>	<b>2.0567</b>	<b>0.0000</b>	<b>8,977.7739</b>	<b>8,977.7739</b>	<b>0.2673</b>	<b>0.0000</b>	<b>8,984.4558</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1588	0.9346	2.1034	4.0400e-003		0.0118	0.0118		0.0118	0.0118	0.0000	343.0332	343.0332	0.0128	0.0000	343.3526
<b>Total</b>	<b>0.1588</b>	<b>0.9346</b>	<b>2.1034</b>	<b>4.0400e-003</b>		<b>0.0118</b>	<b>0.0118</b>		<b>0.0118</b>	<b>0.0118</b>	<b>0.0000</b>	<b>343.0332</b>	<b>343.0332</b>	<b>0.0128</b>	<b>0.0000</b>	<b>343.3526</b>

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**3.5 Building Construction - 2037**

**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	0.4088	17.0483	3.3867	0.0583	1.5303	0.0168	1.5470	0.4427	0.0160	0.4587	0.0000	5,602.9546	5,602.9546	0.2331	0.0000	5,608.7828
Worker	0.9417	0.5131	6.9754	0.0372	5.9392	0.0196	5.9588	1.5799	0.0180	1.5979	0.0000	3,374.8193	3,374.8193	0.0342	0.0000	3,375.6730
<b>Total</b>	<b>1.3505</b>	<b>17.5613</b>	<b>10.3621</b>	<b>0.0955</b>	<b>7.4694</b>	<b>0.0363</b>	<b>7.5058</b>	<b>2.0226</b>	<b>0.0340</b>	<b>2.0567</b>	<b>0.0000</b>	<b>8,977.7739</b>	<b>8,977.7739</b>	<b>0.2673</b>	<b>0.0000</b>	<b>8,984.4558</b>

**3.5 Building Construction - 2038**

**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	0.0353	0.2077	0.4674	9.0000e-004		2.6200e-003	2.6200e-003		2.6200e-003	2.6200e-003	0.0000	76.2297	76.2297	2.8400e-003	0.0000	76.3007
<b>Total</b>	<b>0.0353</b>	<b>0.2077</b>	<b>0.4674</b>	<b>9.0000e-004</b>		<b>2.6200e-003</b>	<b>2.6200e-003</b>		<b>2.6200e-003</b>	<b>2.6200e-003</b>	<b>0.0000</b>	<b>76.2297</b>	<b>76.2297</b>	<b>2.8400e-003</b>	<b>0.0000</b>	<b>76.3007</b>

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**3.5 Building Construction - 2038**

**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	0.0908	3.7885	0.7526	0.0130	0.3401	3.7200e-003	0.3438	0.0984	3.5600e-003	0.1019	0.0000	1,245.1010	1,245.1010	0.0518	0.0000	1,246.3962
Worker	0.2093	0.1140	1.5501	8.2700e-003	1.3198	4.3500e-003	1.3242	0.3511	4.0000e-003	0.3551	0.0000	749.9598	749.9598	7.5900e-003	0.0000	750.1496
<b>Total</b>	<b>0.3001</b>	<b>3.9025</b>	<b>2.3027</b>	<b>0.0212</b>	<b>1.6599</b>	<b>8.0700e-003</b>	<b>1.6680</b>	<b>0.4495</b>	<b>7.5600e-003</b>	<b>0.4570</b>	<b>0.0000</b>	<b>1,995.0609</b>	<b>1,995.0609</b>	<b>0.0594</b>	<b>0.0000</b>	<b>1,996.5457</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0353	0.2077	0.4674	9.0000e-004		2.6200e-003	2.6200e-003		2.6200e-003	2.6200e-003	0.0000	76.2296	76.2296	2.8400e-003	0.0000	76.3006
<b>Total</b>	<b>0.0353</b>	<b>0.2077</b>	<b>0.4674</b>	<b>9.0000e-004</b>		<b>2.6200e-003</b>	<b>2.6200e-003</b>		<b>2.6200e-003</b>	<b>2.6200e-003</b>	<b>0.0000</b>	<b>76.2296</b>	<b>76.2296</b>	<b>2.8400e-003</b>	<b>0.0000</b>	<b>76.3006</b>



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**3.5 Building Construction - 2038**

**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	0.0908	3.7885	0.7526	0.0130	0.3401	3.7200e-003	0.3438	0.0984	3.5600e-003	0.1019	0.0000	1,245.1010	1,245.1010	0.0518	0.0000	1,246.3962
Worker	0.2093	0.1140	1.5501	8.2700e-003	1.3198	4.3500e-003	1.3242	0.3511	4.0000e-003	0.3551	0.0000	749.9598	749.9598	7.5900e-003	0.0000	750.1496
<b>Total</b>	<b>0.3001</b>	<b>3.9025</b>	<b>2.3027</b>	<b>0.0212</b>	<b>1.6599</b>	<b>8.0700e-003</b>	<b>1.6680</b>	<b>0.4495</b>	<b>7.5600e-003</b>	<b>0.4570</b>	<b>0.0000</b>	<b>1,995.0609</b>	<b>1,995.0609</b>	<b>0.0594</b>	<b>0.0000</b>	<b>1,996.5457</b>

**3.6 Architectural Coating - 2030**

**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	8.0451					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0171	0.1117	0.2346	3.9000e-004		2.6500e-003	2.6500e-003		2.6500e-003	2.6500e-003	0.0000	33.3200	33.3200	1.3500e-003	0.0000	33.3537
<b>Total</b>	<b>8.0621</b>	<b>0.1117</b>	<b>0.2346</b>	<b>3.9000e-004</b>		<b>2.6500e-003</b>	<b>2.6500e-003</b>		<b>2.6500e-003</b>	<b>2.6500e-003</b>	<b>0.0000</b>	<b>33.3200</b>	<b>33.3200</b>	<b>1.3500e-003</b>	<b>0.0000</b>	<b>33.3537</b>

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**3.6 Architectural Coating - 2030**

**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	0.2675	0.1459	1.8352	8.1800e-003	1.1876	5.4500e-003	1.1931	0.3159	5.0100e-003	0.3209	0.0000	741.1368	741.1368	0.0101	0.0000	741.3897
<b>Total</b>	<b>0.2675</b>	<b>0.1459</b>	<b>1.8352</b>	<b>8.1800e-003</b>	<b>1.1876</b>	<b>5.4500e-003</b>	<b>1.1931</b>	<b>0.3159</b>	<b>5.0100e-003</b>	<b>0.3209</b>	<b>0.0000</b>	<b>741.1368</b>	<b>741.1368</b>	<b>0.0101</b>	<b>0.0000</b>	<b>741.3897</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	8.0451					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0171	0.1117	0.2346	3.9000e-004		2.6500e-003	2.6500e-003		2.6500e-003	2.6500e-003	0.0000	33.3199	33.3199	1.3500e-003	0.0000	33.3536
<b>Total</b>	<b>8.0621</b>	<b>0.1117</b>	<b>0.2346</b>	<b>3.9000e-004</b>		<b>2.6500e-003</b>	<b>2.6500e-003</b>		<b>2.6500e-003</b>	<b>2.6500e-003</b>	<b>0.0000</b>	<b>33.3199</b>	<b>33.3199</b>	<b>1.3500e-003</b>	<b>0.0000</b>	<b>33.3536</b>

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**3.6 Architectural Coating - 2030**

**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	0.2675	0.1459	1.8352	8.1800e-003	1.1876	5.4500e-003	1.1931	0.3159	5.0100e-003	0.3209	0.0000	741.1368	741.1368	0.0101	0.0000	741.3897
<b>Total</b>	<b>0.2675</b>	<b>0.1459</b>	<b>1.8352</b>	<b>8.1800e-003</b>	<b>1.1876</b>	<b>5.4500e-003</b>	<b>1.1931</b>	<b>0.3159</b>	<b>5.0100e-003</b>	<b>0.3209</b>	<b>0.0000</b>	<b>741.1368</b>	<b>741.1368</b>	<b>0.0101</b>	<b>0.0000</b>	<b>741.3897</b>

**3.6 Architectural Coating - 2031**

**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	8.0451					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0171	0.1117	0.2346	3.9000e-004		2.6500e-003	2.6500e-003		2.6500e-003	2.6500e-003	0.0000	33.3200	33.3200	1.3500e-003	0.0000	33.3537
<b>Total</b>	<b>8.0621</b>	<b>0.1117</b>	<b>0.2346</b>	<b>3.9000e-004</b>		<b>2.6500e-003</b>	<b>2.6500e-003</b>		<b>2.6500e-003</b>	<b>2.6500e-003</b>	<b>0.0000</b>	<b>33.3200</b>	<b>33.3200</b>	<b>1.3500e-003</b>	<b>0.0000</b>	<b>33.3537</b>

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**3.6 Architectural Coating - 2031**

**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	0.2465	0.1339	1.7229	7.9900e-003	1.1876	5.0900e-003	1.1927	0.3159	4.6800e-003	0.3206	0.0000	723.7961	723.7961	9.2600e-003	0.0000	724.0276
<b>Total</b>	<b>0.2465</b>	<b>0.1339</b>	<b>1.7229</b>	<b>7.9900e-003</b>	<b>1.1876</b>	<b>5.0900e-003</b>	<b>1.1927</b>	<b>0.3159</b>	<b>4.6800e-003</b>	<b>0.3206</b>	<b>0.0000</b>	<b>723.7961</b>	<b>723.7961</b>	<b>9.2600e-003</b>	<b>0.0000</b>	<b>724.0276</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	8.0451					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0171	0.1117	0.2346	3.9000e-004		2.6500e-003	2.6500e-003		2.6500e-003	2.6500e-003	0.0000	33.3199	33.3199	1.3500e-003	0.0000	33.3536
<b>Total</b>	<b>8.0621</b>	<b>0.1117</b>	<b>0.2346</b>	<b>3.9000e-004</b>		<b>2.6500e-003</b>	<b>2.6500e-003</b>		<b>2.6500e-003</b>	<b>2.6500e-003</b>	<b>0.0000</b>	<b>33.3199</b>	<b>33.3199</b>	<b>1.3500e-003</b>	<b>0.0000</b>	<b>33.3536</b>

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**3.6 Architectural Coating - 2031**

**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	0.2465	0.1339	1.7229	7.9900e-003	1.1876	5.0900e-003	1.1927	0.3159	4.6800e-003	0.3206	0.0000	723.7961	723.7961	9.2600e-003	0.0000	724.0276
<b>Total</b>	<b>0.2465</b>	<b>0.1339</b>	<b>1.7229</b>	<b>7.9900e-003</b>	<b>1.1876</b>	<b>5.0900e-003</b>	<b>1.1927</b>	<b>0.3159</b>	<b>4.6800e-003</b>	<b>0.3206</b>	<b>0.0000</b>	<b>723.7961</b>	<b>723.7961</b>	<b>9.2600e-003</b>	<b>0.0000</b>	<b>724.0276</b>

**3.6 Architectural Coating - 2032**

**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	8.0759					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0171	0.1122	0.2355	3.9000e-004		2.6600e-003	2.6600e-003		2.6600e-003	2.6600e-003	0.0000	33.4476	33.4476	1.3500e-003	0.0000	33.4815
<b>Total</b>	<b>8.0930</b>	<b>0.1122</b>	<b>0.2355</b>	<b>3.9000e-004</b>		<b>2.6600e-003</b>	<b>2.6600e-003</b>		<b>2.6600e-003</b>	<b>2.6600e-003</b>	<b>0.0000</b>	<b>33.4476</b>	<b>33.4476</b>	<b>1.3500e-003</b>	<b>0.0000</b>	<b>33.4815</b>

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**3.6 Architectural Coating - 2032**

**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	0.2293	0.1243	1.6317	7.8500e-003	1.1922	4.7800e-003	1.1970	0.3171	4.3900e-003	0.3215	0.0000	711.4277	711.4277	8.5600e-003	0.0000	711.6417
<b>Total</b>	<b>0.2293</b>	<b>0.1243</b>	<b>1.6317</b>	<b>7.8500e-003</b>	<b>1.1922</b>	<b>4.7800e-003</b>	<b>1.1970</b>	<b>0.3171</b>	<b>4.3900e-003</b>	<b>0.3215</b>	<b>0.0000</b>	<b>711.4277</b>	<b>711.4277</b>	<b>8.5600e-003</b>	<b>0.0000</b>	<b>711.6417</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	8.0759					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0171	0.1122	0.2355	3.9000e-004		2.6600e-003	2.6600e-003		2.6600e-003	2.6600e-003	0.0000	33.4476	33.4476	1.3500e-003	0.0000	33.4814
<b>Total</b>	<b>8.0930</b>	<b>0.1122</b>	<b>0.2355</b>	<b>3.9000e-004</b>		<b>2.6600e-003</b>	<b>2.6600e-003</b>		<b>2.6600e-003</b>	<b>2.6600e-003</b>	<b>0.0000</b>	<b>33.4476</b>	<b>33.4476</b>	<b>1.3500e-003</b>	<b>0.0000</b>	<b>33.4814</b>

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**3.6 Architectural Coating - 2032**

**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	0.2293	0.1243	1.6317	7.8500e-003	1.1922	4.7800e-003	1.1970	0.3171	4.3900e-003	0.3215	0.0000	711.4277	711.4277	8.5600e-003	0.0000	711.6417
<b>Total</b>	<b>0.2293</b>	<b>0.1243</b>	<b>1.6317</b>	<b>7.8500e-003</b>	<b>1.1922</b>	<b>4.7800e-003</b>	<b>1.1970</b>	<b>0.3171</b>	<b>4.3900e-003</b>	<b>0.3215</b>	<b>0.0000</b>	<b>711.4277</b>	<b>711.4277</b>	<b>8.5600e-003</b>	<b>0.0000</b>	<b>711.6417</b>

**3.6 Architectural Coating - 2033**

**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	8.0142					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0170	0.1113	0.2337	3.9000e-004		2.6400e-003	2.6400e-003		2.6400e-003	2.6400e-003	0.0000	33.1923	33.1923	1.3400e-003	0.0000	33.2259
<b>Total</b>	<b>8.0312</b>	<b>0.1113</b>	<b>0.2337</b>	<b>3.9000e-004</b>		<b>2.6400e-003</b>	<b>2.6400e-003</b>		<b>2.6400e-003</b>	<b>2.6400e-003</b>	<b>0.0000</b>	<b>33.1923</b>	<b>33.1923</b>	<b>1.3400e-003</b>	<b>0.0000</b>	<b>33.2259</b>

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**3.6 Architectural Coating - 2033**

**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	0.2122	0.1149	1.5356	7.6500e-003	1.1831	4.4400e-003	1.1875	0.3147	4.0800e-003	0.3188	0.0000	693.0156	693.0156	7.8700e-003	0.0000	693.2123
<b>Total</b>	<b>0.2122</b>	<b>0.1149</b>	<b>1.5356</b>	<b>7.6500e-003</b>	<b>1.1831</b>	<b>4.4400e-003</b>	<b>1.1875</b>	<b>0.3147</b>	<b>4.0800e-003</b>	<b>0.3188</b>	<b>0.0000</b>	<b>693.0156</b>	<b>693.0156</b>	<b>7.8700e-003</b>	<b>0.0000</b>	<b>693.2123</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	8.0142					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0170	0.1113	0.2337	3.9000e-004		2.6400e-003	2.6400e-003		2.6400e-003	2.6400e-003	0.0000	33.1923	33.1923	1.3400e-003	0.0000	33.2258
<b>Total</b>	<b>8.0312</b>	<b>0.1113</b>	<b>0.2337</b>	<b>3.9000e-004</b>		<b>2.6400e-003</b>	<b>2.6400e-003</b>		<b>2.6400e-003</b>	<b>2.6400e-003</b>	<b>0.0000</b>	<b>33.1923</b>	<b>33.1923</b>	<b>1.3400e-003</b>	<b>0.0000</b>	<b>33.2258</b>



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**3.6 Architectural Coating - 2033**

**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	0.2122	0.1149	1.5356	7.6500e-003	1.1831	4.4400e-003	1.1875	0.3147	4.0800e-003	0.3188	0.0000	693.0156	693.0156	7.8700e-003	0.0000	693.2123
<b>Total</b>	<b>0.2122</b>	<b>0.1149</b>	<b>1.5356</b>	<b>7.6500e-003</b>	<b>1.1831</b>	<b>4.4400e-003</b>	<b>1.1875</b>	<b>0.3147</b>	<b>4.0800e-003</b>	<b>0.3188</b>	<b>0.0000</b>	<b>693.0156</b>	<b>693.0156</b>	<b>7.8700e-003</b>	<b>0.0000</b>	<b>693.2123</b>

**3.6 Architectural Coating - 2034**

**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	8.0142					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0170	0.1113	0.2337	3.9000e-004		2.6400e-003	2.6400e-003		2.6400e-003	2.6400e-003	0.0000	33.1923	33.1923	1.3400e-003	0.0000	33.2259
<b>Total</b>	<b>8.0312</b>	<b>0.1113</b>	<b>0.2337</b>	<b>3.9000e-004</b>		<b>2.6400e-003</b>	<b>2.6400e-003</b>		<b>2.6400e-003</b>	<b>2.6400e-003</b>	<b>0.0000</b>	<b>33.1923</b>	<b>33.1923</b>	<b>1.3400e-003</b>	<b>0.0000</b>	<b>33.2259</b>

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**3.6 Architectural Coating - 2034**

**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	0.1991	0.1078	1.4572	7.5200e-003	1.1831	4.1600e-003	1.1872	0.3147	3.8200e-003	0.3185	0.0000	681.8067	681.8067	7.2900e-003	0.0000	681.9890
<b>Total</b>	<b>0.1991</b>	<b>0.1078</b>	<b>1.4572</b>	<b>7.5200e-003</b>	<b>1.1831</b>	<b>4.1600e-003</b>	<b>1.1872</b>	<b>0.3147</b>	<b>3.8200e-003</b>	<b>0.3185</b>	<b>0.0000</b>	<b>681.8067</b>	<b>681.8067</b>	<b>7.2900e-003</b>	<b>0.0000</b>	<b>681.9890</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	8.0142					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0170	0.1113	0.2337	3.9000e-004		2.6400e-003	2.6400e-003		2.6400e-003	2.6400e-003	0.0000	33.1923	33.1923	1.3400e-003	0.0000	33.2258
<b>Total</b>	<b>8.0312</b>	<b>0.1113</b>	<b>0.2337</b>	<b>3.9000e-004</b>		<b>2.6400e-003</b>	<b>2.6400e-003</b>		<b>2.6400e-003</b>	<b>2.6400e-003</b>	<b>0.0000</b>	<b>33.1923</b>	<b>33.1923</b>	<b>1.3400e-003</b>	<b>0.0000</b>	<b>33.2258</b>

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**3.6 Architectural Coating - 2034**

**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	0.1991	0.1078	1.4572	7.5200e-003	1.1831	4.1600e-003	1.1872	0.3147	3.8200e-003	0.3185	0.0000	681.8067	681.8067	7.2900e-003	0.0000	681.9890
<b>Total</b>	<b>0.1991</b>	<b>0.1078</b>	<b>1.4572</b>	<b>7.5200e-003</b>	<b>1.1831</b>	<b>4.1600e-003</b>	<b>1.1872</b>	<b>0.3147</b>	<b>3.8200e-003</b>	<b>0.3185</b>	<b>0.0000</b>	<b>681.8067</b>	<b>681.8067</b>	<b>7.2900e-003</b>	<b>0.0000</b>	<b>681.9890</b>

**3.6 Architectural Coating - 2035**

**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	8.0451					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0154	0.0989	0.2342	3.9000e-004		1.2900e-003	1.2900e-003		1.2900e-003	1.2900e-003	0.0000	33.3200	33.3200	1.2300e-003	0.0000	33.3507
<b>Total</b>	<b>8.0604</b>	<b>0.0989</b>	<b>0.2342</b>	<b>3.9000e-004</b>		<b>1.2900e-003</b>	<b>1.2900e-003</b>		<b>1.2900e-003</b>	<b>1.2900e-003</b>	<b>0.0000</b>	<b>33.3200</b>	<b>33.3200</b>	<b>1.2300e-003</b>	<b>0.0000</b>	<b>33.3507</b>

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**3.6 Architectural Coating - 2035**

**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	0.1883	0.1026	1.3948	7.4500e-003	1.1876	3.9200e-003	1.1916	0.3159	3.6000e-003	0.3195	0.0000	674.8466	674.8466	6.8300e-003	0.0000	675.0173
<b>Total</b>	<b>0.1883</b>	<b>0.1026</b>	<b>1.3948</b>	<b>7.4500e-003</b>	<b>1.1876</b>	<b>3.9200e-003</b>	<b>1.1916</b>	<b>0.3159</b>	<b>3.6000e-003</b>	<b>0.3195</b>	<b>0.0000</b>	<b>674.8466</b>	<b>674.8466</b>	<b>6.8300e-003</b>	<b>0.0000</b>	<b>675.0173</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	8.0451					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0154	0.0989	0.2342	3.9000e-004		1.2900e-003	1.2900e-003		1.2900e-003	1.2900e-003	0.0000	33.3199	33.3199	1.2300e-003	0.0000	33.3507
<b>Total</b>	<b>8.0604</b>	<b>0.0989</b>	<b>0.2342</b>	<b>3.9000e-004</b>		<b>1.2900e-003</b>	<b>1.2900e-003</b>		<b>1.2900e-003</b>	<b>1.2900e-003</b>	<b>0.0000</b>	<b>33.3199</b>	<b>33.3199</b>	<b>1.2300e-003</b>	<b>0.0000</b>	<b>33.3507</b>

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**3.6 Architectural Coating - 2035**

**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	0.1883	0.1026	1.3948	7.4500e-003	1.1876	3.9200e-003	1.1916	0.3159	3.6000e-003	0.3195	0.0000	674.8466	674.8466	6.8300e-003	0.0000	675.0173
<b>Total</b>	<b>0.1883</b>	<b>0.1026</b>	<b>1.3948</b>	<b>7.4500e-003</b>	<b>1.1876</b>	<b>3.9200e-003</b>	<b>1.1916</b>	<b>0.3159</b>	<b>3.6000e-003</b>	<b>0.3195</b>	<b>0.0000</b>	<b>674.8466</b>	<b>674.8466</b>	<b>6.8300e-003</b>	<b>0.0000</b>	<b>675.0173</b>

**3.6 Architectural Coating - 2036**

**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	8.0759					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0154	0.0993	0.2351	3.9000e-004		1.3000e-003	1.3000e-003		1.3000e-003	1.3000e-003	0.0000	33.4476	33.4476	1.2400e-003	0.0000	33.4785
<b>Total</b>	<b>8.0913</b>	<b>0.0993</b>	<b>0.2351</b>	<b>3.9000e-004</b>		<b>1.3000e-003</b>	<b>1.3000e-003</b>		<b>1.3000e-003</b>	<b>1.3000e-003</b>	<b>0.0000</b>	<b>33.4476</b>	<b>33.4476</b>	<b>1.2400e-003</b>	<b>0.0000</b>	<b>33.4785</b>

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**3.6 Architectural Coating - 2036**

**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	0.1890	0.1030	1.4002	7.4700e-003	1.1922	3.9300e-003	1.1961	0.3171	3.6200e-003	0.3208	0.0000	677.4322	677.4322	6.8500e-003	0.0000	677.6036
<b>Total</b>	<b>0.1890</b>	<b>0.1030</b>	<b>1.4002</b>	<b>7.4700e-003</b>	<b>1.1922</b>	<b>3.9300e-003</b>	<b>1.1961</b>	<b>0.3171</b>	<b>3.6200e-003</b>	<b>0.3208</b>	<b>0.0000</b>	<b>677.4322</b>	<b>677.4322</b>	<b>6.8500e-003</b>	<b>0.0000</b>	<b>677.6036</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	8.0759					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0154	0.0993	0.2351	3.9000e-004		1.3000e-003	1.3000e-003		1.3000e-003	1.3000e-003	0.0000	33.4476	33.4476	1.2400e-003	0.0000	33.4785
<b>Total</b>	<b>8.0913</b>	<b>0.0993</b>	<b>0.2351</b>	<b>3.9000e-004</b>		<b>1.3000e-003</b>	<b>1.3000e-003</b>		<b>1.3000e-003</b>	<b>1.3000e-003</b>	<b>0.0000</b>	<b>33.4476</b>	<b>33.4476</b>	<b>1.2400e-003</b>	<b>0.0000</b>	<b>33.4785</b>

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**3.6 Architectural Coating - 2036**

**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	0.1890	0.1030	1.4002	7.4700e-003	1.1922	3.9300e-003	1.1961	0.3171	3.6200e-003	0.3208	0.0000	677.4322	677.4322	6.8500e-003	0.0000	677.6036
<b>Total</b>	<b>0.1890</b>	<b>0.1030</b>	<b>1.4002</b>	<b>7.4700e-003</b>	<b>1.1922</b>	<b>3.9300e-003</b>	<b>1.1961</b>	<b>0.3171</b>	<b>3.6200e-003</b>	<b>0.3208</b>	<b>0.0000</b>	<b>677.4322</b>	<b>677.4322</b>	<b>6.8500e-003</b>	<b>0.0000</b>	<b>677.6036</b>

**3.6 Architectural Coating - 2037**

**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	8.0451					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0154	0.0989	0.2342	3.9000e-004		1.2900e-003	1.2900e-003		1.2900e-003	1.2900e-003	0.0000	33.3200	33.3200	1.2300e-003	0.0000	33.3507
<b>Total</b>	<b>8.0604</b>	<b>0.0989</b>	<b>0.2342</b>	<b>3.9000e-004</b>		<b>1.2900e-003</b>	<b>1.2900e-003</b>		<b>1.2900e-003</b>	<b>1.2900e-003</b>	<b>0.0000</b>	<b>33.3200</b>	<b>33.3200</b>	<b>1.2300e-003</b>	<b>0.0000</b>	<b>33.3507</b>

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**3.6 Architectural Coating - 2037**

**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	0.1883	0.1026	1.3948	7.4500e-003	1.1876	3.9200e-003	1.1916	0.3159	3.6000e-003	0.3195	0.0000	674.8466	674.8466	6.8300e-003	0.0000	675.0173
<b>Total</b>	<b>0.1883</b>	<b>0.1026</b>	<b>1.3948</b>	<b>7.4500e-003</b>	<b>1.1876</b>	<b>3.9200e-003</b>	<b>1.1916</b>	<b>0.3159</b>	<b>3.6000e-003</b>	<b>0.3195</b>	<b>0.0000</b>	<b>674.8466</b>	<b>674.8466</b>	<b>6.8300e-003</b>	<b>0.0000</b>	<b>675.0173</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	8.0451					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0154	0.0989	0.2342	3.9000e-004		1.2900e-003	1.2900e-003		1.2900e-003	1.2900e-003	0.0000	33.3199	33.3199	1.2300e-003	0.0000	33.3507
<b>Total</b>	<b>8.0604</b>	<b>0.0989</b>	<b>0.2342</b>	<b>3.9000e-004</b>		<b>1.2900e-003</b>	<b>1.2900e-003</b>		<b>1.2900e-003</b>	<b>1.2900e-003</b>	<b>0.0000</b>	<b>33.3199</b>	<b>33.3199</b>	<b>1.2300e-003</b>	<b>0.0000</b>	<b>33.3507</b>



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**3.6 Architectural Coating - 2037**

**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	0.1883	0.1026	1.3948	7.4500e-003	1.1876	3.9200e-003	1.1916	0.3159	3.6000e-003	0.3195	0.0000	674.8466	674.8466	6.8300e-003	0.0000	675.0173
<b>Total</b>	<b>0.1883</b>	<b>0.1026</b>	<b>1.3948</b>	<b>7.4500e-003</b>	<b>1.1876</b>	<b>3.9200e-003</b>	<b>1.1916</b>	<b>0.3159</b>	<b>3.6000e-003</b>	<b>0.3195</b>	<b>0.0000</b>	<b>674.8466</b>	<b>674.8466</b>	<b>6.8300e-003</b>	<b>0.0000</b>	<b>675.0173</b>

**3.6 Architectural Coating - 2038**

**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	8.0451					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0154	0.0989	0.2342	3.9000e-004		1.2900e-003	1.2900e-003		1.2900e-003	1.2900e-003	0.0000	33.3200	33.3200	1.2300e-003	0.0000	33.3507
<b>Total</b>	<b>8.0604</b>	<b>0.0989</b>	<b>0.2342</b>	<b>3.9000e-004</b>		<b>1.2900e-003</b>	<b>1.2900e-003</b>		<b>1.2900e-003</b>	<b>1.2900e-003</b>	<b>0.0000</b>	<b>33.3200</b>	<b>33.3200</b>	<b>1.2300e-003</b>	<b>0.0000</b>	<b>33.3507</b>

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**3.6 Architectural Coating - 2038**

**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	0.1883	0.1026	1.3948	7.4500e-003	1.1876	3.9200e-003	1.1916	0.3159	3.6000e-003	0.3195	0.0000	674.8466	674.8466	6.8300e-003	0.0000	675.0173
<b>Total</b>	<b>0.1883</b>	<b>0.1026</b>	<b>1.3948</b>	<b>7.4500e-003</b>	<b>1.1876</b>	<b>3.9200e-003</b>	<b>1.1916</b>	<b>0.3159</b>	<b>3.6000e-003</b>	<b>0.3195</b>	<b>0.0000</b>	<b>674.8466</b>	<b>674.8466</b>	<b>6.8300e-003</b>	<b>0.0000</b>	<b>675.0173</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	8.0451					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0154	0.0989	0.2342	3.9000e-004		1.2900e-003	1.2900e-003		1.2900e-003	1.2900e-003	0.0000	33.3199	33.3199	1.2300e-003	0.0000	33.3507
<b>Total</b>	<b>8.0604</b>	<b>0.0989</b>	<b>0.2342</b>	<b>3.9000e-004</b>		<b>1.2900e-003</b>	<b>1.2900e-003</b>		<b>1.2900e-003</b>	<b>1.2900e-003</b>	<b>0.0000</b>	<b>33.3199</b>	<b>33.3199</b>	<b>1.2300e-003</b>	<b>0.0000</b>	<b>33.3507</b>

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**3.6 Architectural Coating - 2038**

**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	0.1883	0.1026	1.3948	7.4500e-003	1.1876	3.9200e-003	1.1916	0.3159	3.6000e-003	0.3195	0.0000	674.8466	674.8466	6.8300e-003	0.0000	675.0173
<b>Total</b>	<b>0.1883</b>	<b>0.1026</b>	<b>1.3948</b>	<b>7.4500e-003</b>	<b>1.1876</b>	<b>3.9200e-003</b>	<b>1.1916</b>	<b>0.3159</b>	<b>3.6000e-003</b>	<b>0.3195</b>	<b>0.0000</b>	<b>674.8466</b>	<b>674.8466</b>	<b>6.8300e-003</b>	<b>0.0000</b>	<b>675.0173</b>

**3.6 Architectural Coating - 2039**

**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	2.6509					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.0700e-003	0.0326	0.0772	1.3000e-004		4.3000e-004	4.3000e-004		4.3000e-004	4.3000e-004	0.0000	10.9790	10.9790	4.1000e-004	0.0000	10.9891
<b>Total</b>	<b>2.6559</b>	<b>0.0326</b>	<b>0.0772</b>	<b>1.3000e-004</b>		<b>4.3000e-004</b>	<b>4.3000e-004</b>		<b>4.3000e-004</b>	<b>4.3000e-004</b>	<b>0.0000</b>	<b>10.9790</b>	<b>10.9790</b>	<b>4.1000e-004</b>	<b>0.0000</b>	<b>10.9891</b>

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**3.6 Architectural Coating - 2039**

**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	0.0620	0.0338	0.4596	2.4500e-003	0.3913	1.2900e-003	0.3926	0.1041	1.1900e-003	0.1053	0.0000	222.3633	222.3633	2.2500e-003	0.0000	222.4195
<b>Total</b>	<b>0.0620</b>	<b>0.0338</b>	<b>0.4596</b>	<b>2.4500e-003</b>	<b>0.3913</b>	<b>1.2900e-003</b>	<b>0.3926</b>	<b>0.1041</b>	<b>1.1900e-003</b>	<b>0.1053</b>	<b>0.0000</b>	<b>222.3633</b>	<b>222.3633</b>	<b>2.2500e-003</b>	<b>0.0000</b>	<b>222.4195</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	2.6509					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.0700e-003	0.0326	0.0772	1.3000e-004		4.3000e-004	4.3000e-004		4.3000e-004	4.3000e-004	0.0000	10.9790	10.9790	4.1000e-004	0.0000	10.9891
<b>Total</b>	<b>2.6559</b>	<b>0.0326</b>	<b>0.0772</b>	<b>1.3000e-004</b>		<b>4.3000e-004</b>	<b>4.3000e-004</b>		<b>4.3000e-004</b>	<b>4.3000e-004</b>	<b>0.0000</b>	<b>10.9790</b>	<b>10.9790</b>	<b>4.1000e-004</b>	<b>0.0000</b>	<b>10.9891</b>

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**3.6 Architectural Coating - 2039**

**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	0.0620	0.0338	0.4596	2.4500e-003	0.3913	1.2900e-003	0.3926	0.1041	1.1900e-003	0.1053	0.0000	222.3633	222.3633	2.2500e-003	0.0000	222.4195
<b>Total</b>	<b>0.0620</b>	<b>0.0338</b>	<b>0.4596</b>	<b>2.4500e-003</b>	<b>0.3913</b>	<b>1.2900e-003</b>	<b>0.3926</b>	<b>0.1041</b>	<b>1.1900e-003</b>	<b>0.1053</b>	<b>0.0000</b>	<b>222.3633</b>	<b>222.3633</b>	<b>2.2500e-003</b>	<b>0.0000</b>	<b>222.4195</b>

**3.7 Paving - 2038**

**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	0.1158	0.4949	1.6058	2.8500e-003		0.0190	0.0190		0.0190	0.0190	0.0000	244.6101	244.6101	9.4100e-003	0.0000	244.8454
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.1158</b>	<b>0.4949</b>	<b>1.6058</b>	<b>2.8500e-003</b>		<b>0.0190</b>	<b>0.0190</b>		<b>0.0190</b>	<b>0.0190</b>	<b>0.0000</b>	<b>244.6101</b>	<b>244.6101</b>	<b>9.4100e-003</b>	<b>0.0000</b>	<b>244.8454</b>

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**3.7 Paving - 2038**

**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	1.9100e-003	1.0400e-003	0.0141	8.0000e-005	0.0120	4.0000e-005	0.0121	3.2000e-003	4.0000e-005	3.2400e-003	0.0000	6.8403	6.8403	7.0000e-005	0.0000	6.8421
<b>Total</b>	<b>1.9100e-003</b>	<b>1.0400e-003</b>	<b>0.0141</b>	<b>8.0000e-005</b>	<b>0.0120</b>	<b>4.0000e-005</b>	<b>0.0121</b>	<b>3.2000e-003</b>	<b>4.0000e-005</b>	<b>3.2400e-003</b>	<b>0.0000</b>	<b>6.8403</b>	<b>6.8403</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>6.8421</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1158	0.4949	1.6058	2.8500e-003		0.0190	0.0190		0.0190	0.0190	0.0000	244.6098	244.6098	9.4100e-003	0.0000	244.8451
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.1158</b>	<b>0.4949</b>	<b>1.6058</b>	<b>2.8500e-003</b>		<b>0.0190</b>	<b>0.0190</b>		<b>0.0190</b>	<b>0.0190</b>	<b>0.0000</b>	<b>244.6098</b>	<b>244.6098</b>	<b>9.4100e-003</b>	<b>0.0000</b>	<b>244.8451</b>

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**3.7 Paving - 2038**

**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	1.9100e-003	1.0400e-003	0.0141	8.0000e-005	0.0120	4.0000e-005	0.0121	3.2000e-003	4.0000e-005	3.2400e-003	0.0000	6.8403	6.8403	7.0000e-005	0.0000	6.8421
<b>Total</b>	<b>1.9100e-003</b>	<b>1.0400e-003</b>	<b>0.0141</b>	<b>8.0000e-005</b>	<b>0.0120</b>	<b>4.0000e-005</b>	<b>0.0121</b>	<b>3.2000e-003</b>	<b>4.0000e-005</b>	<b>3.2400e-003</b>	<b>0.0000</b>	<b>6.8403</b>	<b>6.8403</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>6.8421</b>

**3.7 Paving - 2039**

**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	0.0490	0.2097	0.6803	1.2100e-003		8.0600e-003	8.0600e-003		8.0600e-003	8.0600e-003	0.0000	103.6279	103.6279	3.9900e-003	0.0000	103.7276
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0490</b>	<b>0.2097</b>	<b>0.6803</b>	<b>1.2100e-003</b>		<b>8.0600e-003</b>	<b>8.0600e-003</b>		<b>8.0600e-003</b>	<b>8.0600e-003</b>	<b>0.0000</b>	<b>103.6279</b>	<b>103.6279</b>	<b>3.9900e-003</b>	<b>0.0000</b>	<b>103.7276</b>

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**3.7 Paving - 2039**

**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	8.1000e-004	4.4000e-004	5.9900e-003	3.0000e-005	5.1000e-003	2.0000e-005	5.1200e-003	1.3600e-003	2.0000e-005	1.3700e-003	0.0000	2.8979	2.8979	3.0000e-005	0.0000	2.8986
<b>Total</b>	<b>8.1000e-004</b>	<b>4.4000e-004</b>	<b>5.9900e-003</b>	<b>3.0000e-005</b>	<b>5.1000e-003</b>	<b>2.0000e-005</b>	<b>5.1200e-003</b>	<b>1.3600e-003</b>	<b>2.0000e-005</b>	<b>1.3700e-003</b>	<b>0.0000</b>	<b>2.8979</b>	<b>2.8979</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>2.8986</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0490	0.2097	0.6803	1.2100e-003		8.0600e-003	8.0600e-003		8.0600e-003	8.0600e-003	0.0000	103.6278	103.6278	3.9900e-003	0.0000	103.7275
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0490</b>	<b>0.2097</b>	<b>0.6803</b>	<b>1.2100e-003</b>		<b>8.0600e-003</b>	<b>8.0600e-003</b>		<b>8.0600e-003</b>	<b>8.0600e-003</b>	<b>0.0000</b>	<b>103.6278</b>	<b>103.6278</b>	<b>3.9900e-003</b>	<b>0.0000</b>	<b>103.7275</b>



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**3.7 Paving - 2039**

**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	8.1000e-004	4.4000e-004	5.9900e-003	3.0000e-005	5.1000e-003	2.0000e-005	5.1200e-003	1.3600e-003	2.0000e-005	1.3700e-003	0.0000	2.8979	2.8979	3.0000e-005	0.0000	2.8986
<b>Total</b>	<b>8.1000e-004</b>	<b>4.4000e-004</b>	<b>5.9900e-003</b>	<b>3.0000e-005</b>	<b>5.1000e-003</b>	<b>2.0000e-005</b>	<b>5.1200e-003</b>	<b>1.3600e-003</b>	<b>2.0000e-005</b>	<b>1.3700e-003</b>	<b>0.0000</b>	<b>2.8979</b>	<b>2.8979</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>2.8986</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

Union City GPU - Alameda County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	4.4635	37.7269	67.2962	0.4736	51.0380	0.1950	51.2329	13.7105	0.1826	13.8931	0.0000	44,053.53 41	44,053.53 41	1.1605	0.0000	44,082.54 69
Unmitigated	4.4635	37.7269	67.2962	0.4736	51.0380	0.1950	51.2329	13.7105	0.1826	13.8931	0.0000	44,053.53 41	44,053.53 41	1.1605	0.0000	44,082.54 69

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	3,886.00	3,886.00	3886.00	20,510,308	20,510,308
General Office Building	7,797.68	7,797.68	7797.68	28,639,007	28,639,007
Manufacturing	1,947.47	1,947.47	1947.47	17,367,493	17,367,493
Single Family Housing	399.60	399.60	399.60	3,556,360	3,556,360
Strip Mall	9.50	9.50	9.50	2,720,814	2,720,814
Supermarket	2,101.92	2,101.92	2101.92	63,656,154	63,656,154
Total	16,142.16	16,142.16	16,142.16	136,450,137	136,450,137

4.3 Trip Type Information

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Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	14.50	14.50	14.50	100.00	0.00	0.00	100	0	0
General Office Building	10.09	10.09	10.09	0.00	100.00	0.00	100	0	0
Manufacturing	24.50	24.50	24.50	0.00	100.00	0.00	100	0	0
Single Family Housing	24.45	24.45	24.45	100.00	0.00	0.00	100	0	0
Strip Mall	786.66	786.66	786.66	0.00	100.00	0.00	100	0	0
Supermarket	83.20	83.20	83.20	0.00	100.00	0.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.564354	0.034948	0.188156	0.101714	0.011079	0.005040	0.028641	0.055840	0.002376	0.001564	0.005216	0.000439	0.000633
General Office Building	0.564354	0.034948	0.188156	0.101714	0.011079	0.005040	0.028641	0.055840	0.002376	0.001564	0.005216	0.000439	0.000633
Manufacturing	0.564354	0.034948	0.188156	0.101714	0.011079	0.005040	0.028641	0.055840	0.002376	0.001564	0.005216	0.000439	0.000633
Single Family Housing	0.564354	0.034948	0.188156	0.101714	0.011079	0.005040	0.028641	0.055840	0.002376	0.001564	0.005216	0.000439	0.000633
Strip Mall	0.564354	0.034948	0.188156	0.101714	0.011079	0.005040	0.028641	0.055840	0.002376	0.001564	0.005216	0.000439	0.000633
Supermarket	0.564354	0.034948	0.188156	0.101714	0.011079	0.005040	0.028641	0.055840	0.002376	0.001564	0.005216	0.000439	0.000633

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Union City GPU - Alameda County, Annual

	ROG	NOx	CO	SO2	Fugitive 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	39,100.5931	39,100.5931	1.7680	0.3658	39,253.8009
Electricity Unmitigated							0.0000	0.0000		0.0000	0.0000	39,100.5931	39,100.5931	1.7680	0.3658	39,253.8009
NaturalGas Mitigated	1.2150	10.8902	8.1409	0.0663			0.8394	0.8394		0.8394	0.0000	12,024.0436	12,024.0436	0.2305	0.2204	12,095.4965
NaturalGas Unmitigated	1.2150	10.8902	8.1409	0.0663			0.8394	0.8394		0.8394	0.0000	12,024.0436	12,024.0436	0.2305	0.2204	12,095.4965

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**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	3.39265e+007	0.1829	1.5633	0.6652	9.9800e-003		0.1264	0.1264		0.1264	0.1264	0.0000	1,810.4446	1,810.4446	0.0347	0.0332	1,821.2032
General Office Building	7.53646e+007	0.4064	3.6943	3.1033	0.0222		0.2808	0.2808		0.2808	0.2808	0.0000	4,021.7398	4,021.7398	0.0771	0.0737	4,045.6390
Manufacturing	5.35553e+007	0.2888	2.6253	2.2052	0.0158		0.1995	0.1995		0.1995	0.1995	0.0000	2,857.9154	2,857.9154	0.0548	0.0524	2,874.8986
Single Family Housing	1.87917e+007	0.1013	0.8659	0.3685	5.5300e-003		0.0700	0.0700		0.0700	0.0700	0.0000	1,002.7993	1,002.7993	0.0192	0.0184	1,008.7585
Strip Mall	4.37086e+006	0.0236	0.2143	0.1800	1.2900e-003		0.0163	0.0163		0.0163	0.0163	0.0000	233.2455	233.2455	4.4700e-003	4.2800e-003	234.6316
Supermarket	3.93131e+007	0.2120	1.9271	1.6188	0.0116		0.1465	0.1465		0.1465	0.1465	0.0000	2,097.8989	2,097.8989	0.0402	0.0385	2,110.3657
<b>Total</b>		<b>1.2150</b>	<b>10.8901</b>	<b>8.1409</b>	<b>0.0663</b>		<b>0.8394</b>	<b>0.8394</b>		<b>0.8394</b>	<b>0.8394</b>	<b>0.0000</b>	<b>12,024.0436</b>	<b>12,024.0436</b>	<b>0.2305</b>	<b>0.2204</b>	<b>12,095.4965</b>

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**5.2 Energy by Land Use - NaturalGas**

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	3.39265e+007	0.1829	1.5633	0.6652	9.9800e-003		0.1264	0.1264		0.1264	0.1264	0.0000	1,810.4446	1,810.4446	0.0347	0.0332	1,821.2032
General Office Building	7.53646e+007	0.4064	3.6943	3.1033	0.0222		0.2808	0.2808		0.2808	0.2808	0.0000	4,021.7398	4,021.7398	0.0771	0.0737	4,045.6390
Manufacturing	5.35553e+007	0.2888	2.6253	2.2052	0.0158		0.1995	0.1995		0.1995	0.1995	0.0000	2,857.9154	2,857.9154	0.0548	0.0524	2,874.8986
Single Family Housing	1.87917e+007	0.1013	0.8659	0.3685	5.5300e-003		0.0700	0.0700		0.0700	0.0700	0.0000	1,002.7993	1,002.7993	0.0192	0.0184	1,008.7585
Strip Mall	4.37086e+006	0.0236	0.2143	0.1800	1.2900e-003		0.0163	0.0163		0.0163	0.0163	0.0000	233.2455	233.2455	4.4700e-003	4.2800e-003	234.6316
Supermarket	3.93131e+007	0.2120	1.9271	1.6188	0.0116		0.1465	0.1465		0.1465	0.1465	0.0000	2,097.8989	2,097.8989	0.0402	0.0385	2,110.3657
<b>Total</b>		<b>1.2150</b>	<b>10.8901</b>	<b>8.1409</b>	<b>0.0663</b>		<b>0.8394</b>	<b>0.8394</b>		<b>0.8394</b>	<b>0.8394</b>	<b>0.0000</b>	<b>12,024.0436</b>	<b>12,024.0436</b>	<b>0.2305</b>	<b>0.2204</b>	<b>12,095.4965</b>

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**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	1.64067e+007	4,772.8835	0.2158	0.0447	4,791.5851
General Office Building	4.86575e+007	14,155.0278	0.6401	0.1324	14,210.4914
Manufacturing	1.63587e+007	4,758.9374	0.2152	0.0445	4,777.5843
Single Family Housing	3.54423e+006	1,031.0559	0.0466	9.6500e-003	1,035.0958
Strip Mall	9.95795e+006	2,896.8816	0.1310	0.0271	2,908.2325
Supermarket	3.94821e+007	11,485.8070	0.5194	0.1075	11,530.8118
<b>Total</b>		<b>39,100.5931</b>	<b>1.7680</b>	<b>0.3658</b>	<b>39,253.8009</b>

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**5.3 Energy by Land Use - Electricity****Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	1.64067e+007	4,772.8835	0.2158	0.0447	4,791.5851
General Office Building	4.86575e+007	14,155.0278	0.6401	0.1324	14,210.4914
Manufacturing	1.63587e+007	4,758.9374	0.2152	0.0445	4,777.5843
Single Family Housing	3.54423e+006	1,031.0559	0.0466	9.6500e-003	1,035.0958
Strip Mall	9.95795e+006	2,896.8816	0.1310	0.0271	2,908.2325
Supermarket	3.94821e+007	11,485.8070	0.5194	0.1075	11,530.8118
<b>Total</b>		<b>39,100.5931</b>	<b>1.7680</b>	<b>0.3658</b>	<b>39,253.8009</b>

**6.0 Area Detail****6.1 Mitigation Measures Area**



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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	69.8649	0.6338	48.2350	0.0341		2.4925	2.4925		2.4925	2.4925	233.5989	139.2879	372.8867	0.4417	0.0148	388.3534
Unmitigated	69.8649	0.6338	48.2350	0.0341		2.4925	2.4925		2.4925	2.4925	233.5989	139.2879	372.8867	0.4417	0.0148	388.3534

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	7.5056					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	49.8120					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	11.5831	0.2637	16.1518	0.0324		2.3139	2.3139		2.3139	2.3139	233.5989	86.6260	320.2249	0.3914	0.0148	334.4325
Landscaping	0.9641	0.3701	32.0832	1.7000e-003		0.1786	0.1786		0.1786	0.1786	0.0000	52.6619	52.6619	0.0504	0.0000	53.9209
<b>Total</b>	<b>69.8649</b>	<b>0.6338</b>	<b>48.2350</b>	<b>0.0341</b>		<b>2.4925</b>	<b>2.4925</b>		<b>2.4925</b>	<b>2.4925</b>	<b>233.5989</b>	<b>139.2879</b>	<b>372.8867</b>	<b>0.4417</b>	<b>0.0148</b>	<b>388.3534</b>

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**6.2 Area by SubCategory**

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	7.5056					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	49.8120					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	11.5831	0.2637	16.1518	0.0324		2.3139	2.3139		2.3139	2.3139	233.5989	86.6260	320.2249	0.3914	0.0148	334.4325
Landscaping	0.9641	0.3701	32.0832	1.7000e-003		0.1786	0.1786		0.1786	0.1786	0.0000	52.6619	52.6619	0.0504	0.0000	53.9209
<b>Total</b>	<b>69.8649</b>	<b>0.6338</b>	<b>48.2350</b>	<b>0.0341</b>		<b>2.4925</b>	<b>2.4925</b>		<b>2.4925</b>	<b>2.4925</b>	<b>233.5989</b>	<b>139.2879</b>	<b>372.8867</b>	<b>0.4417</b>	<b>0.0148</b>	<b>388.3534</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

Use Water Efficient Irrigation System

Union City GPU - Alameda County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	3,500.8110	54.7483	1.3173	5,262.082 1
Unmitigated	3,831.588 3	54.7632	1.3204	5,594.155 4

Union City GPU - Alameda County, Annual

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	253.189 / 159.619	641.3970	8.2755	0.2001	907.9009
General Office Building	692.955 / 424.715	1,743.0794	22.6488	0.5474	2,472.4292
Manufacturing	500.39 / 0	946.4261	16.3408	0.3924	1,471.8736
Single Family Housing	28.9284 / 18.2375	73.2837	0.9455	0.0229	103.7334
Strip Mall	70.383 / 43.1379	177.0433	2.3004	0.0556	251.1228
Supermarket	130.201 / 4.02683	250.3588	4.2521	0.1021	387.0955
<b>Total</b>		<b>3,831.5883</b>	<b>54.7632</b>	<b>1.3204</b>	<b>5,594.1554</b>

Union City GPU - Alameda County, Annual

**7.2 Water by Land Use**

**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	253.189 / 79.8094	560.1359	8.2719	0.1993	826.3213
General Office Building	692.955 / 212.357	1,526.8593	22.6391	0.5454	2,255.3619
Manufacturing	500.39 / 0	946.4261	16.3408	0.3924	1,471.8736
Single Family Housing	28.9284 / 9.11873	63.9991	0.9451	0.0228	94.4124
Strip Mall	70.383 / 21.569	155.0820	2.2994	0.0554	229.0754
Supermarket	130.201 / 2.01341	248.3087	4.2520	0.1021	385.0374
<b>Total</b>		<b>3,500.8110</b>	<b>54.7483</b>	<b>1.3173</b>	<b>5,262.0821</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

Institute Recycling and Composting Services

Union City GPU - Alameda County, Annual

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	632.7204	37.3927	0.0000	1,567.5380
Unmitigated	3,163.6020	186.9635	0.0000	7,837.6900

Union City GPU - Alameda County, Annual

**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	1787.56	362.8585	21.4443	0.0000	898.9666
General Office Building	3625.92	736.0290	43.4981	0.0000	1,823.4807
Manufacturing	2683.17	544.6593	32.1884	0.0000	1,349.3703
Single Family Housing	533.4	108.2754	6.3989	0.0000	268.2477
Strip Mall	997.7	202.5241	11.9688	0.0000	501.7449
Supermarket	5957.19	1,209.2557	71.4650	0.0000	2,995.8799
<b>Total</b>		<b>3,163.6020</b>	<b>186.9635</b>	<b>0.0000</b>	<b>7,837.6900</b>

Union City GPU - Alameda County, Annual

**8.2 Waste by Land Use**

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	357.512	72.5717	4.2889	0.0000	179.7933
General Office Building	725.184	147.2058	8.6996	0.0000	364.6961
Manufacturing	536.634	108.9319	6.4377	0.0000	269.8741
Single Family Housing	106.68	21.6551	1.2798	0.0000	53.6495
Strip Mall	199.54	40.5048	2.3938	0.0000	100.3490
Supermarket	1191.44	241.8512	14.2930	0.0000	599.1760
<b>Total</b>		<b>632.7204</b>	<b>37.3927</b>	<b>0.0000</b>	<b>1,567.5380</b>

**9.0 Operational Offroad**

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

**Fire Pumps and Emergency Generators**

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



Union City GPU - Alameda County, Annual

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

Equipment Type	Number
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**11.0 Vegetation**

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## Union City GPU - Alameda County, Winter

**Union City GPU**  
**Alameda County, Winter**

**1.0 Project Characteristics****1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	3,898.84	1000sqft	89.51	3,898,839.00	0
Manufacturing	2,163.85	1000sqft	49.68	2,163,851.00	0
Apartments Mid Rise	3,886.00	Dwelling Unit	102.26	3,886,000.00	11114
Single Family Housing	444.00	Dwelling Unit	144.16	799,200.00	1270
Strip Mall	950.19	1000sqft	21.81	950,186.00	0
Supermarket	1,056.24	1000sqft	24.25	1,056,237.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	63
<b>Climate Zone</b>	5			<b>Operational Year</b>	2040
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	641.35	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

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

Union City GPU - Alameda County, Winter

Project Characteristics -

Land Use - Retail and Service land uses are included together under Retail, Strip Mall category.

Construction Phase - Construction schedule adjusted to be complete in 2040.

Vehicle Trips - Trip generation rate factors adjusted to reflect Daily & Annual VMT provided in Transportation Impact Analysis (Mintier Harnish 2018).

Construction Off-road Equipment Mitigation - Applied relevant factors for compliance with "BAAQMD Basic Construction Mitigation Measures."

Mobile Land Use Mitigation -

Water Mitigation - CAP Measure WC-1.1

Waste Mitigation - CAP Measure WR-1.1, adjusted for AB 939

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	500.00	263.00
tblConstructionPhase	NumDays	300.00	158.00
tblConstructionPhase	NumDays	775.00	407.00
tblConstructionPhase	NumDays	7,750.00	4,069.00
tblConstructionPhase	NumDays	550.00	2,435.00
tblConstructionPhase	NumDays	550.00	289.00
tblGrading	AcresOfGrading	1,017.50	1,937.50
tblLandUse	LandUseSquareFeet	3,898,840.00	3,898,839.00
tblLandUse	LandUseSquareFeet	2,163,850.00	2,163,851.00
tblLandUse	LandUseSquareFeet	950,190.00	950,186.00
tblLandUse	LandUseSquareFeet	1,056,240.00	1,056,237.00
tblVehicleTrips	CC_TL	7.30	10.09
tblVehicleTrips	CC_TL	7.30	24.50
tblVehicleTrips	CC_TL	7.30	786.66
tblVehicleTrips	CC_TL	7.30	83.20
tblVehicleTrips	CC_TTP	48.00	100.00

## Union City GPU - Alameda County, Winter

tblVehicleTrips	CC_TTP	28.00	100.00
tblVehicleTrips	CC_TTP	64.40	100.00
tblVehicleTrips	CC_TTP	74.50	100.00
tblVehicleTrips	CNW_TL	7.30	10.09
tblVehicleTrips	CNW_TL	7.30	24.50
tblVehicleTrips	CNW_TL	7.30	786.66
tblVehicleTrips	CNW_TL	7.30	83.20
tblVehicleTrips	CNW_TTP	19.00	0.00
tblVehicleTrips	CNW_TTP	13.00	0.00
tblVehicleTrips	CNW_TTP	19.00	0.00
tblVehicleTrips	CNW_TTP	19.00	0.00
tblVehicleTrips	CW_TL	9.50	10.09
tblVehicleTrips	CW_TL	9.50	24.50
tblVehicleTrips	CW_TL	9.50	786.66
tblVehicleTrips	CW_TL	9.50	83.20
tblVehicleTrips	CW_TTP	33.00	0.00
tblVehicleTrips	CW_TTP	59.00	0.00
tblVehicleTrips	CW_TTP	16.60	0.00
tblVehicleTrips	CW_TTP	6.50	0.00
tblVehicleTrips	DV_TP	11.00	0.00
tblVehicleTrips	DV_TP	19.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	DV_TP	11.00	0.00
tblVehicleTrips	DV_TP	40.00	0.00
tblVehicleTrips	DV_TP	30.00	0.00
tblVehicleTrips	HO_TL	5.70	14.50
tblVehicleTrips	HO_TL	5.70	24.45

## Union City GPU - Alameda County, Winter

tblVehicleTrips	HO_TTP	54.00	0.00
tblVehicleTrips	HO_TTP	54.00	0.00
tblVehicleTrips	HS_TL	4.80	14.50
tblVehicleTrips	HS_TL	4.80	24.45
tblVehicleTrips	HS_TTP	15.00	0.00
tblVehicleTrips	HS_TTP	15.00	0.00
tblVehicleTrips	HW_TL	10.80	14.50
tblVehicleTrips	HW_TL	10.80	24.45
tblVehicleTrips	HW_TTP	31.00	100.00
tblVehicleTrips	HW_TTP	31.00	100.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	4.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	15.00	0.00
tblVehicleTrips	PB_TP	36.00	0.00
tblVehicleTrips	PR_TP	86.00	100.00
tblVehicleTrips	PR_TP	77.00	100.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	PR_TP	86.00	100.00
tblVehicleTrips	PR_TP	45.00	100.00
tblVehicleTrips	PR_TP	34.00	100.00
tblVehicleTrips	ST_TR	6.39	1.00
tblVehicleTrips	ST_TR	2.46	2.00
tblVehicleTrips	ST_TR	1.49	0.90
tblVehicleTrips	ST_TR	9.91	0.90
tblVehicleTrips	ST_TR	42.04	0.01

Union City GPU - Alameda County, Winter

tblVehicleTrips	ST_TR	177.59	1.99
tblVehicleTrips	SU_TR	5.86	1.00
tblVehicleTrips	SU_TR	1.05	2.00
tblVehicleTrips	SU_TR	0.62	0.90
tblVehicleTrips	SU_TR	8.62	0.90
tblVehicleTrips	SU_TR	20.43	0.01
tblVehicleTrips	SU_TR	166.44	1.99
tblVehicleTrips	WD_TR	6.65	1.00
tblVehicleTrips	WD_TR	11.03	2.00
tblVehicleTrips	WD_TR	3.82	0.90
tblVehicleTrips	WD_TR	9.52	0.90
tblVehicleTrips	WD_TR	44.32	0.01
tblVehicleTrips	WD_TR	102.24	1.99
tblWaterMitigation	UseWaterEfficientIrrigationSystemPercentReduction	6.1	50

## 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					
2019	3.5760	35.8305	22.5111	0.0400	0.1232	1.7958	1.9190	0.0327	1.6704	1.7031	0.0000	3,935.8870	3,935.8870	1.0653	0.0000	3,962.5187
2020	4.1452	42.4677	22.1572	0.0400	18.2141	2.1984	20.4125	9.9699	2.0225	11.9924	0.0000	3,863.0112	3,863.0112	1.1955	0.0000	3,889.5351

Union City GPU - Alameda County, Winter

	ROG	NOx	CO	SO2	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	4.2617	46.4498	31.3686	0.0635	18.2141	2.0454	20.2595	9.9699	1.8818	11.8517	0.0000	6,155.4518	6,155.4518	1.9464	0.0000	6,204.1113
2022	25.8952	209.3221	186.3027	0.9153	59.3794	1.6359	60.8372	16.0246	1.5051	17.3958	0.0000	93,923.4501	93,923.4501	4.3893	0.0000	94,033.1824
2023	23.0634	165.8941	169.6115	0.8857	59.3797	1.1423	60.5220	16.0247	1.0714	17.0961	0.0000	90,930.4701	90,930.4701	3.7026	0.0000	91,023.0341
2024	21.7421	162.8019	158.8354	0.8666	59.3800	1.0477	60.4277	16.0248	0.9821	17.0069	0.0000	89,031.3741	89,031.3741	3.5864	0.0000	89,121.0348
2025	20.5943	159.7406	149.1995	0.8479	59.3803	0.9551	60.3354	16.0249	0.8951	16.9200	0.0000	87,167.9546	87,167.9546	3.4798	0.0000	87,254.9507
2026	19.7080	157.8305	141.1732	0.8314	59.3805	0.9447	60.3252	16.0250	0.8853	16.9103	0.0000	85,531.7684	85,531.7684	3.3900	0.0000	85,616.5178
2027	18.8647	155.9552	134.1085	0.8167	59.3808	0.9282	60.3090	16.0251	0.8700	16.8951	0.0000	84,070.1040	84,070.1040	3.3120	0.0000	84,152.9030
2028	17.9883	154.4566	127.9287	0.8039	59.3810	0.9080	60.2890	16.0251	0.8513	16.8765	0.0000	82,797.7366	82,797.7366	3.2396	0.0000	82,878.7260
2029	17.0711	152.5860	122.0207	0.7920	59.3812	0.8890	60.2702	16.0252	0.8337	16.8590	0.0000	81,608.7040	81,608.7040	3.1826	0.0000	81,688.2686
2030	80.2038	148.7408	133.0606	0.8510	68.8366	0.5545	69.3911	18.5332	0.5285	19.0617	0.0000	87,430.0000	87,430.0000	2.7394	0.0000	87,498.4858
2031	79.1019	147.4990	127.3348	0.8409	68.8367	0.5363	69.3731	18.5333	0.5117	19.0450	0.0000	86,423.1641	86,423.1641	2.6838	0.0000	86,490.2586
2032	78.1544	146.4680	122.4229	0.8323	68.8369	0.5197	69.3566	18.5333	0.4964	19.0297	0.0000	85,572.6390	85,572.6390	2.6373	0.0000	85,638.5712
2033	77.3564	145.5893	118.2060	0.8250	68.8370	0.5048	69.3418	18.5334	0.4825	19.0159	0.0000	84,847.3553	84,847.3553	2.5996	0.0000	84,912.3461
2034	76.6698	144.8283	114.2405	0.8188	68.8371	0.4907	69.3278	18.5334	0.4695	19.0030	0.0000	84,231.6786	84,231.6786	2.5659	0.0000	84,295.8253
2035	75.9657	143.3060	110.7757	0.8136	68.8372	0.4097	69.2469	18.5335	0.3896	18.9231	0.0000	83,712.4485	83,712.4485	2.5281	0.0000	83,775.6513
2036	75.9657	143.3060	110.7757	0.8136	68.8372	0.4097	69.2469	18.5335	0.3896	18.9231	0.0000	83,712.4485	83,712.4485	2.5281	0.0000	83,775.6513
2037	75.9657	143.3060	110.7757	0.8136	68.8372	0.4097	69.2469	18.5335	0.3896	18.9231	0.0000	83,712.4485	83,712.4485	2.5281	0.0000	83,775.6513
2038	75.9657	143.3060	110.7757	0.8136	68.8372	0.4097	69.2469	18.5335	0.3896	18.9231	0.0000	83,712.4485	83,712.4485	2.5281	0.0000	83,775.6513

Union City GPU - Alameda County, Winter

	ROG	NOx	CO	SO2	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					
2039	64.5530	6.5076	28.6019	0.0884	9.5784	0.2277	9.8061	2.5406	0.2253	2.7659	0.0000	8,667.1079	8,667.1079	0.1704	0.0000	8,671.3669
<b>Maximum</b>	<b>80.2038</b>	<b>209.3221</b>	<b>186.3027</b>	<b>0.9153</b>	<b>68.8372</b>	<b>2.1984</b>	<b>69.3911</b>	<b>18.5335</b>	<b>2.0225</b>	<b>19.0617</b>	<b>0.0000</b>	<b>93,923.4501</b>	<b>93,923.4501</b>	<b>4.3893</b>	<b>0.0000</b>	<b>94,033.1824</b>

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

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					
2019	3.5760	35.8305	22.5111	0.0400	0.1232	1.7958	1.9190	0.0327	1.6704	1.7031	0.0000	3,935.8870	3,935.8870	1.0653	0.0000	3,962.5187
2020	4.1452	42.4677	22.1572	0.0400	8.2777	2.1984	10.4761	4.5080	2.0225	6.5306	0.0000	3,863.0112	3,863.0112	1.1955	0.0000	3,889.5351
2021	4.2617	46.4498	31.3686	0.0635	8.2777	2.0454	10.3231	4.5080	1.8818	6.3898	0.0000	6,155.4518	6,155.4518	1.9464	0.0000	6,204.1113
2022	25.8952	209.3221	186.3027	0.9153	59.3794	1.6359	60.8372	16.0246	1.5051	17.3958	0.0000	93,923.4501	93,923.4501	4.3893	0.0000	94,033.1824
2023	23.0634	165.8941	169.6115	0.8857	59.3797	1.1423	60.5220	16.0247	1.0714	17.0961	0.0000	90,930.4701	90,930.4701	3.7026	0.0000	91,023.0341
2024	21.7421	162.8019	158.8354	0.8666	59.3800	1.0477	60.4277	16.0248	0.9821	17.0069	0.0000	89,031.3741	89,031.3741	3.5864	0.0000	89,121.0348
2025	20.5943	159.7406	149.1995	0.8479	59.3803	0.9551	60.3354	16.0249	0.8951	16.9200	0.0000	87,167.9546	87,167.9546	3.4798	0.0000	87,254.9507
2026	19.7080	157.8305	141.1732	0.8314	59.3805	0.9447	60.3252	16.0250	0.8853	16.9103	0.0000	85,531.7684	85,531.7684	3.3900	0.0000	85,616.5178
2027	18.8647	155.9552	134.1085	0.8167	59.3808	0.9282	60.3090	16.0251	0.8700	16.8951	0.0000	84,070.1040	84,070.1040	3.3120	0.0000	84,152.9030
2028	17.9883	154.4566	127.9287	0.8039	59.3810	0.9080	60.2890	16.0251	0.8513	16.8765	0.0000	82,797.7366	82,797.7366	3.2396	0.0000	82,878.7260





Union City GPU - Alameda County, Winter

**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	2,383.063 2	48.3030	3,063.048 9	5.2076		385.8880	385.8880		385.8880	385.8880	41,577.09 08	17,788.40 92	59,365.50 00	56.3186	2.9377	61,648.90 20
Energy	6.6574	59.6720	44.6077	0.3631		4.5996	4.5996		4.5996	4.5996		72,625.96 85	72,625.96 85	1.3920	1.3315	73,057.54 83
Mobile	24.5643	210.3240	377.9939	2.5869	291.1213	1.0732	292.1945	77.9573	1.0050	78.9623		265,226.6 131	265,226.6 131	7.1810		265,406.1 386
<b>Total</b>	<b>2,414.284 9</b>	<b>318.2990</b>	<b>3,485.650 5</b>	<b>8.1576</b>	<b>291.1213</b>	<b>391.5608</b>	<b>682.6821</b>	<b>77.9573</b>	<b>391.4926</b>	<b>469.4499</b>	<b>41,577.09 08</b>	<b>355,640.9 907</b>	<b>397,218.0 815</b>	<b>64.8916</b>	<b>4.2692</b>	<b>400,112.5 889</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	2,383.063 2	48.3030	3,063.048 9	5.2076		385.8880	385.8880		385.8880	385.8880	41,577.09 08	17,788.40 92	59,365.50 00	56.3186	2.9377	61,648.90 20
Energy	6.6574	59.6720	44.6077	0.3631		4.5996	4.5996		4.5996	4.5996		72,625.96 85	72,625.96 85	1.3920	1.3315	73,057.54 83
Mobile	24.5643	210.3240	377.9939	2.5869	291.1213	1.0732	292.1945	77.9573	1.0050	78.9623		265,226.6 131	265,226.6 131	7.1810		265,406.1 386
<b>Total</b>	<b>2,414.284 9</b>	<b>318.2990</b>	<b>3,485.650 5</b>	<b>8.1576</b>	<b>291.1213</b>	<b>391.5608</b>	<b>682.6821</b>	<b>77.9573</b>	<b>391.4926</b>	<b>469.4499</b>	<b>41,577.09 08</b>	<b>355,640.9 907</b>	<b>397,218.0 815</b>	<b>64.8916</b>	<b>4.2692</b>	<b>400,112.5 889</b>

Union City GPU - Alameda County, Winter

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

### 3.0 Construction Detail

#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	6/17/2019	6/17/2020	5	263	
2	Site Preparation	Site Preparation	6/18/2020	1/25/2021	5	158	
3	Grading	Grading	1/26/2021	8/17/2022	5	407	
4	Building Construction	Building Construction	8/18/2022	3/23/2038	5	4069	
5	Architectural Coating	Architectural Coating	1/1/2030	5/2/2039	5	2435	
6	Paving	Paving	3/24/2038	5/2/2039	5	289	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 1937.5

Acres of Paving: 0

Residential Indoor: 9,487,530; Residential Outdoor: 3,162,510; Non-Residential Indoor: 12,103,670; Non-Residential Outdoor: 4,034,557; Striped Parking Area: 0 (Architectural Coating – sqft)

#### OffRoad Equipment

## Union City GPU - Alameda County, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	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
Architectural Coating	Air Compressors	1	6.00	78	0.48
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

Trips and VMT

Union City GPU - Alameda County, Winter

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	5,756.00	1,785.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	1,151.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Water Exposed Area

**3.2 Demolition - 2019**

**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	3.5134	35.7830	22.0600	0.0388		1.7949	1.7949		1.6697	1.6697		3,816.8994	3,816.8994	1.0618		3,843.4451
<b>Total</b>	<b>3.5134</b>	<b>35.7830</b>	<b>22.0600</b>	<b>0.0388</b>		<b>1.7949</b>	<b>1.7949</b>		<b>1.6697</b>	<b>1.6697</b>		<b>3,816.8994</b>	<b>3,816.8994</b>	<b>1.0618</b>		<b>3,843.4451</b>

Union City GPU - Alameda County, Winter

**3.2 Demolition - 2019**

**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	0.0627	0.0475	0.4511	1.2000e-003	0.1232	8.4000e-004	0.1241	0.0327	7.8000e-004	0.0335		118.9877	118.9877	3.4400e-003		119.0737
<b>Total</b>	<b>0.0627</b>	<b>0.0475</b>	<b>0.4511</b>	<b>1.2000e-003</b>	<b>0.1232</b>	<b>8.4000e-004</b>	<b>0.1241</b>	<b>0.0327</b>	<b>7.8000e-004</b>	<b>0.0335</b>		<b>118.9877</b>	<b>118.9877</b>	<b>3.4400e-003</b>		<b>119.0737</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.5134	35.7830	22.0600	0.0388		1.7949	1.7949		1.6697	1.6697	0.0000	3,816.8994	3,816.8994	1.0618		3,843.4451
<b>Total</b>	<b>3.5134</b>	<b>35.7830</b>	<b>22.0600</b>	<b>0.0388</b>		<b>1.7949</b>	<b>1.7949</b>		<b>1.6697</b>	<b>1.6697</b>	<b>0.0000</b>	<b>3,816.8994</b>	<b>3,816.8994</b>	<b>1.0618</b>		<b>3,843.4451</b>

Union City GPU - Alameda County, Winter

**3.2 Demolition - 2019**

**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	0.0627	0.0475	0.4511	1.2000e-003	0.1232	8.4000e-004	0.1241	0.0327	7.8000e-004	0.0335		118.9877	118.9877	3.4400e-003		119.0737
<b>Total</b>	<b>0.0627</b>	<b>0.0475</b>	<b>0.4511</b>	<b>1.2000e-003</b>	<b>0.1232</b>	<b>8.4000e-004</b>	<b>0.1241</b>	<b>0.0327</b>	<b>7.8000e-004</b>	<b>0.0335</b>		<b>118.9877</b>	<b>118.9877</b>	<b>3.4400e-003</b>		<b>119.0737</b>

**3.2 Demolition - 2020**

**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	3.3121	33.2010	21.7532	0.0388		1.6587	1.6587		1.5419	1.5419		3,747.7049	3,747.7049	1.0580		3,774.1536
<b>Total</b>	<b>3.3121</b>	<b>33.2010</b>	<b>21.7532</b>	<b>0.0388</b>		<b>1.6587</b>	<b>1.6587</b>		<b>1.5419</b>	<b>1.5419</b>		<b>3,747.7049</b>	<b>3,747.7049</b>	<b>1.0580</b>		<b>3,774.1536</b>

Union City GPU - Alameda County, Winter

**3.2 Demolition - 2020**

**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	0.0572	0.0420	0.4040	1.1600e-003	0.1232	8.2000e-004	0.1240	0.0327	7.6000e-004	0.0334		115.3063	115.3063	3.0100e-003		115.3815
<b>Total</b>	<b>0.0572</b>	<b>0.0420</b>	<b>0.4040</b>	<b>1.1600e-003</b>	<b>0.1232</b>	<b>8.2000e-004</b>	<b>0.1240</b>	<b>0.0327</b>	<b>7.6000e-004</b>	<b>0.0334</b>		<b>115.3063</b>	<b>115.3063</b>	<b>3.0100e-003</b>		<b>115.3815</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.3121	33.2010	21.7532	0.0388		1.6587	1.6587		1.5419	1.5419	0.0000	3,747.7049	3,747.7049	1.0580		3,774.1536
<b>Total</b>	<b>3.3121</b>	<b>33.2010</b>	<b>21.7532</b>	<b>0.0388</b>		<b>1.6587</b>	<b>1.6587</b>		<b>1.5419</b>	<b>1.5419</b>	<b>0.0000</b>	<b>3,747.7049</b>	<b>3,747.7049</b>	<b>1.0580</b>		<b>3,774.1536</b>



Union City GPU - Alameda County, Winter

**3.2 Demolition - 2020**

**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	0.0572	0.0420	0.4040	1.1600e-003	0.1232	8.2000e-004	0.1240	0.0327	7.6000e-004	0.0334		115.3063	115.3063	3.0100e-003		115.3815
<b>Total</b>	<b>0.0572</b>	<b>0.0420</b>	<b>0.4040</b>	<b>1.1600e-003</b>	<b>0.1232</b>	<b>8.2000e-004</b>	<b>0.1240</b>	<b>0.0327</b>	<b>7.6000e-004</b>	<b>0.0334</b>		<b>115.3063</b>	<b>115.3063</b>	<b>3.0100e-003</b>		<b>115.3815</b>

**3.3 Site Preparation - 2020**

**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	4.0765	42.4173	21.5136	0.0380		2.1974	2.1974		2.0216	2.0216		3,685.1016	3,685.1016	1.1918		3,714.8975
<b>Total</b>	<b>4.0765</b>	<b>42.4173</b>	<b>21.5136</b>	<b>0.0380</b>	<b>18.0663</b>	<b>2.1974</b>	<b>20.2637</b>	<b>9.9307</b>	<b>2.0216</b>	<b>11.9523</b>		<b>3,685.1016</b>	<b>3,685.1016</b>	<b>1.1918</b>		<b>3,714.8975</b>

Union City GPU - Alameda County, Winter

**3.3 Site Preparation - 2020**

**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	0.0687	0.0504	0.4849	1.3900e-003	0.1479	9.9000e-004	0.1489	0.0392	9.1000e-004	0.0401		138.3675	138.3675	3.6100e-003		138.4578
<b>Total</b>	<b>0.0687</b>	<b>0.0504</b>	<b>0.4849</b>	<b>1.3900e-003</b>	<b>0.1479</b>	<b>9.9000e-004</b>	<b>0.1489</b>	<b>0.0392</b>	<b>9.1000e-004</b>	<b>0.0401</b>		<b>138.3675</b>	<b>138.3675</b>	<b>3.6100e-003</b>		<b>138.4578</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.1298	0.0000	8.1298	4.4688	0.0000	4.4688			0.0000			0.0000
Off-Road	4.0765	42.4173	21.5136	0.0380		2.1974	2.1974		2.0216	2.0216	0.0000	3,685.1016	3,685.1016	1.1918		3,714.8975
<b>Total</b>	<b>4.0765</b>	<b>42.4173</b>	<b>21.5136</b>	<b>0.0380</b>	<b>8.1298</b>	<b>2.1974</b>	<b>10.3272</b>	<b>4.4688</b>	<b>2.0216</b>	<b>6.4904</b>	<b>0.0000</b>	<b>3,685.1016</b>	<b>3,685.1016</b>	<b>1.1918</b>		<b>3,714.8975</b>

Union City GPU - Alameda County, Winter

**3.3 Site Preparation - 2020**

**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	0.0687	0.0504	0.4849	1.3900e-003	0.1479	9.9000e-004	0.1489	0.0392	9.1000e-004	0.0401		138.3675	138.3675	3.6100e-003		138.4578
<b>Total</b>	<b>0.0687</b>	<b>0.0504</b>	<b>0.4849</b>	<b>1.3900e-003</b>	<b>0.1479</b>	<b>9.9000e-004</b>	<b>0.1489</b>	<b>0.0392</b>	<b>9.1000e-004</b>	<b>0.0401</b>		<b>138.3675</b>	<b>138.3675</b>	<b>3.6100e-003</b>		<b>138.4578</b>

**3.3 Site Preparation - 2021**

**Unmitigated Construction On-Site**

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

Union City GPU - Alameda County, Winter

**3.3 Site Preparation - 2021**

**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	0.0634	0.0450	0.4412	1.3400e-003	0.1479	9.6000e-004	0.1488	0.0392	8.8000e-004	0.0401		133.5675	133.5675	3.2200e-003		133.6481
<b>Total</b>	<b>0.0634</b>	<b>0.0450</b>	<b>0.4412</b>	<b>1.3400e-003</b>	<b>0.1479</b>	<b>9.6000e-004</b>	<b>0.1488</b>	<b>0.0392</b>	<b>8.8000e-004</b>	<b>0.0401</b>		<b>133.5675</b>	<b>133.5675</b>	<b>3.2200e-003</b>		<b>133.6481</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.1298	0.0000	8.1298	4.4688	0.0000	4.4688			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
<b>Total</b>	<b>3.8882</b>	<b>40.4971</b>	<b>21.1543</b>	<b>0.0380</b>	<b>8.1298</b>	<b>2.0445</b>	<b>10.1743</b>	<b>4.4688</b>	<b>1.8809</b>	<b>6.3497</b>	<b>0.0000</b>	<b>3,685.6569</b>	<b>3,685.6569</b>	<b>1.1920</b>		<b>3,715.4573</b>

Union City GPU - Alameda County, Winter

**3.3 Site Preparation - 2021**

**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	0.0634	0.0450	0.4412	1.3400e-003	0.1479	9.6000e-004	0.1488	0.0392	8.8000e-004	0.0401		133.5675	133.5675	3.2200e-003		133.6481
<b>Total</b>	<b>0.0634</b>	<b>0.0450</b>	<b>0.4412</b>	<b>1.3400e-003</b>	<b>0.1479</b>	<b>9.6000e-004</b>	<b>0.1488</b>	<b>0.0392</b>	<b>8.8000e-004</b>	<b>0.0401</b>		<b>133.5675</b>	<b>133.5675</b>	<b>3.2200e-003</b>		<b>133.6481</b>

**3.4 Grading - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					11.0705	0.0000	11.0705	3.8553	0.0000	3.8553			0.0000			0.0000
Off-Road	4.1912	46.3998	30.8785	0.0620		1.9853	1.9853		1.8265	1.8265		6,007.0434	6,007.0434	1.9428		6,055.6134
<b>Total</b>	<b>4.1912</b>	<b>46.3998</b>	<b>30.8785</b>	<b>0.0620</b>	<b>11.0705</b>	<b>1.9853</b>	<b>13.0559</b>	<b>3.8553</b>	<b>1.8265</b>	<b>5.6819</b>		<b>6,007.0434</b>	<b>6,007.0434</b>	<b>1.9428</b>		<b>6,055.6134</b>

Union City GPU - Alameda County, Winter

**3.4 Grading - 2021**

**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	0.0705	0.0499	0.4902	1.4900e-003	0.1643	1.0600e-003	0.1654	0.0436	9.8000e-004	0.0446		148.4084	148.4084	3.5800e-003		148.4979
<b>Total</b>	<b>0.0705</b>	<b>0.0499</b>	<b>0.4902</b>	<b>1.4900e-003</b>	<b>0.1643</b>	<b>1.0600e-003</b>	<b>0.1654</b>	<b>0.0436</b>	<b>9.8000e-004</b>	<b>0.0446</b>		<b>148.4084</b>	<b>148.4084</b>	<b>3.5800e-003</b>		<b>148.4979</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					4.9817	0.0000	4.9817	1.7349	0.0000	1.7349			0.0000			0.0000
Off-Road	4.1912	46.3998	30.8785	0.0620		1.9853	1.9853		1.8265	1.8265	0.0000	6,007.0434	6,007.0434	1.9428		6,055.6134
<b>Total</b>	<b>4.1912</b>	<b>46.3998</b>	<b>30.8785</b>	<b>0.0620</b>	<b>4.9817</b>	<b>1.9853</b>	<b>6.9671</b>	<b>1.7349</b>	<b>1.8265</b>	<b>3.5614</b>	<b>0.0000</b>	<b>6,007.0434</b>	<b>6,007.0434</b>	<b>1.9428</b>		<b>6,055.6134</b>

Union City GPU - Alameda County, Winter

**3.4 Grading - 2021**

**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	0.0705	0.0499	0.4902	1.4900e-003	0.1643	1.0600e-003	0.1654	0.0436	9.8000e-004	0.0446		148.4084	148.4084	3.5800e-003		148.4979
<b>Total</b>	<b>0.0705</b>	<b>0.0499</b>	<b>0.4902</b>	<b>1.4900e-003</b>	<b>0.1643</b>	<b>1.0600e-003</b>	<b>0.1654</b>	<b>0.0436</b>	<b>9.8000e-004</b>	<b>0.0446</b>		<b>148.4084</b>	<b>148.4084</b>	<b>3.5800e-003</b>		<b>148.4979</b>

**3.4 Grading - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					11.0705	0.0000	11.0705	3.8553	0.0000	3.8553			0.0000			0.0000
Off-Road	3.6248	38.8435	29.0415	0.0621		1.6349	1.6349		1.5041	1.5041		6,011.4105	6,011.4105	1.9442		6,060.0158
<b>Total</b>	<b>3.6248</b>	<b>38.8435</b>	<b>29.0415</b>	<b>0.0621</b>	<b>11.0705</b>	<b>1.6349</b>	<b>12.7054</b>	<b>3.8553</b>	<b>1.5041</b>	<b>5.3594</b>		<b>6,011.4105</b>	<b>6,011.4105</b>	<b>1.9442</b>		<b>6,060.0158</b>

Union City GPU - Alameda County, Winter

**3.4 Grading - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0655	0.0447	0.4481	1.4300e-003	0.1643	1.0400e-003	0.1653	0.0436	9.5000e-004	0.0445		143.0002	143.0002	3.2000e-003		143.0802
<b>Total</b>	<b>0.0655</b>	<b>0.0447</b>	<b>0.4481</b>	<b>1.4300e-003</b>	<b>0.1643</b>	<b>1.0400e-003</b>	<b>0.1653</b>	<b>0.0436</b>	<b>9.5000e-004</b>	<b>0.0445</b>		<b>143.0002</b>	<b>143.0002</b>	<b>3.2000e-003</b>		<b>143.0802</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					4.9817	0.0000	4.9817	1.7349	0.0000	1.7349			0.0000			0.0000
Off-Road	3.6248	38.8435	29.0415	0.0621		1.6349	1.6349		1.5041	1.5041	0.0000	6,011.4105	6,011.4105	1.9442		6,060.0158
<b>Total</b>	<b>3.6248</b>	<b>38.8435</b>	<b>29.0415</b>	<b>0.0621</b>	<b>4.9817</b>	<b>1.6349</b>	<b>6.6166</b>	<b>1.7349</b>	<b>1.5041</b>	<b>3.2390</b>	<b>0.0000</b>	<b>6,011.4105</b>	<b>6,011.4105</b>	<b>1.9442</b>		<b>6,060.0158</b>



Union City GPU - Alameda County, Winter

**3.4 Grading - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0655	0.0447	0.4481	1.4300e-003	0.1643	1.0400e-003	0.1653	0.0436	9.5000e-004	0.0445		143.0002	143.0002	3.2000e-003		143.0802
<b>Total</b>	<b>0.0655</b>	<b>0.0447</b>	<b>0.4481</b>	<b>1.4300e-003</b>	<b>0.1643</b>	<b>1.0400e-003</b>	<b>0.1653</b>	<b>0.0436</b>	<b>9.5000e-004</b>	<b>0.0445</b>		<b>143.0002</b>	<b>143.0002</b>	<b>3.2000e-003</b>		<b>143.0802</b>

**3.5 Building Construction - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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
<b>Total</b>	<b>1.7062</b>	<b>15.6156</b>	<b>16.3634</b>	<b>0.0269</b>		<b>0.8090</b>	<b>0.8090</b>		<b>0.7612</b>	<b>0.7612</b>		<b>2,554.3336</b>	<b>2,554.3336</b>	<b>0.6120</b>		<b>2,569.6322</b>

Union City GPU - Alameda County, Winter

**3.5 Building Construction - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	5.3374	180.8400	40.9639	0.4755	12.0952	0.3509	12.4461	3.4826	0.3356	3.8182		50,213.6589	50,213.6589	2.8561		50,285.0623
Worker	18.8516	12.8665	128.9755	0.4129	47.2842	0.2980	47.5821	12.5420	0.2745	12.8165		41,155.4576	41,155.4576	0.9212		41,178.4879
<b>Total</b>	<b>24.1889</b>	<b>193.7065</b>	<b>169.9393</b>	<b>0.8884</b>	<b>59.3794</b>	<b>0.6489</b>	<b>60.0282</b>	<b>16.0246</b>	<b>0.6101</b>	<b>16.6347</b>		<b>91,369.1166</b>	<b>91,369.1166</b>	<b>3.7773</b>		<b>91,463.5502</b>

**Mitigated Construction On-Site**

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

Union City GPU - Alameda County, Winter

**3.5 Building Construction - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	5.3374	180.8400	40.9639	0.4755	12.0952	0.3509	12.4461	3.4826	0.3356	3.8182		50,213.6589	50,213.6589	2.8561		50,285.0623
Worker	18.8516	12.8665	128.9755	0.4129	47.2842	0.2980	47.5821	12.5420	0.2745	12.8165		41,155.4576	41,155.4576	0.9212		41,178.4879
<b>Total</b>	<b>24.1889</b>	<b>193.7065</b>	<b>169.9393</b>	<b>0.8884</b>	<b>59.3794</b>	<b>0.6489</b>	<b>60.0282</b>	<b>16.0246</b>	<b>0.6101</b>	<b>16.6347</b>		<b>91,369.1166</b>	<b>91,369.1166</b>	<b>3.7773</b>		<b>91,463.5502</b>

**3.5 Building Construction - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.2099	2,555.2099	0.6079		2,570.4061
<b>Total</b>	<b>1.5728</b>	<b>14.3849</b>	<b>16.2440</b>	<b>0.0269</b>		<b>0.6997</b>	<b>0.6997</b>		<b>0.6584</b>	<b>0.6584</b>		<b>2,555.2099</b>	<b>2,555.2099</b>	<b>0.6079</b>		<b>2,570.4061</b>

Union City GPU - Alameda County, Winter

**3.5 Building Construction - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	3.9182	139.9677	35.4500	0.4618	12.0955	0.1515	12.2470	3.4827	0.1449	3.6276		48,793.69 20	48,793.69 20	2.2723		48,850.49 94
Worker	17.5724	11.5414	117.9175	0.3970	47.2842	0.2911	47.5753	12.5420	0.2681	12.8101		39,581.56 82	39,581.56 82	0.8224		39,602.12 87
<b>Total</b>	<b>21.4907</b>	<b>151.5092</b>	<b>153.3675</b>	<b>0.8588</b>	<b>59.3797</b>	<b>0.4426</b>	<b>59.8223</b>	<b>16.0247</b>	<b>0.4130</b>	<b>16.4376</b>		<b>88,375.26 02</b>	<b>88,375.26 02</b>	<b>3.0947</b>		<b>88,452.62 80</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	2,555.209 9	2,555.209 9	0.6079		2,570.406 1
<b>Total</b>	<b>1.5728</b>	<b>14.3849</b>	<b>16.2440</b>	<b>0.0269</b>		<b>0.6997</b>	<b>0.6997</b>		<b>0.6584</b>	<b>0.6584</b>	<b>0.0000</b>	<b>2,555.209 9</b>	<b>2,555.209 9</b>	<b>0.6079</b>		<b>2,570.406 1</b>

Union City GPU - Alameda County, Winter

**3.5 Building Construction - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	3.9182	139.9677	35.4500	0.4618	12.0955	0.1515	12.2470	3.4827	0.1449	3.6276		48,793.69 20	48,793.69 20	2.2723		48,850.49 94
Worker	17.5724	11.5414	117.9175	0.3970	47.2842	0.2911	47.5753	12.5420	0.2681	12.8101		39,581.56 82	39,581.56 82	0.8224		39,602.12 87
<b>Total</b>	<b>21.4907</b>	<b>151.5092</b>	<b>153.3675</b>	<b>0.8588</b>	<b>59.3797</b>	<b>0.4426</b>	<b>59.8223</b>	<b>16.0247</b>	<b>0.4130</b>	<b>16.4376</b>		<b>88,375.26 02</b>	<b>88,375.26 02</b>	<b>3.0947</b>		<b>88,452.62 80</b>

**3.5 Building Construction - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769		2,555.698 9	2,555.698 9	0.6044		2,570.807 7
<b>Total</b>	<b>1.4716</b>	<b>13.4438</b>	<b>16.1668</b>	<b>0.0270</b>		<b>0.6133</b>	<b>0.6133</b>		<b>0.5769</b>	<b>0.5769</b>		<b>2,555.698 9</b>	<b>2,555.698 9</b>	<b>0.6044</b>		<b>2,570.807 7</b>

Union City GPU - Alameda County, Winter

**3.5 Building Construction - 2024**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	3.8000	138.9566	33.9431	0.4585	12.0958	0.1494	12.2452	3.4828	0.1428	3.6256		48,462.81 82	48,462.81 82	2.2439		48,518.91 49
Worker	16.4705	10.4015	108.7254	0.3812	47.2842	0.2850	47.5692	12.5420	0.2624	12.8044		38,012.85 69	38,012.85 69	0.7382		38,031.31 22
<b>Total</b>	<b>20.2706</b>	<b>149.3581</b>	<b>142.6685</b>	<b>0.8396</b>	<b>59.3800</b>	<b>0.4344</b>	<b>59.8144</b>	<b>16.0248</b>	<b>0.4052</b>	<b>16.4300</b>		<b>86,475.67 52</b>	<b>86,475.67 52</b>	<b>2.9821</b>		<b>86,550.22 72</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769	0.0000	2,555.698 9	2,555.698 9	0.6044		2,570.807 7
<b>Total</b>	<b>1.4716</b>	<b>13.4438</b>	<b>16.1668</b>	<b>0.0270</b>		<b>0.6133</b>	<b>0.6133</b>		<b>0.5769</b>	<b>0.5769</b>	<b>0.0000</b>	<b>2,555.698 9</b>	<b>2,555.698 9</b>	<b>0.6044</b>		<b>2,570.807 7</b>

Union City GPU - Alameda County, Winter

**3.5 Building Construction - 2024**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	3.8000	138.9566	33.9431	0.4585	12.0958	0.1494	12.2452	3.4828	0.1428	3.6256		48,462.81 82	48,462.81 82	2.2439		48,518.91 49
Worker	16.4705	10.4015	108.7254	0.3812	47.2842	0.2850	47.5692	12.5420	0.2624	12.8044		38,012.85 69	38,012.85 69	0.7382		38,031.31 22
<b>Total</b>	<b>20.2706</b>	<b>149.3581</b>	<b>142.6685</b>	<b>0.8396</b>	<b>59.3800</b>	<b>0.4344</b>	<b>59.8144</b>	<b>16.0248</b>	<b>0.4052</b>	<b>16.4300</b>		<b>86,475.67 52</b>	<b>86,475.67 52</b>	<b>2.9821</b>		<b>86,550.22 72</b>

**3.5 Building Construction - 2025**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>		<b>2,556.474 4</b>	<b>2,556.474 4</b>	<b>0.6010</b>		<b>2,571.498 1</b>

Union City GPU - Alameda County, Winter

**3.5 Building Construction - 2025**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	3.6975	137.8346	32.7299	0.4554	12.0961	0.1470	12.2430	3.4829	0.1405	3.6234		48,150.3902	48,150.3902	2.2116		48,205.6795
Worker	15.5294	9.4363	100.3849	0.3655	47.2842	0.2806	47.5648	12.5420	0.2583	12.8003		36,461.0901	36,461.0901	0.6673		36,477.7731
<b>Total</b>	<b>19.2269</b>	<b>147.2709</b>	<b>133.1148</b>	<b>0.8209</b>	<b>59.3803</b>	<b>0.4276</b>	<b>59.8078</b>	<b>16.0249</b>	<b>0.3988</b>	<b>16.4237</b>		<b>84,611.4802</b>	<b>84,611.4802</b>	<b>2.8789</b>		<b>84,683.4526</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.4744	2,556.4744	0.6010		2,571.4981
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>	<b>0.0000</b>	<b>2,556.4744</b>	<b>2,556.4744</b>	<b>0.6010</b>		<b>2,571.4981</b>



Union City GPU - Alameda County, Winter

**3.5 Building Construction - 2025**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	3.6975	137.8346	32.7299	0.4554	12.0961	0.1470	12.2430	3.4829	0.1405	3.6234		48,150.3902	48,150.3902	2.2116		48,205.6795
Worker	15.5294	9.4363	100.3849	0.3655	47.2842	0.2806	47.5648	12.5420	0.2583	12.8003		36,461.0901	36,461.0901	0.6673		36,477.7731
<b>Total</b>	<b>19.2269</b>	<b>147.2709</b>	<b>133.1148</b>	<b>0.8209</b>	<b>59.3803</b>	<b>0.4276</b>	<b>59.8078</b>	<b>16.0249</b>	<b>0.3988</b>	<b>16.4237</b>		<b>84,611.4802</b>	<b>84,611.4802</b>	<b>2.8789</b>		<b>84,683.4526</b>

**3.5 Building Construction - 2026**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.4744	2,556.4744	0.6010		2,571.4981
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>		<b>2,556.4744</b>	<b>2,556.4744</b>	<b>0.6010</b>		<b>2,571.4981</b>

Union City GPU - Alameda County, Winter

**3.5 Building Construction - 2026**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	3.6127	136.7385	31.7737	0.4526	12.0964	0.1447	12.2411	3.4830	0.1384	3.6214		47,871.00 21	47,871.00 21	2.1822		47,925.55 79
Worker	14.7279	8.6223	93.3149	0.3519	47.2842	0.2724	47.5566	12.5420	0.2507	12.7927		35,104.29 20	35,104.29 20	0.6068		35,119.461 9
<b>Total</b>	<b>18.3406</b>	<b>145.3608</b>	<b>125.0885</b>	<b>0.8045</b>	<b>59.3805</b>	<b>0.4171</b>	<b>59.7977</b>	<b>16.0250</b>	<b>0.3891</b>	<b>16.4141</b>		<b>82,975.29 41</b>	<b>82,975.29 41</b>	<b>2.7890</b>		<b>83,045.01 98</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>	<b>0.0000</b>	<b>2,556.474 4</b>	<b>2,556.474 4</b>	<b>0.6010</b>		<b>2,571.498 1</b>

Union City GPU - Alameda County, Winter

**3.5 Building Construction - 2026**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	3.6127	136.7385	31.7737	0.4526	12.0964	0.1447	12.2411	3.4830	0.1384	3.6214		47,871.00 21	47,871.00 21	2.1822		47,925.55 79
Worker	14.7279	8.6223	93.3149	0.3519	47.2842	0.2724	47.5566	12.5420	0.2507	12.7927		35,104.29 20	35,104.29 20	0.6068		35,119.461 9
<b>Total</b>	<b>18.3406</b>	<b>145.3608</b>	<b>125.0885</b>	<b>0.8045</b>	<b>59.3805</b>	<b>0.4171</b>	<b>59.7977</b>	<b>16.0250</b>	<b>0.3891</b>	<b>16.4141</b>		<b>82,975.29 41</b>	<b>82,975.29 41</b>	<b>2.7890</b>		<b>83,045.01 98</b>

**3.5 Building Construction - 2027**

**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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>		<b>2,556.474 4</b>	<b>2,556.474 4</b>	<b>0.6010</b>		<b>2,571.498 1</b>

Union City GPU - Alameda County, Winter

**3.5 Building Construction - 2027**

**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	3.5380	135.5878	30.9769	0.4501	12.0966	0.1424	12.2390	3.4831	0.1362	3.6193		47,615.8400	47,615.8400	2.1582		47,669.7936
Worker	13.9593	7.8977	87.0470	0.3397	47.2842	0.2582	47.5424	12.5420	0.2376	12.7796		33,897.7897	33,897.7897	0.5529		33,911.6113
<b>Total</b>	<b>17.4973</b>	<b>143.4855</b>	<b>118.0239</b>	<b>0.7898</b>	<b>59.3808</b>	<b>0.4006</b>	<b>59.7814</b>	<b>16.0251</b>	<b>0.3738</b>	<b>16.3988</b>		<b>81,513.6297</b>	<b>81,513.6297</b>	<b>2.7110</b>		<b>81,581.4050</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.4744	2,556.4744	0.6010		2,571.4981
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>	<b>0.0000</b>	<b>2,556.4744</b>	<b>2,556.4744</b>	<b>0.6010</b>		<b>2,571.4981</b>

Union City GPU - Alameda County, Winter

**3.5 Building Construction - 2027**

**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	3.5380	135.5878	30.9769	0.4501	12.0966	0.1424	12.2390	3.4831	0.1362	3.6193		47,615.8400	47,615.8400	2.1582		47,669.7936
Worker	13.9593	7.8977	87.0470	0.3397	47.2842	0.2582	47.5424	12.5420	0.2376	12.7796		33,897.7897	33,897.7897	0.5529		33,911.6113
<b>Total</b>	<b>17.4973</b>	<b>143.4855</b>	<b>118.0239</b>	<b>0.7898</b>	<b>59.3808</b>	<b>0.4006</b>	<b>59.7814</b>	<b>16.0251</b>	<b>0.3738</b>	<b>16.3988</b>		<b>81,513.6297</b>	<b>81,513.6297</b>	<b>2.7110</b>		<b>81,581.4050</b>

**3.5 Building Construction - 2028**

**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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.4744	2,556.4744	0.6010		2,571.4981
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>		<b>2,556.4744</b>	<b>2,556.4744</b>	<b>0.6010</b>		<b>2,571.4981</b>

Union City GPU - Alameda County, Winter

**3.5 Building Construction - 2028**

**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	3.4746	134.7340	30.3227	0.4480	12.0968	0.1405	12.2373	3.4832	0.1343	3.6175		47,409.5233	47,409.5233	2.1326		47,462.8379
Worker	13.1463	7.2529	81.5214	0.3290	47.2842	0.2400	47.5242	12.5420	0.2208	12.7628		32,831.7390	32,831.7390	0.5060		32,844.3900
<b>Total</b>	<b>16.6209</b>	<b>141.9869</b>	<b>111.8441</b>	<b>0.7770</b>	<b>59.3810</b>	<b>0.3805</b>	<b>59.7614</b>	<b>16.0251</b>	<b>0.3551</b>	<b>16.3802</b>		<b>80,241.2622</b>	<b>80,241.2622</b>	<b>2.6386</b>		<b>80,307.2279</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.4744	2,556.4744	0.6010		2,571.4981
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>	<b>0.0000</b>	<b>2,556.4744</b>	<b>2,556.4744</b>	<b>0.6010</b>		<b>2,571.4981</b>

Union City GPU - Alameda County, Winter

**3.5 Building Construction - 2028**

**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	3.4746	134.7340	30.3227	0.4480	12.0968	0.1405	12.2373	3.4832	0.1343	3.6175		47,409.5233	47,409.5233	2.1326		47,462.8379
Worker	13.1463	7.2529	81.5214	0.3290	47.2842	0.2400	47.5242	12.5420	0.2208	12.7628		32,831.7390	32,831.7390	0.5060		32,844.3900
<b>Total</b>	<b>16.6209</b>	<b>141.9869</b>	<b>111.8441</b>	<b>0.7770</b>	<b>59.3810</b>	<b>0.3805</b>	<b>59.7614</b>	<b>16.0251</b>	<b>0.3551</b>	<b>16.3802</b>		<b>80,241.2622</b>	<b>80,241.2622</b>	<b>2.6386</b>		<b>80,307.2279</b>

**3.5 Building Construction - 2029**

**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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.4744	2,556.4744	0.6010		2,571.4981
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>		<b>2,556.4744</b>	<b>2,556.4744</b>	<b>0.6010</b>		<b>2,571.4981</b>

Union City GPU - Alameda County, Winter

**3.5 Building Construction - 2029**

**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	3.4042	133.4511	29.5878	0.4456	12.0970	0.1377	12.2347	3.4832	0.1317	3.6149		47,161.95 15	47,161.95 15	2.1190		47,214.92 73
Worker	12.2995	6.6653	76.3483	0.3195	47.2842	0.2238	47.5079	12.5420	0.2058	12.7478		31,890.27 82	31,890.27 82	0.4626		31,901.84 33
<b>Total</b>	<b>15.7037</b>	<b>140.1164</b>	<b>105.9361</b>	<b>0.7651</b>	<b>59.3812</b>	<b>0.3615</b>	<b>59.7427</b>	<b>16.0252</b>	<b>0.3375</b>	<b>16.3627</b>		<b>79,052.22 96</b>	<b>79,052.22 96</b>	<b>2.5816</b>		<b>79,116.77 06</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>	<b>0.0000</b>	<b>2,556.474 4</b>	<b>2,556.474 4</b>	<b>0.6010</b>		<b>2,571.498 1</b>



Union City GPU - Alameda County, Winter

**3.5 Building Construction - 2029**

**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	3.4042	133.4511	29.5878	0.4456	12.0970	0.1377	12.2347	3.4832	0.1317	3.6149		47,161.95 15	47,161.95 15	2.1190		47,214.92 73
Worker	12.2995	6.6653	76.3483	0.3195	47.2842	0.2238	47.5079	12.5420	0.2058	12.7478		31,890.27 82	31,890.27 82	0.4626		31,901.84 33
<b>Total</b>	<b>15.7037</b>	<b>140.1164</b>	<b>105.9361</b>	<b>0.7651</b>	<b>59.3812</b>	<b>0.3615</b>	<b>59.7427</b>	<b>16.0252</b>	<b>0.3375</b>	<b>16.3627</b>		<b>79,052.22 96</b>	<b>79,052.22 96</b>	<b>2.5816</b>		<b>79,116.77 06</b>

**3.5 Building Construction - 2030**

**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	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.546 8	2,897.546 8	0.1162		2,900.452 9
<b>Total</b>	<b>1.3091</b>	<b>7.9346</b>	<b>16.1570</b>	<b>0.0310</b>		<b>0.1481</b>	<b>0.1481</b>		<b>0.1481</b>	<b>0.1481</b>		<b>2,897.546 8</b>	<b>2,897.546 8</b>	<b>0.1162</b>		<b>2,900.452 9</b>

Union City GPU - Alameda County, Winter

**3.5 Building Construction - 2030**

**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	3.3531	132.5906	29.0750	0.4437	12.0972	0.1355	12.2327	3.4833	0.1295	3.6128		46,978.14 22	46,978.14 22	2.1031		47,030.71 99
Worker	11.4694	6.1329	71.6945	0.3112	47.2842	0.2089	47.4930	12.5420	0.1921	12.7341		31,061.61 86	31,061.61 86	0.4239		31,072.21 66
<b>Total</b>	<b>14.8225</b>	<b>138.7235</b>	<b>100.7695</b>	<b>0.7549</b>	<b>59.3814</b>	<b>0.3443</b>	<b>59.7257</b>	<b>16.0253</b>	<b>0.3216</b>	<b>16.3469</b>		<b>78,039.76 08</b>	<b>78,039.76 08</b>	<b>2.5270</b>		<b>78,102.93 65</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481	0.0000	2,897.546 8	2,897.546 8	0.1162		2,900.452 9
<b>Total</b>	<b>1.3091</b>	<b>7.9346</b>	<b>16.1570</b>	<b>0.0310</b>		<b>0.1481</b>	<b>0.1481</b>		<b>0.1481</b>	<b>0.1481</b>	<b>0.0000</b>	<b>2,897.546 8</b>	<b>2,897.546 8</b>	<b>0.1162</b>		<b>2,900.452 9</b>

Union City GPU - Alameda County, Winter

**3.5 Building Construction - 2030**

**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	3.3531	132.5906	29.0750	0.4437	12.0972	0.1355	12.2327	3.4833	0.1295	3.6128		46,978.1422	46,978.1422	2.1031		47,030.7199
Worker	11.4694	6.1329	71.6945	0.3112	47.2842	0.2089	47.4930	12.5420	0.1921	12.7341		31,061.6186	31,061.6186	0.4239		31,072.2166
<b>Total</b>	<b>14.8225</b>	<b>138.7235</b>	<b>100.7695</b>	<b>0.7549</b>	<b>59.3814</b>	<b>0.3443</b>	<b>59.7257</b>	<b>16.0253</b>	<b>0.3216</b>	<b>16.3469</b>		<b>78,039.7608</b>	<b>78,039.7608</b>	<b>2.5270</b>		<b>78,102.9365</b>

**3.5 Building Construction - 2031**

**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	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529
<b>Total</b>	<b>1.3091</b>	<b>7.9346</b>	<b>16.1570</b>	<b>0.0310</b>		<b>0.1481</b>	<b>0.1481</b>		<b>0.1481</b>	<b>0.1481</b>		<b>2,897.5468</b>	<b>2,897.5468</b>	<b>0.1162</b>		<b>2,900.4529</b>

Union City GPU - Alameda County, Winter

**3.5 Building Construction - 2031**

**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	3.3153	131.9519	28.6915	0.4424	12.0974	0.1338	12.2312	3.4834	0.1280	3.6113		46,843.76 80	46,843.76 80	2.0910		46,896.04 22
Worker	10.5826	5.6303	67.2425	0.3038	47.2842	0.1951	47.4792	12.5420	0.1794	12.7214		30,334.54 61	30,334.54 61	0.3877		30,344.23 75
<b>Total</b>	<b>13.8979</b>	<b>137.5822</b>	<b>95.9339</b>	<b>0.7462</b>	<b>59.3815</b>	<b>0.3289</b>	<b>59.7104</b>	<b>16.0253</b>	<b>0.3074</b>	<b>16.3327</b>		<b>77,178.31 41</b>	<b>77,178.31 41</b>	<b>2.4786</b>		<b>77,240.27 97</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481	0.0000	2,897.546 8	2,897.546 8	0.1162		2,900.452 9
<b>Total</b>	<b>1.3091</b>	<b>7.9346</b>	<b>16.1570</b>	<b>0.0310</b>		<b>0.1481</b>	<b>0.1481</b>		<b>0.1481</b>	<b>0.1481</b>	<b>0.0000</b>	<b>2,897.546 8</b>	<b>2,897.546 8</b>	<b>0.1162</b>		<b>2,900.452 9</b>

Union City GPU - Alameda County, Winter

**3.5 Building Construction - 2031**

**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	3.3153	131.9519	28.6915	0.4424	12.0974	0.1338	12.2312	3.4834	0.1280	3.6113		46,843.76 80	46,843.76 80	2.0910		46,896.04 22
Worker	10.5826	5.6303	67.2425	0.3038	47.2842	0.1951	47.4792	12.5420	0.1794	12.7214		30,334.54 61	30,334.54 61	0.3877		30,344.23 75
<b>Total</b>	<b>13.8979</b>	<b>137.5822</b>	<b>95.9339</b>	<b>0.7462</b>	<b>59.3815</b>	<b>0.3289</b>	<b>59.7104</b>	<b>16.0253</b>	<b>0.3074</b>	<b>16.3327</b>		<b>77,178.31 41</b>	<b>77,178.31 41</b>	<b>2.4786</b>		<b>77,240.27 97</b>

**3.5 Building Construction - 2032**

**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	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.546 8	2,897.546 8	0.1162		2,900.452 9
<b>Total</b>	<b>1.3091</b>	<b>7.9346</b>	<b>16.1570</b>	<b>0.0310</b>		<b>0.1481</b>	<b>0.1481</b>		<b>0.1481</b>	<b>0.1481</b>		<b>2,897.546 8</b>	<b>2,897.546 8</b>	<b>0.1162</b>		<b>2,900.452 9</b>

Union City GPU - Alameda County, Winter

**3.5 Building Construction - 2032**

**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	3.2864	131.4302	28.4120	0.4415	12.0975	0.1325	12.2300	3.4834	0.1267	3.6101		46,752.1675	46,752.1675	2.0818		46,804.2115
Worker	9.8171	5.2059	63.3819	0.2974	47.2842	0.1823	47.4665	12.5420	0.1677	12.7097		29,702.0906	29,702.0906	0.3566		29,711.0053
<b>Total</b>	<b>13.1034</b>	<b>136.6361</b>	<b>91.7940</b>	<b>0.7389</b>	<b>59.3817</b>	<b>0.3148</b>	<b>59.6965</b>	<b>16.0254</b>	<b>0.2944</b>	<b>16.3198</b>		<b>76,454.2581</b>	<b>76,454.2581</b>	<b>2.4384</b>		<b>76,515.2168</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529
<b>Total</b>	<b>1.3091</b>	<b>7.9346</b>	<b>16.1570</b>	<b>0.0310</b>		<b>0.1481</b>	<b>0.1481</b>		<b>0.1481</b>	<b>0.1481</b>	<b>0.0000</b>	<b>2,897.5468</b>	<b>2,897.5468</b>	<b>0.1162</b>		<b>2,900.4529</b>

Union City GPU - Alameda County, Winter

**3.5 Building Construction - 2032**

**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	3.2864	131.4302	28.4120	0.4415	12.0975	0.1325	12.2300	3.4834	0.1267	3.6101		46,752.1675	46,752.1675	2.0818		46,804.2115
Worker	9.8171	5.2059	63.3819	0.2974	47.2842	0.1823	47.4665	12.5420	0.1677	12.7097		29,702.0906	29,702.0906	0.3566		29,711.0053
<b>Total</b>	<b>13.1034</b>	<b>136.6361</b>	<b>91.7940</b>	<b>0.7389</b>	<b>59.3817</b>	<b>0.3148</b>	<b>59.6965</b>	<b>16.0254</b>	<b>0.2944</b>	<b>16.3198</b>		<b>76,454.2581</b>	<b>76,454.2581</b>	<b>2.4384</b>		<b>76,515.2168</b>

**3.5 Building Construction - 2033**

**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	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529
<b>Total</b>	<b>1.3091</b>	<b>7.9346</b>	<b>16.1570</b>	<b>0.0310</b>		<b>0.1481</b>	<b>0.1481</b>		<b>0.1481</b>	<b>0.1481</b>		<b>2,897.5468</b>	<b>2,897.5468</b>	<b>0.1162</b>		<b>2,900.4529</b>

Union City GPU - Alameda County, Winter

**3.5 Building Construction - 2033**

**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	3.2657	130.9786	28.1847	0.4408	12.0976	0.1314	12.2291	3.4835	0.1257	3.6091		46,682.54 12	46,682.54 12	2.0759		46,734.43 76
Worker	9.1693	4.8500	60.0572	0.2919	47.2842	0.1707	47.4549	12.5420	0.1570	12.6990		29,155.69 36	29,155.69 36	0.3301		29,163.94 68
<b>Total</b>	<b>12.4350</b>	<b>135.8286</b>	<b>88.2419</b>	<b>0.7327</b>	<b>59.3818</b>	<b>0.3022</b>	<b>59.6840</b>	<b>16.0254</b>	<b>0.2827</b>	<b>16.3081</b>		<b>75,838.23 48</b>	<b>75,838.23 48</b>	<b>2.4060</b>		<b>75,898.38 44</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481	0.0000	2,897.546 8	2,897.546 8	0.1162		2,900.452 9
<b>Total</b>	<b>1.3091</b>	<b>7.9346</b>	<b>16.1570</b>	<b>0.0310</b>		<b>0.1481</b>	<b>0.1481</b>		<b>0.1481</b>	<b>0.1481</b>	<b>0.0000</b>	<b>2,897.546 8</b>	<b>2,897.546 8</b>	<b>0.1162</b>		<b>2,900.452 9</b>



Union City GPU - Alameda County, Winter

**3.5 Building Construction - 2033**

**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	3.2657	130.9786	28.1847	0.4408	12.0976	0.1314	12.2291	3.4835	0.1257	3.6091		46,682.54 12	46,682.54 12	2.0759		46,734.43 76
Worker	9.1693	4.8500	60.0572	0.2919	47.2842	0.1707	47.4549	12.5420	0.1570	12.6990		29,155.69 36	29,155.69 36	0.3301		29,163.94 68
<b>Total</b>	<b>12.4350</b>	<b>135.8286</b>	<b>88.2419</b>	<b>0.7327</b>	<b>59.3818</b>	<b>0.3022</b>	<b>59.6840</b>	<b>16.0254</b>	<b>0.2827</b>	<b>16.3081</b>		<b>75,838.23 48</b>	<b>75,838.23 48</b>	<b>2.4060</b>		<b>75,898.38 44</b>

**3.5 Building Construction - 2034**

**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	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.546 8	2,897.546 8	0.1162		2,900.452 9
<b>Total</b>	<b>1.3091</b>	<b>7.9346</b>	<b>16.1570</b>	<b>0.0310</b>		<b>0.1481</b>	<b>0.1481</b>		<b>0.1481</b>	<b>0.1481</b>		<b>2,897.546 8</b>	<b>2,897.546 8</b>	<b>0.1162</b>		<b>2,900.452 9</b>

Union City GPU - Alameda County, Winter

**3.5 Building Construction - 2034**

**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	3.2460	130.5781	27.9667	0.4403	12.0977	0.1303	12.2281	3.4835	0.1246	3.6081		46,633.00 22	46,633.00 22	2.0713		46,684.78 54
Worker	8.6135	4.5496	56.9342	0.2872	47.2842	0.1599	47.4441	12.5420	0.1471	12.6891		28,683.89 86	28,683.89 86	0.3058		28,691.54 27
<b>Total</b>	<b>11.8595</b>	<b>135.1277</b>	<b>84.9009</b>	<b>0.7274</b>	<b>59.3819</b>	<b>0.2902</b>	<b>59.6721</b>	<b>16.0255</b>	<b>0.2717</b>	<b>16.2971</b>		<b>75,316.90 08</b>	<b>75,316.90 08</b>	<b>2.3771</b>		<b>75,376.32 80</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481	0.0000	2,897.546 8	2,897.546 8	0.1162		2,900.452 9
<b>Total</b>	<b>1.3091</b>	<b>7.9346</b>	<b>16.1570</b>	<b>0.0310</b>		<b>0.1481</b>	<b>0.1481</b>		<b>0.1481</b>	<b>0.1481</b>	<b>0.0000</b>	<b>2,897.546 8</b>	<b>2,897.546 8</b>	<b>0.1162</b>		<b>2,900.452 9</b>

Union City GPU - Alameda County, Winter

**3.5 Building Construction - 2034**

**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	3.2460	130.5781	27.9667	0.4403	12.0977	0.1303	12.2281	3.4835	0.1246	3.6081		46,633.00 22	46,633.00 22	2.0713		46,684.78 54
Worker	8.6135	4.5496	56.9342	0.2872	47.2842	0.1599	47.4441	12.5420	0.1471	12.6891		28,683.89 86	28,683.89 86	0.3058		28,691.54 27
<b>Total</b>	<b>11.8595</b>	<b>135.1277</b>	<b>84.9009</b>	<b>0.7274</b>	<b>59.3819</b>	<b>0.2902</b>	<b>59.6721</b>	<b>16.0255</b>	<b>0.2717</b>	<b>16.2971</b>		<b>75,316.90 08</b>	<b>75,316.90 08</b>	<b>2.3771</b>		<b>75,376.32 80</b>

**3.5 Building Construction - 2035**

**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	1.2168	7.1613	16.1178	0.0310		0.0904	0.0904		0.0904	0.0904		2,897.546 8	2,897.546 8	0.1079		2,900.244 8
<b>Total</b>	<b>1.2168</b>	<b>7.1613</b>	<b>16.1178</b>	<b>0.0310</b>		<b>0.0904</b>	<b>0.0904</b>		<b>0.0904</b>	<b>0.0904</b>		<b>2,897.546 8</b>	<b>2,897.546 8</b>	<b>0.1079</b>		<b>2,900.244 8</b>

Union City GPU - Alameda County, Winter

**3.5 Building Construction - 2035**

**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	3.2287	130.2112	27.7783	0.4399	12.0978	0.1293	12.2271	3.4835	0.1236	3.6071		46,595.8968	46,595.8968	2.0679		46,647.5934
Worker	8.1289	4.3132	54.2394	0.2831	47.2842	0.1501	47.4343	12.5420	0.1381	12.6800		28,282.1163	28,282.1163	0.2850		28,289.2401
<b>Total</b>	<b>11.3576</b>	<b>134.5244</b>	<b>82.0177</b>	<b>0.7230</b>	<b>59.3820</b>	<b>0.2794</b>	<b>59.6614</b>	<b>16.0255</b>	<b>0.2617</b>	<b>16.2872</b>		<b>74,878.0131</b>	<b>74,878.0131</b>	<b>2.3528</b>		<b>74,936.8335</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2168	7.1613	16.1178	0.0310		0.0904	0.0904		0.0904	0.0904	0.0000	2,897.5468	2,897.5468	0.1079		2,900.2448
<b>Total</b>	<b>1.2168</b>	<b>7.1613</b>	<b>16.1178</b>	<b>0.0310</b>		<b>0.0904</b>	<b>0.0904</b>		<b>0.0904</b>	<b>0.0904</b>	<b>0.0000</b>	<b>2,897.5468</b>	<b>2,897.5468</b>	<b>0.1079</b>		<b>2,900.2448</b>

Union City GPU - Alameda County, Winter

**3.5 Building Construction - 2035**

**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	3.2287	130.2112	27.7783	0.4399	12.0978	0.1293	12.2271	3.4835	0.1236	3.6071		46,595.89 68	46,595.89 68	2.0679		46,647.59 34
Worker	8.1289	4.3132	54.2394	0.2831	47.2842	0.1501	47.4343	12.5420	0.1381	12.6800		28,282.11 63	28,282.116 3	0.2850		28,289.24 01
<b>Total</b>	<b>11.3576</b>	<b>134.5244</b>	<b>82.0177</b>	<b>0.7230</b>	<b>59.3820</b>	<b>0.2794</b>	<b>59.6614</b>	<b>16.0255</b>	<b>0.2617</b>	<b>16.2872</b>		<b>74,878.01 31</b>	<b>74,878.01 31</b>	<b>2.3528</b>		<b>74,936.83 35</b>

**3.5 Building Construction - 2036**

**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	1.2168	7.1613	16.1178	0.0310		0.0904	0.0904		0.0904	0.0904		2,897.546 8	2,897.546 8	0.1079		2,900.244 8
<b>Total</b>	<b>1.2168</b>	<b>7.1613</b>	<b>16.1178</b>	<b>0.0310</b>		<b>0.0904</b>	<b>0.0904</b>		<b>0.0904</b>	<b>0.0904</b>		<b>2,897.546 8</b>	<b>2,897.546 8</b>	<b>0.1079</b>		<b>2,900.244 8</b>

Union City GPU - Alameda County, Winter

**3.5 Building Construction - 2036**

**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	3.2287	130.2112	27.7783	0.4399	12.0978	0.1293	12.2271	3.4835	0.1236	3.6071		46,595.89 68	46,595.89 68	2.0679		46,647.59 34
Worker	8.1289	4.3132	54.2394	0.2831	47.2842	0.1501	47.4343	12.5420	0.1381	12.6800		28,282.11 63	28,282.11 63	0.2850		28,289.24 01
<b>Total</b>	<b>11.3576</b>	<b>134.5244</b>	<b>82.0177</b>	<b>0.7230</b>	<b>59.3820</b>	<b>0.2794</b>	<b>59.6614</b>	<b>16.0255</b>	<b>0.2617</b>	<b>16.2872</b>		<b>74,878.01 31</b>	<b>74,878.01 31</b>	<b>2.3528</b>		<b>74,936.83 35</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2168	7.1613	16.1178	0.0310		0.0904	0.0904		0.0904	0.0904	0.0000	2,897.546 8	2,897.546 8	0.1079		2,900.244 8
<b>Total</b>	<b>1.2168</b>	<b>7.1613</b>	<b>16.1178</b>	<b>0.0310</b>		<b>0.0904</b>	<b>0.0904</b>		<b>0.0904</b>	<b>0.0904</b>	<b>0.0000</b>	<b>2,897.546 8</b>	<b>2,897.546 8</b>	<b>0.1079</b>		<b>2,900.244 8</b>

Union City GPU - Alameda County, Winter

**3.5 Building Construction - 2036**

**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	3.2287	130.2112	27.7783	0.4399	12.0978	0.1293	12.2271	3.4835	0.1236	3.6071		46,595.8968	46,595.8968	2.0679		46,647.5934
Worker	8.1289	4.3132	54.2394	0.2831	47.2842	0.1501	47.4343	12.5420	0.1381	12.6800		28,282.1163	28,282.1163	0.2850		28,289.2401
<b>Total</b>	<b>11.3576</b>	<b>134.5244</b>	<b>82.0177</b>	<b>0.7230</b>	<b>59.3820</b>	<b>0.2794</b>	<b>59.6614</b>	<b>16.0255</b>	<b>0.2617</b>	<b>16.2872</b>		<b>74,878.0131</b>	<b>74,878.0131</b>	<b>2.3528</b>		<b>74,936.8335</b>

**3.5 Building Construction - 2037**

**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	1.2168	7.1613	16.1178	0.0310		0.0904	0.0904		0.0904	0.0904		2,897.5468	2,897.5468	0.1079		2,900.2448
<b>Total</b>	<b>1.2168</b>	<b>7.1613</b>	<b>16.1178</b>	<b>0.0310</b>		<b>0.0904</b>	<b>0.0904</b>		<b>0.0904</b>	<b>0.0904</b>		<b>2,897.5468</b>	<b>2,897.5468</b>	<b>0.1079</b>		<b>2,900.2448</b>

Union City GPU - Alameda County, Winter

**3.5 Building Construction - 2037**

**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	3.2287	130.2112	27.7783	0.4399	12.0978	0.1293	12.2271	3.4835	0.1236	3.6071		46,595.8968	46,595.8968	2.0679		46,647.5934
Worker	8.1289	4.3132	54.2394	0.2831	47.2842	0.1501	47.4343	12.5420	0.1381	12.6800		28,282.1163	28,282.1163	0.2850		28,289.2401
<b>Total</b>	<b>11.3576</b>	<b>134.5244</b>	<b>82.0177</b>	<b>0.7230</b>	<b>59.3820</b>	<b>0.2794</b>	<b>59.6614</b>	<b>16.0255</b>	<b>0.2617</b>	<b>16.2872</b>		<b>74,878.0131</b>	<b>74,878.0131</b>	<b>2.3528</b>		<b>74,936.8335</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2168	7.1613	16.1178	0.0310		0.0904	0.0904		0.0904	0.0904	0.0000	2,897.5468	2,897.5468	0.1079		2,900.2448
<b>Total</b>	<b>1.2168</b>	<b>7.1613</b>	<b>16.1178</b>	<b>0.0310</b>		<b>0.0904</b>	<b>0.0904</b>		<b>0.0904</b>	<b>0.0904</b>	<b>0.0000</b>	<b>2,897.5468</b>	<b>2,897.5468</b>	<b>0.1079</b>		<b>2,900.2448</b>



Union City GPU - Alameda County, Winter

**3.5 Building Construction - 2037**

**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	3.2287	130.2112	27.7783	0.4399	12.0978	0.1293	12.2271	3.4835	0.1236	3.6071		46,595.89 68	46,595.89 68	2.0679		46,647.59 34
Worker	8.1289	4.3132	54.2394	0.2831	47.2842	0.1501	47.4343	12.5420	0.1381	12.6800		28,282.11 63	28,282.116 3	0.2850		28,289.24 01
<b>Total</b>	<b>11.3576</b>	<b>134.5244</b>	<b>82.0177</b>	<b>0.7230</b>	<b>59.3820</b>	<b>0.2794</b>	<b>59.6614</b>	<b>16.0255</b>	<b>0.2617</b>	<b>16.2872</b>		<b>74,878.01 31</b>	<b>74,878.01 31</b>	<b>2.3528</b>		<b>74,936.83 35</b>

**3.5 Building Construction - 2038**

**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	1.2168	7.1613	16.1178	0.0310		0.0904	0.0904		0.0904	0.0904		2,897.546 8	2,897.546 8	0.1079		2,900.244 8
<b>Total</b>	<b>1.2168</b>	<b>7.1613</b>	<b>16.1178</b>	<b>0.0310</b>		<b>0.0904</b>	<b>0.0904</b>		<b>0.0904</b>	<b>0.0904</b>		<b>2,897.546 8</b>	<b>2,897.546 8</b>	<b>0.1079</b>		<b>2,900.244 8</b>

Union City GPU - Alameda County, Winter

**3.5 Building Construction - 2038**

**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	3.2287	130.2112	27.7783	0.4399	12.0978	0.1293	12.2271	3.4835	0.1236	3.6071		46,595.8968	46,595.8968	2.0679		46,647.5934
Worker	8.1289	4.3132	54.2394	0.2831	47.2842	0.1501	47.4343	12.5420	0.1381	12.6800		28,282.1163	28,282.1163	0.2850		28,289.2401
<b>Total</b>	<b>11.3576</b>	<b>134.5244</b>	<b>82.0177</b>	<b>0.7230</b>	<b>59.3820</b>	<b>0.2794</b>	<b>59.6614</b>	<b>16.0255</b>	<b>0.2617</b>	<b>16.2872</b>		<b>74,878.0131</b>	<b>74,878.0131</b>	<b>2.3528</b>		<b>74,936.8335</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2168	7.1613	16.1178	0.0310		0.0904	0.0904		0.0904	0.0904	0.0000	2,897.5468	2,897.5468	0.1079		2,900.2448
<b>Total</b>	<b>1.2168</b>	<b>7.1613</b>	<b>16.1178</b>	<b>0.0310</b>		<b>0.0904</b>	<b>0.0904</b>		<b>0.0904</b>	<b>0.0904</b>	<b>0.0000</b>	<b>2,897.5468</b>	<b>2,897.5468</b>	<b>0.1079</b>		<b>2,900.2448</b>

Union City GPU - Alameda County, Winter

**3.5 Building Construction - 2038**

**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	3.2287	130.2112	27.7783	0.4399	12.0978	0.1293	12.2271	3.4835	0.1236	3.6071		46,595.8968	46,595.8968	2.0679		46,647.5934
Worker	8.1289	4.3132	54.2394	0.2831	47.2842	0.1501	47.4343	12.5420	0.1381	12.6800		28,282.1163	28,282.1163	0.2850		28,289.2401
<b>Total</b>	<b>11.3576</b>	<b>134.5244</b>	<b>82.0177</b>	<b>0.7230</b>	<b>59.3820</b>	<b>0.2794</b>	<b>59.6614</b>	<b>16.0255</b>	<b>0.2617</b>	<b>16.2872</b>		<b>74,878.0131</b>	<b>74,878.0131</b>	<b>2.3528</b>		<b>74,936.8335</b>

**3.6 Architectural Coating - 2030**

**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	61.6480					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203		281.4481	281.4481	0.0114		281.7328
<b>Total</b>	<b>61.7787</b>	<b>0.8563</b>	<b>1.7977</b>	<b>2.9700e-003</b>		<b>0.0203</b>	<b>0.0203</b>		<b>0.0203</b>	<b>0.0203</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0114</b>		<b>281.7328</b>

Union City GPU - Alameda County, Winter

**3.6 Architectural Coating - 2030**

**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	2.2935	1.2264	14.3364	0.0622	9.4552	0.0418	9.4970	2.5080	0.0384	2.5464		6,211.244 4	6,211.244 4	0.0848		6,213.363 7
<b>Total</b>	<b>2.2935</b>	<b>1.2264</b>	<b>14.3364</b>	<b>0.0622</b>	<b>9.4552</b>	<b>0.0418</b>	<b>9.4970</b>	<b>2.5080</b>	<b>0.0384</b>	<b>2.5464</b>		<b>6,211.244 4</b>	<b>6,211.244 4</b>	<b>0.0848</b>		<b>6,213.363 7</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	61.6480					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203	0.0000	281.4481	281.4481	0.0114		281.7328
<b>Total</b>	<b>61.7787</b>	<b>0.8563</b>	<b>1.7977</b>	<b>2.9700e-003</b>		<b>0.0203</b>	<b>0.0203</b>		<b>0.0203</b>	<b>0.0203</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0114</b>		<b>281.7328</b>

Union City GPU - Alameda County, Winter

**3.6 Architectural Coating - 2030**

**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	2.2935	1.2264	14.3364	0.0622	9.4552	0.0418	9.4970	2.5080	0.0384	2.5464		6,211.2444	6,211.2444	0.0848		6,213.3637
<b>Total</b>	<b>2.2935</b>	<b>1.2264</b>	<b>14.3364</b>	<b>0.0622</b>	<b>9.4552</b>	<b>0.0418</b>	<b>9.4970</b>	<b>2.5080</b>	<b>0.0384</b>	<b>2.5464</b>		<b>6,211.2444</b>	<b>6,211.2444</b>	<b>0.0848</b>		<b>6,213.3637</b>

**3.6 Architectural Coating - 2031**

**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	61.6480					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203		281.4481	281.4481	0.0114		281.7328
<b>Total</b>	<b>61.7787</b>	<b>0.8563</b>	<b>1.7977</b>	<b>2.9700e-003</b>		<b>0.0203</b>	<b>0.0203</b>		<b>0.0203</b>	<b>0.0203</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0114</b>		<b>281.7328</b>

Union City GPU - Alameda County, Winter

**3.6 Architectural Coating - 2031**

**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	2.1161	1.1259	13.4462	0.0608	9.4552	0.0390	9.4942	2.5080	0.0359	2.5438		6,065.855 2	6,065.855 2	0.0775		6,067.793 2
<b>Total</b>	<b>2.1161</b>	<b>1.1259</b>	<b>13.4462</b>	<b>0.0608</b>	<b>9.4552</b>	<b>0.0390</b>	<b>9.4942</b>	<b>2.5080</b>	<b>0.0359</b>	<b>2.5438</b>		<b>6,065.855 2</b>	<b>6,065.855 2</b>	<b>0.0775</b>		<b>6,067.793 2</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	61.6480					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203	0.0000	281.4481	281.4481	0.0114		281.7328
<b>Total</b>	<b>61.7787</b>	<b>0.8563</b>	<b>1.7977</b>	<b>2.9700e-003</b>		<b>0.0203</b>	<b>0.0203</b>		<b>0.0203</b>	<b>0.0203</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0114</b>		<b>281.7328</b>

Union City GPU - Alameda County, Winter

**3.6 Architectural Coating - 2031**

**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	2.1161	1.1259	13.4462	0.0608	9.4552	0.0390	9.4942	2.5080	0.0359	2.5438		6,065.855 2	6,065.855 2	0.0775		6,067.793 2
<b>Total</b>	<b>2.1161</b>	<b>1.1259</b>	<b>13.4462</b>	<b>0.0608</b>	<b>9.4552</b>	<b>0.0390</b>	<b>9.4942</b>	<b>2.5080</b>	<b>0.0359</b>	<b>2.5438</b>		<b>6,065.855 2</b>	<b>6,065.855 2</b>	<b>0.0775</b>		<b>6,067.793 2</b>

**3.6 Architectural Coating - 2032**

**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	61.6480					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203		281.4481	281.4481	0.0114		281.7328
<b>Total</b>	<b>61.7787</b>	<b>0.8563</b>	<b>1.7977</b>	<b>2.9700e-003</b>		<b>0.0203</b>	<b>0.0203</b>		<b>0.0203</b>	<b>0.0203</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0114</b>		<b>281.7328</b>

Union City GPU - Alameda County, Winter

**3.6 Architectural Coating - 2032**

**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	1.9631	1.0410	12.6742	0.0595	9.4552	0.0365	9.4917	2.5080	0.0335	2.5415		5,939.386 1	5,939.386 1	0.0713		5,941.168 7
<b>Total</b>	<b>1.9631</b>	<b>1.0410</b>	<b>12.6742</b>	<b>0.0595</b>	<b>9.4552</b>	<b>0.0365</b>	<b>9.4917</b>	<b>2.5080</b>	<b>0.0335</b>	<b>2.5415</b>		<b>5,939.386 1</b>	<b>5,939.386 1</b>	<b>0.0713</b>		<b>5,941.168 7</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	61.6480					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203	0.0000	281.4481	281.4481	0.0114		281.7328
<b>Total</b>	<b>61.7787</b>	<b>0.8563</b>	<b>1.7977</b>	<b>2.9700e-003</b>		<b>0.0203</b>	<b>0.0203</b>		<b>0.0203</b>	<b>0.0203</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0114</b>		<b>281.7328</b>



Union City GPU - Alameda County, Winter

**3.6 Architectural Coating - 2032**

**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	1.9631	1.0410	12.6742	0.0595	9.4552	0.0365	9.4917	2.5080	0.0335	2.5415		5,939.386 1	5,939.386 1	0.0713		5,941.168 7
<b>Total</b>	<b>1.9631</b>	<b>1.0410</b>	<b>12.6742</b>	<b>0.0595</b>	<b>9.4552</b>	<b>0.0365</b>	<b>9.4917</b>	<b>2.5080</b>	<b>0.0335</b>	<b>2.5415</b>		<b>5,939.386 1</b>	<b>5,939.386 1</b>	<b>0.0713</b>		<b>5,941.168 7</b>

**3.6 Architectural Coating - 2033**

**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	61.6480					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203		281.4481	281.4481	0.0114		281.7328
<b>Total</b>	<b>61.7787</b>	<b>0.8563</b>	<b>1.7977</b>	<b>2.9700e-003</b>		<b>0.0203</b>	<b>0.0203</b>		<b>0.0203</b>	<b>0.0203</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0114</b>		<b>281.7328</b>

Union City GPU - Alameda County, Winter

**3.6 Architectural Coating - 2033**

**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	1.8336	0.9698	12.0094	0.0584	9.4552	0.0341	9.4893	2.5080	0.0314	2.5394		5,830.1257	5,830.1257	0.0660		5,831.7760
<b>Total</b>	<b>1.8336</b>	<b>0.9698</b>	<b>12.0094</b>	<b>0.0584</b>	<b>9.4552</b>	<b>0.0341</b>	<b>9.4893</b>	<b>2.5080</b>	<b>0.0314</b>	<b>2.5394</b>		<b>5,830.1257</b>	<b>5,830.1257</b>	<b>0.0660</b>		<b>5,831.7760</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	61.6480					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203	0.0000	281.4481	281.4481	0.0114		281.7328
<b>Total</b>	<b>61.7787</b>	<b>0.8563</b>	<b>1.7977</b>	<b>2.9700e-003</b>		<b>0.0203</b>	<b>0.0203</b>		<b>0.0203</b>	<b>0.0203</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0114</b>		<b>281.7328</b>

Union City GPU - Alameda County, Winter

**3.6 Architectural Coating - 2033**

**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	1.8336	0.9698	12.0094	0.0584	9.4552	0.0341	9.4893	2.5080	0.0314	2.5394		5,830.1257	5,830.1257	0.0660		5,831.7760
<b>Total</b>	<b>1.8336</b>	<b>0.9698</b>	<b>12.0094</b>	<b>0.0584</b>	<b>9.4552</b>	<b>0.0341</b>	<b>9.4893</b>	<b>2.5080</b>	<b>0.0314</b>	<b>2.5394</b>		<b>5,830.1257</b>	<b>5,830.1257</b>	<b>0.0660</b>		<b>5,831.7760</b>

**3.6 Architectural Coating - 2034**

**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	61.6480					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203		281.4481	281.4481	0.0114		281.7328
<b>Total</b>	<b>61.7787</b>	<b>0.8563</b>	<b>1.7977</b>	<b>2.9700e-003</b>		<b>0.0203</b>	<b>0.0203</b>		<b>0.0203</b>	<b>0.0203</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0114</b>		<b>281.7328</b>

Union City GPU - Alameda County, Winter

**3.6 Architectural Coating - 2034**

**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	1.7224	0.9098	11.3849	0.0574	9.4552	0.0320	9.4872	2.5080	0.0294	2.5374		5,735.783 1	5,735.783 1	0.0611		5,737.3116
<b>Total</b>	<b>1.7224</b>	<b>0.9098</b>	<b>11.3849</b>	<b>0.0574</b>	<b>9.4552</b>	<b>0.0320</b>	<b>9.4872</b>	<b>2.5080</b>	<b>0.0294</b>	<b>2.5374</b>		<b>5,735.783 1</b>	<b>5,735.783 1</b>	<b>0.0611</b>		<b>5,737.311 6</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	61.6480					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203	0.0000	281.4481	281.4481	0.0114		281.7328
<b>Total</b>	<b>61.7787</b>	<b>0.8563</b>	<b>1.7977</b>	<b>2.9700e-003</b>		<b>0.0203</b>	<b>0.0203</b>		<b>0.0203</b>	<b>0.0203</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0114</b>		<b>281.7328</b>

Union City GPU - Alameda County, Winter

**3.6 Architectural Coating - 2034**

**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	1.7224	0.9098	11.3849	0.0574	9.4552	0.0320	9.4872	2.5080	0.0294	2.5374		5,735.783 1	5,735.783 1	0.0611		5,737.3116
<b>Total</b>	<b>1.7224</b>	<b>0.9098</b>	<b>11.3849</b>	<b>0.0574</b>	<b>9.4552</b>	<b>0.0320</b>	<b>9.4872</b>	<b>2.5080</b>	<b>0.0294</b>	<b>2.5374</b>		<b>5,735.783 1</b>	<b>5,735.783 1</b>	<b>0.0611</b>		<b>5,737.311 6</b>

**3.6 Architectural Coating - 2035**

**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	61.6480					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1179	0.7577	1.7943	2.9700e-003		9.9000e-003	9.9000e-003		9.9000e-003	9.9000e-003		281.4481	281.4481	0.0104		281.7081
<b>Total</b>	<b>61.7659</b>	<b>0.7577</b>	<b>1.7943</b>	<b>2.9700e-003</b>		<b>9.9000e-003</b>	<b>9.9000e-003</b>		<b>9.9000e-003</b>	<b>9.9000e-003</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0104</b>		<b>281.7081</b>

Union City GPU - Alameda County, Winter

**3.6 Architectural Coating - 2035**

**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	1.6255	0.8625	10.8460	0.0566	9.4552	0.0300	9.4852	2.5080	0.0276	2.5356		5,655.4406	5,655.4406	0.0570		5,656.8651
<b>Total</b>	<b>1.6255</b>	<b>0.8625</b>	<b>10.8460</b>	<b>0.0566</b>	<b>9.4552</b>	<b>0.0300</b>	<b>9.4852</b>	<b>2.5080</b>	<b>0.0276</b>	<b>2.5356</b>		<b>5,655.4406</b>	<b>5,655.4406</b>	<b>0.0570</b>		<b>5,656.8651</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	61.6480					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1179	0.7577	1.7943	2.9700e-003		9.9000e-003	9.9000e-003		9.9000e-003	9.9000e-003	0.0000	281.4481	281.4481	0.0104		281.7081
<b>Total</b>	<b>61.7659</b>	<b>0.7577</b>	<b>1.7943</b>	<b>2.9700e-003</b>		<b>9.9000e-003</b>	<b>9.9000e-003</b>		<b>9.9000e-003</b>	<b>9.9000e-003</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0104</b>		<b>281.7081</b>

Union City GPU - Alameda County, Winter

**3.6 Architectural Coating - 2035**

**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	1.6255	0.8625	10.8460	0.0566	9.4552	0.0300	9.4852	2.5080	0.0276	2.5356		5,655.4406	5,655.4406	0.0570		5,656.8651
<b>Total</b>	<b>1.6255</b>	<b>0.8625</b>	<b>10.8460</b>	<b>0.0566</b>	<b>9.4552</b>	<b>0.0300</b>	<b>9.4852</b>	<b>2.5080</b>	<b>0.0276</b>	<b>2.5356</b>		<b>5,655.4406</b>	<b>5,655.4406</b>	<b>0.0570</b>		<b>5,656.8651</b>

**3.6 Architectural Coating - 2036**

**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	61.6480					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1179	0.7577	1.7943	2.9700e-003		9.9000e-003	9.9000e-003		9.9000e-003	9.9000e-003		281.4481	281.4481	0.0104		281.7081
<b>Total</b>	<b>61.7659</b>	<b>0.7577</b>	<b>1.7943</b>	<b>2.9700e-003</b>		<b>9.9000e-003</b>	<b>9.9000e-003</b>		<b>9.9000e-003</b>	<b>9.9000e-003</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0104</b>		<b>281.7081</b>

Union City GPU - Alameda County, Winter

**3.6 Architectural Coating - 2036**

**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	1.6255	0.8625	10.8460	0.0566	9.4552	0.0300	9.4852	2.5080	0.0276	2.5356		5,655.4406	5,655.4406	0.0570		5,656.8651
<b>Total</b>	<b>1.6255</b>	<b>0.8625</b>	<b>10.8460</b>	<b>0.0566</b>	<b>9.4552</b>	<b>0.0300</b>	<b>9.4852</b>	<b>2.5080</b>	<b>0.0276</b>	<b>2.5356</b>		<b>5,655.4406</b>	<b>5,655.4406</b>	<b>0.0570</b>		<b>5,656.8651</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	61.6480					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1179	0.7577	1.7943	2.9700e-003		9.9000e-003	9.9000e-003		9.9000e-003	9.9000e-003	0.0000	281.4481	281.4481	0.0104		281.7081
<b>Total</b>	<b>61.7659</b>	<b>0.7577</b>	<b>1.7943</b>	<b>2.9700e-003</b>		<b>9.9000e-003</b>	<b>9.9000e-003</b>		<b>9.9000e-003</b>	<b>9.9000e-003</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0104</b>		<b>281.7081</b>



Union City GPU - Alameda County, Winter

**3.6 Architectural Coating - 2036**

**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	1.6255	0.8625	10.8460	0.0566	9.4552	0.0300	9.4852	2.5080	0.0276	2.5356		5,655.4406	5,655.4406	0.0570		5,656.8651
<b>Total</b>	<b>1.6255</b>	<b>0.8625</b>	<b>10.8460</b>	<b>0.0566</b>	<b>9.4552</b>	<b>0.0300</b>	<b>9.4852</b>	<b>2.5080</b>	<b>0.0276</b>	<b>2.5356</b>		<b>5,655.4406</b>	<b>5,655.4406</b>	<b>0.0570</b>		<b>5,656.8651</b>

**3.6 Architectural Coating - 2037**

**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	61.6480					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1179	0.7577	1.7943	2.9700e-003		9.9000e-003	9.9000e-003		9.9000e-003	9.9000e-003		281.4481	281.4481	0.0104		281.7081
<b>Total</b>	<b>61.7659</b>	<b>0.7577</b>	<b>1.7943</b>	<b>2.9700e-003</b>		<b>9.9000e-003</b>	<b>9.9000e-003</b>		<b>9.9000e-003</b>	<b>9.9000e-003</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0104</b>		<b>281.7081</b>

Union City GPU - Alameda County, Winter

**3.6 Architectural Coating - 2037**

**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	1.6255	0.8625	10.8460	0.0566	9.4552	0.0300	9.4852	2.5080	0.0276	2.5356		5,655.4406	5,655.4406	0.0570		5,656.8651
<b>Total</b>	<b>1.6255</b>	<b>0.8625</b>	<b>10.8460</b>	<b>0.0566</b>	<b>9.4552</b>	<b>0.0300</b>	<b>9.4852</b>	<b>2.5080</b>	<b>0.0276</b>	<b>2.5356</b>		<b>5,655.4406</b>	<b>5,655.4406</b>	<b>0.0570</b>		<b>5,656.8651</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	61.6480					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1179	0.7577	1.7943	2.9700e-003		9.9000e-003	9.9000e-003		9.9000e-003	9.9000e-003	0.0000	281.4481	281.4481	0.0104		281.7081
<b>Total</b>	<b>61.7659</b>	<b>0.7577</b>	<b>1.7943</b>	<b>2.9700e-003</b>		<b>9.9000e-003</b>	<b>9.9000e-003</b>		<b>9.9000e-003</b>	<b>9.9000e-003</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0104</b>		<b>281.7081</b>

Union City GPU - Alameda County, Winter

**3.6 Architectural Coating - 2037**

**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	1.6255	0.8625	10.8460	0.0566	9.4552	0.0300	9.4852	2.5080	0.0276	2.5356		5,655.4406	5,655.4406	0.0570		5,656.8651
<b>Total</b>	<b>1.6255</b>	<b>0.8625</b>	<b>10.8460</b>	<b>0.0566</b>	<b>9.4552</b>	<b>0.0300</b>	<b>9.4852</b>	<b>2.5080</b>	<b>0.0276</b>	<b>2.5356</b>		<b>5,655.4406</b>	<b>5,655.4406</b>	<b>0.0570</b>		<b>5,656.8651</b>

**3.6 Architectural Coating - 2038**

**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	61.6480					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1179	0.7577	1.7943	2.9700e-003		9.9000e-003	9.9000e-003		9.9000e-003	9.9000e-003		281.4481	281.4481	0.0104		281.7081
<b>Total</b>	<b>61.7659</b>	<b>0.7577</b>	<b>1.7943</b>	<b>2.9700e-003</b>		<b>9.9000e-003</b>	<b>9.9000e-003</b>		<b>9.9000e-003</b>	<b>9.9000e-003</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0104</b>		<b>281.7081</b>

Union City GPU - Alameda County, Winter

**3.6 Architectural Coating - 2038**

**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	1.6255	0.8625	10.8460	0.0566	9.4552	0.0300	9.4852	2.5080	0.0276	2.5356		5,655.4406	5,655.4406	0.0570		5,656.8651
<b>Total</b>	<b>1.6255</b>	<b>0.8625</b>	<b>10.8460</b>	<b>0.0566</b>	<b>9.4552</b>	<b>0.0300</b>	<b>9.4852</b>	<b>2.5080</b>	<b>0.0276</b>	<b>2.5356</b>		<b>5,655.4406</b>	<b>5,655.4406</b>	<b>0.0570</b>		<b>5,656.8651</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	61.6480					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1179	0.7577	1.7943	2.9700e-003		9.9000e-003	9.9000e-003		9.9000e-003	9.9000e-003	0.0000	281.4481	281.4481	0.0104		281.7081
<b>Total</b>	<b>61.7659</b>	<b>0.7577</b>	<b>1.7943</b>	<b>2.9700e-003</b>		<b>9.9000e-003</b>	<b>9.9000e-003</b>		<b>9.9000e-003</b>	<b>9.9000e-003</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0104</b>		<b>281.7081</b>

Union City GPU - Alameda County, Winter

**3.6 Architectural Coating - 2038**

**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	1.6255	0.8625	10.8460	0.0566	9.4552	0.0300	9.4852	2.5080	0.0276	2.5356		5,655.4406	5,655.4406	0.0570		5,656.8651
<b>Total</b>	<b>1.6255</b>	<b>0.8625</b>	<b>10.8460</b>	<b>0.0566</b>	<b>9.4552</b>	<b>0.0300</b>	<b>9.4852</b>	<b>2.5080</b>	<b>0.0276</b>	<b>2.5356</b>		<b>5,655.4406</b>	<b>5,655.4406</b>	<b>0.0570</b>		<b>5,656.8651</b>

**3.6 Architectural Coating - 2039**

**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	61.6480					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1179	0.7577	1.7943	2.9700e-003		9.9000e-003	9.9000e-003		9.9000e-003	9.9000e-003		281.4481	281.4481	0.0104		281.7081
<b>Total</b>	<b>61.7659</b>	<b>0.7577</b>	<b>1.7943</b>	<b>2.9700e-003</b>		<b>9.9000e-003</b>	<b>9.9000e-003</b>		<b>9.9000e-003</b>	<b>9.9000e-003</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0104</b>		<b>281.7081</b>

Union City GPU - Alameda County, Winter

**3.6 Architectural Coating - 2039**

**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	1.6255	0.8625	10.8460	0.0566	9.4552	0.0300	9.4852	2.5080	0.0276	2.5356		5,655.4406	5,655.4406	0.0570		5,656.8651
<b>Total</b>	<b>1.6255</b>	<b>0.8625</b>	<b>10.8460</b>	<b>0.0566</b>	<b>9.4552</b>	<b>0.0300</b>	<b>9.4852</b>	<b>2.5080</b>	<b>0.0276</b>	<b>2.5356</b>		<b>5,655.4406</b>	<b>5,655.4406</b>	<b>0.0570</b>		<b>5,656.8651</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	61.6480					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1179	0.7577	1.7943	2.9700e-003		9.9000e-003	9.9000e-003		9.9000e-003	9.9000e-003	0.0000	281.4481	281.4481	0.0104		281.7081
<b>Total</b>	<b>61.7659</b>	<b>0.7577</b>	<b>1.7943</b>	<b>2.9700e-003</b>		<b>9.9000e-003</b>	<b>9.9000e-003</b>		<b>9.9000e-003</b>	<b>9.9000e-003</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0104</b>		<b>281.7081</b>

Union City GPU - Alameda County, Winter

**3.6 Architectural Coating - 2039**

**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	1.6255	0.8625	10.8460	0.0566	9.4552	0.0300	9.4852	2.5080	0.0276	2.5356		5,655.4406	5,655.4406	0.0570		5,656.8651
<b>Total</b>	<b>1.6255</b>	<b>0.8625</b>	<b>10.8460</b>	<b>0.0566</b>	<b>9.4552</b>	<b>0.0300</b>	<b>9.4852</b>	<b>2.5080</b>	<b>0.0276</b>	<b>2.5356</b>		<b>5,655.4406</b>	<b>5,655.4406</b>	<b>0.0570</b>		<b>5,656.8651</b>

**3.7 Paving - 2038**

**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	1.1405	4.8761	15.8203	0.0281		0.1874	0.1874		0.1874	0.1874		2,656.5168	2,656.5168	0.1022		2,659.0727
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.1405</b>	<b>4.8761</b>	<b>15.8203</b>	<b>0.0281</b>		<b>0.1874</b>	<b>0.1874</b>		<b>0.1874</b>	<b>0.1874</b>		<b>2,656.5168</b>	<b>2,656.5168</b>	<b>0.1022</b>		<b>2,659.0727</b>

Union City GPU - Alameda County, Winter

**3.7 Paving - 2038**

**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	0.0212	0.0112	0.1414	7.4000e-004	0.1232	3.9000e-004	0.1236	0.0327	3.6000e-004	0.0330		73.7025	73.7025	7.4000e-004		73.7211
<b>Total</b>	<b>0.0212</b>	<b>0.0112</b>	<b>0.1414</b>	<b>7.4000e-004</b>	<b>0.1232</b>	<b>3.9000e-004</b>	<b>0.1236</b>	<b>0.0327</b>	<b>3.6000e-004</b>	<b>0.0330</b>		<b>73.7025</b>	<b>73.7025</b>	<b>7.4000e-004</b>		<b>73.7211</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1405	4.8761	15.8203	0.0281		0.1874	0.1874		0.1874	0.1874	0.0000	2,656.5168	2,656.5168	0.1022		2,659.0726
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.1405</b>	<b>4.8761</b>	<b>15.8203</b>	<b>0.0281</b>		<b>0.1874</b>	<b>0.1874</b>		<b>0.1874</b>	<b>0.1874</b>	<b>0.0000</b>	<b>2,656.5168</b>	<b>2,656.5168</b>	<b>0.1022</b>		<b>2,659.0726</b>



Union City GPU - Alameda County, Winter

**3.7 Paving - 2038**

**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	0.0212	0.0112	0.1414	7.4000e-004	0.1232	3.9000e-004	0.1236	0.0327	3.6000e-004	0.0330		73.7025	73.7025	7.4000e-004		73.7211
<b>Total</b>	<b>0.0212</b>	<b>0.0112</b>	<b>0.1414</b>	<b>7.4000e-004</b>	<b>0.1232</b>	<b>3.9000e-004</b>	<b>0.1236</b>	<b>0.0327</b>	<b>3.6000e-004</b>	<b>0.0330</b>		<b>73.7025</b>	<b>73.7025</b>	<b>7.4000e-004</b>		<b>73.7211</b>

**3.7 Paving - 2039**

**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	1.1405	4.8761	15.8203	0.0281		0.1874	0.1874		0.1874	0.1874		2,656.5168	2,656.5168	0.1022		2,659.0727
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.1405</b>	<b>4.8761</b>	<b>15.8203</b>	<b>0.0281</b>		<b>0.1874</b>	<b>0.1874</b>		<b>0.1874</b>	<b>0.1874</b>		<b>2,656.5168</b>	<b>2,656.5168</b>	<b>0.1022</b>		<b>2,659.0727</b>

Union City GPU - Alameda County, Winter

**3.7 Paving - 2039**

**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	0.0212	0.0112	0.1414	7.4000e-004	0.1232	3.9000e-004	0.1236	0.0327	3.6000e-004	0.0330		73.7025	73.7025	7.4000e-004		73.7211
<b>Total</b>	<b>0.0212</b>	<b>0.0112</b>	<b>0.1414</b>	<b>7.4000e-004</b>	<b>0.1232</b>	<b>3.9000e-004</b>	<b>0.1236</b>	<b>0.0327</b>	<b>3.6000e-004</b>	<b>0.0330</b>		<b>73.7025</b>	<b>73.7025</b>	<b>7.4000e-004</b>		<b>73.7211</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1405	4.8761	15.8203	0.0281		0.1874	0.1874		0.1874	0.1874	0.0000	2,656.5168	2,656.5168	0.1022		2,659.0726
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.1405</b>	<b>4.8761</b>	<b>15.8203</b>	<b>0.0281</b>		<b>0.1874</b>	<b>0.1874</b>		<b>0.1874</b>	<b>0.1874</b>	<b>0.0000</b>	<b>2,656.5168</b>	<b>2,656.5168</b>	<b>0.1022</b>		<b>2,659.0726</b>

Union City GPU - Alameda County, Winter

**3.7 Paving - 2039**

**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	0.0212	0.0112	0.1414	7.4000e-004	0.1232	3.9000e-004	0.1236	0.0327	3.6000e-004	0.0330		73.7025	73.7025	7.4000e-004		73.7211
<b>Total</b>	<b>0.0212</b>	<b>0.0112</b>	<b>0.1414</b>	<b>7.4000e-004</b>	<b>0.1232</b>	<b>3.9000e-004</b>	<b>0.1236</b>	<b>0.0327</b>	<b>3.6000e-004</b>	<b>0.0330</b>		<b>73.7025</b>	<b>73.7025</b>	<b>7.4000e-004</b>		<b>73.7211</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

Union City GPU - Alameda County, Winter

	ROG	NOx	CO	SO2	Fugitive 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	24.5643	210.3240	377.9939	2.5869	291.1213	1.0732	292.1945	77.9573	1.0050	78.9623		265,226.6131	265,226.6131	7.1810		265,406.1386
Unmitigated	24.5643	210.3240	377.9939	2.5869	291.1213	1.0732	292.1945	77.9573	1.0050	78.9623		265,226.6131	265,226.6131	7.1810		265,406.1386

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	3,886.00	3,886.00	3886.00	20,510,308	20,510,308
General Office Building	7,797.68	7,797.68	7797.68	28,639,007	28,639,007
Manufacturing	1,947.47	1,947.47	1947.47	17,367,493	17,367,493
Single Family Housing	399.60	399.60	399.60	3,556,360	3,556,360
Strip Mall	9.50	9.50	9.50	2,720,814	2,720,814
Supermarket	2,101.92	2,101.92	2101.92	63,656,154	63,656,154
Total	16,142.16	16,142.16	16,142.16	136,450,137	136,450,137

4.3 Trip Type Information

Union City GPU - Alameda County, Winter

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	14.50	14.50	14.50	100.00	0.00	0.00	100	0	0
General Office Building	10.09	10.09	10.09	0.00	100.00	0.00	100	0	0
Manufacturing	24.50	24.50	24.50	0.00	100.00	0.00	100	0	0
Single Family Housing	24.45	24.45	24.45	100.00	0.00	0.00	100	0	0
Strip Mall	786.66	786.66	786.66	0.00	100.00	0.00	100	0	0
Supermarket	83.20	83.20	83.20	0.00	100.00	0.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.564354	0.034948	0.188156	0.101714	0.011079	0.005040	0.028641	0.055840	0.002376	0.001564	0.005216	0.000439	0.000633
General Office Building	0.564354	0.034948	0.188156	0.101714	0.011079	0.005040	0.028641	0.055840	0.002376	0.001564	0.005216	0.000439	0.000633
Manufacturing	0.564354	0.034948	0.188156	0.101714	0.011079	0.005040	0.028641	0.055840	0.002376	0.001564	0.005216	0.000439	0.000633
Single Family Housing	0.564354	0.034948	0.188156	0.101714	0.011079	0.005040	0.028641	0.055840	0.002376	0.001564	0.005216	0.000439	0.000633
Strip Mall	0.564354	0.034948	0.188156	0.101714	0.011079	0.005040	0.028641	0.055840	0.002376	0.001564	0.005216	0.000439	0.000633
Supermarket	0.564354	0.034948	0.188156	0.101714	0.011079	0.005040	0.028641	0.055840	0.002376	0.001564	0.005216	0.000439	0.000633

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Union City GPU - Alameda County, Winter

	ROG	NOx	CO	SO2	Fugitive 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	6.6574	59.6720	44.6077	0.3631		4.5996	4.5996		4.5996	4.5996		72,625.9685	72,625.9685	1.3920	1.3315	73,057.5483
NaturalGas Unmitigated	6.6574	59.6720	44.6077	0.3631		4.5996	4.5996		4.5996	4.5996		72,625.9685	72,625.9685	1.3920	1.3315	73,057.5483

Union City GPU - Alameda County, Winter

**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					
Apartments Mid Rise	92949.2	1.0024	8.5659	3.6451	0.0547		0.6926	0.6926		0.6926	0.6926		10,935.1977	10,935.1977	0.2096	0.2005	11,000.1802
General Office Building	206478	2.2267	20.2430	17.0041	0.1215		1.5385	1.5385		1.5385	1.5385		24,291.5577	24,291.5577	0.4656	0.4454	24,435.9103
Manufacturing	146727	1.5824	14.3850	12.0834	0.0863		1.0933	1.0933		1.0933	1.0933		17,261.9862	17,261.9862	0.3309	0.3165	17,364.5656
Single Family Housing	51484.2	0.5552	4.7446	2.0190	0.0303		0.3836	0.3836		0.3836	0.3836		6,056.9700	6,056.9700	0.1161	0.1110	6,092.9636
Strip Mall	11974.9	0.1291	1.1740	0.9862	7.0400e-003		0.0892	0.0892		0.0892	0.0892		1,408.8173	1,408.8173	0.0270	0.0258	1,417.1892
Supermarket	107707	1.1616	10.5595	8.8700	0.0634		0.8025	0.8025		0.8025	0.8025		12,671.4395	12,671.4395	0.2429	0.2323	12,746.7396
<b>Total</b>		<b>6.6574</b>	<b>59.6720</b>	<b>44.6077</b>	<b>0.3631</b>		<b>4.5997</b>	<b>4.5997</b>		<b>4.5997</b>	<b>4.5997</b>		<b>72,625.9685</b>	<b>72,625.9685</b>	<b>1.3920</b>	<b>1.3315</b>	<b>73,057.5483</b>

Union City GPU - Alameda County, Winter

**5.2 Energy by Land Use - NaturalGas**

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	92.9492	1.0024	8.5659	3.6451	0.0547		0.6926	0.6926		0.6926	0.6926		10,935.1977	10,935.1977	0.2096	0.2005	11,000.1802
General Office Building	206.478	2.2267	20.2430	17.0041	0.1215		1.5385	1.5385		1.5385	1.5385		24,291.5577	24,291.5577	0.4656	0.4454	24,435.9103
Manufacturing	146.727	1.5824	14.3850	12.0834	0.0863		1.0933	1.0933		1.0933	1.0933		17,261.9862	17,261.9862	0.3309	0.3165	17,364.5656
Single Family Housing	51.4842	0.5552	4.7446	2.0190	0.0303		0.3836	0.3836		0.3836	0.3836		6,056.9700	6,056.9700	0.1161	0.1110	6,092.9636
Strip Mall	11.9749	0.1291	1.1740	0.9862	7.0400e-003		0.0892	0.0892		0.0892	0.0892		1,408.8173	1,408.8173	0.0270	0.0258	1,417.1892
Supermarket	107.707	1.1616	10.5595	8.8700	0.0634		0.8025	0.8025		0.8025	0.8025		12,671.4395	12,671.4395	0.2429	0.2323	12,746.7396
<b>Total</b>		<b>6.6574</b>	<b>59.6720</b>	<b>44.6077</b>	<b>0.3631</b>		<b>4.5997</b>	<b>4.5997</b>		<b>4.5997</b>	<b>4.5997</b>		<b>72,625.9685</b>	<b>72,625.9685</b>	<b>1.3920</b>	<b>1.3315</b>	<b>73,057.5483</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**



Union City GPU - Alameda County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	2,383.063 2	48.3030	3,063.048 9	5.2076		385.8880	385.8880		385.8880	385.8880	41,577.09 08	17,788.40 92	59,365.50 00	56.3186	2.9377	61,648.90 20
Unmitigated	2,383.063 2	48.3030	3,063.048 9	5.2076		385.8880	385.8880		385.8880	385.8880	41,577.09 08	17,788.40 92	59,365.50 00	56.3186	2.9377	61,648.90 20

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	41.1268					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	272.9423					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	2,058.281 7	44.1904	2,706.569 1	5.1886		383.9040	383.9040		383.9040	383.9040	41,577.09 08	17,143.411 8	58,720.50 25	55.7018	2.9377	60,988.48 46
Landscaping	10.7124	4.1126	356.4798	0.0189		1.9839	1.9839		1.9839	1.9839		644.9974	644.9974	0.6168		660.4174
<b>Total</b>	<b>2,383.063 2</b>	<b>48.3030</b>	<b>3,063.048 9</b>	<b>5.2076</b>		<b>385.8880</b>	<b>385.8880</b>		<b>385.8880</b>	<b>385.8880</b>	<b>41,577.09 08</b>	<b>17,788.40 92</b>	<b>59,365.50 00</b>	<b>56.3186</b>	<b>2.9377</b>	<b>61,648.90 20</b>

Union City GPU - Alameda County, Winter

**6.2 Area by SubCategory**

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	41.1268					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	272.9423					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	2,058.2817	44.1904	2,706.5691	5.1886		383.9040	383.9040		383.9040	383.9040	41,577.0908	17,143.4118	58,720.5025	55.7018	2.9377	60,988.4846
Landscaping	10.7124	4.1126	356.4798	0.0189		1.9839	1.9839		1.9839	1.9839		644.9974	644.9974	0.6168		660.4174
<b>Total</b>	<b>2,383.0632</b>	<b>48.3030</b>	<b>3,063.0489</b>	<b>5.2076</b>		<b>385.8880</b>	<b>385.8880</b>		<b>385.8880</b>	<b>385.8880</b>	<b>41,577.0908</b>	<b>17,788.4092</b>	<b>59,365.5000</b>	<b>56.3186</b>	<b>2.9377</b>	<b>61,648.9020</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

Use Water Efficient Irrigation System

**8.0 Waste Detail**

**8.1 Mitigation Measures Waste**

Institute Recycling and Composting Services

**9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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## Union City GPU - Alameda County, Winter

**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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**11.0 Vegetation**

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## Union City GPU - Alameda County, Summer

**Union City GPU**  
**Alameda County, Summer**

**1.0 Project Characteristics****1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	3,898.84	1000sqft	89.51	3,898,839.00	0
Manufacturing	2,163.85	1000sqft	49.68	2,163,851.00	0
Apartments Mid Rise	3,886.00	Dwelling Unit	102.26	3,886,000.00	11114
Single Family Housing	444.00	Dwelling Unit	144.16	799,200.00	1270
Strip Mall	950.19	1000sqft	21.81	950,186.00	0
Supermarket	1,056.24	1000sqft	24.25	1,056,237.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	63
<b>Climate Zone</b>	5			<b>Operational Year</b>	2040
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	641.35	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

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

Union City GPU - Alameda County, Summer

Project Characteristics -

Land Use - Retail and Service land uses are included together under Retail, Strip Mall category.

Construction Phase - Construction schedule adjusted to be complete in 2040.

Vehicle Trips - Trip generation rate factors adjusted to reflect Daily & Annual VMT provided in Transportation Impact Analysis (Mintier Harnish 2018).

Construction Off-road Equipment Mitigation - Applied relevant factors for compliance with "BAAQMD Basic Construction Mitigation Measures."

Mobile Land Use Mitigation -

Water Mitigation - CAP Measure WC-1.1

Waste Mitigation - CAP Measure WR-1.1, adjusted for AB 939

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	500.00	263.00
tblConstructionPhase	NumDays	300.00	158.00
tblConstructionPhase	NumDays	775.00	407.00
tblConstructionPhase	NumDays	7,750.00	4,069.00
tblConstructionPhase	NumDays	550.00	2,435.00
tblConstructionPhase	NumDays	550.00	289.00
tblGrading	AcresOfGrading	1,017.50	1,937.50
tblLandUse	LandUseSquareFeet	3,898,840.00	3,898,839.00
tblLandUse	LandUseSquareFeet	2,163,850.00	2,163,851.00
tblLandUse	LandUseSquareFeet	950,190.00	950,186.00
tblLandUse	LandUseSquareFeet	1,056,240.00	1,056,237.00
tblVehicleTrips	CC_TL	7.30	10.09
tblVehicleTrips	CC_TL	7.30	24.50
tblVehicleTrips	CC_TL	7.30	786.66
tblVehicleTrips	CC_TL	7.30	83.20
tblVehicleTrips	CC_TTP	48.00	100.00

## Union City GPU - Alameda County, Summer

tblVehicleTrips	CC_TTP	28.00	100.00
tblVehicleTrips	CC_TTP	64.40	100.00
tblVehicleTrips	CC_TTP	74.50	100.00
tblVehicleTrips	CNW_TL	7.30	10.09
tblVehicleTrips	CNW_TL	7.30	24.50
tblVehicleTrips	CNW_TL	7.30	786.66
tblVehicleTrips	CNW_TL	7.30	83.20
tblVehicleTrips	CNW_TTP	19.00	0.00
tblVehicleTrips	CNW_TTP	13.00	0.00
tblVehicleTrips	CNW_TTP	19.00	0.00
tblVehicleTrips	CNW_TTP	19.00	0.00
tblVehicleTrips	CW_TL	9.50	10.09
tblVehicleTrips	CW_TL	9.50	24.50
tblVehicleTrips	CW_TL	9.50	786.66
tblVehicleTrips	CW_TL	9.50	83.20
tblVehicleTrips	CW_TTP	33.00	0.00
tblVehicleTrips	CW_TTP	59.00	0.00
tblVehicleTrips	CW_TTP	16.60	0.00
tblVehicleTrips	CW_TTP	6.50	0.00
tblVehicleTrips	DV_TP	11.00	0.00
tblVehicleTrips	DV_TP	19.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	DV_TP	11.00	0.00
tblVehicleTrips	DV_TP	40.00	0.00
tblVehicleTrips	DV_TP	30.00	0.00
tblVehicleTrips	HO_TL	5.70	14.50
tblVehicleTrips	HO_TL	5.70	24.45

## Union City GPU - Alameda County, Summer

tblVehicleTrips	HO_TTP	54.00	0.00
tblVehicleTrips	HO_TTP	54.00	0.00
tblVehicleTrips	HS_TL	4.80	14.50
tblVehicleTrips	HS_TL	4.80	24.45
tblVehicleTrips	HS_TTP	15.00	0.00
tblVehicleTrips	HS_TTP	15.00	0.00
tblVehicleTrips	HW_TL	10.80	14.50
tblVehicleTrips	HW_TL	10.80	24.45
tblVehicleTrips	HW_TTP	31.00	100.00
tblVehicleTrips	HW_TTP	31.00	100.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	4.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	15.00	0.00
tblVehicleTrips	PB_TP	36.00	0.00
tblVehicleTrips	PR_TP	86.00	100.00
tblVehicleTrips	PR_TP	77.00	100.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	PR_TP	86.00	100.00
tblVehicleTrips	PR_TP	45.00	100.00
tblVehicleTrips	PR_TP	34.00	100.00
tblVehicleTrips	ST_TR	6.39	1.00
tblVehicleTrips	ST_TR	2.46	2.00
tblVehicleTrips	ST_TR	1.49	0.90
tblVehicleTrips	ST_TR	9.91	0.90
tblVehicleTrips	ST_TR	42.04	0.01

Union City GPU - Alameda County, Summer

tblVehicleTrips	ST_TR	177.59	1.99
tblVehicleTrips	SU_TR	5.86	1.00
tblVehicleTrips	SU_TR	1.05	2.00
tblVehicleTrips	SU_TR	0.62	0.90
tblVehicleTrips	SU_TR	8.62	0.90
tblVehicleTrips	SU_TR	20.43	0.01
tblVehicleTrips	SU_TR	166.44	1.99
tblVehicleTrips	WD_TR	6.65	1.00
tblVehicleTrips	WD_TR	11.03	2.00
tblVehicleTrips	WD_TR	3.82	0.90
tblVehicleTrips	WD_TR	9.52	0.90
tblVehicleTrips	WD_TR	44.32	0.01
tblVehicleTrips	WD_TR	102.24	1.99
tblWaterMitigation	UseWaterEfficientIrrigationSystemPercentReduction	6.1	50

**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					
2019	3.5734	35.8212	22.5355	0.0401	0.1232	1.7958	1.9190	0.0327	1.6704	1.7031	0.0000	3,946.1977	3,946.1977	1.0655	0.0000	3,972.8347
2020	4.1423	42.4579	22.1811	0.0401	18.2141	2.1984	20.4125	9.9699	2.0225	11.9924	0.0000	3,873.0092	3,873.0092	1.1957	0.0000	3,899.5381



Union City GPU - Alameda County, Summer

	ROG	NOx	CO	SO2	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	4.2587	46.4400	31.3994	0.0636	18.2141	2.0454	20.2595	9.9699	1.8818	11.8517	0.0000	6,168.3190	6,168.3190	1.9466	0.0000	6,216.9847
2022	24.7949	205.6655	189.2058	0.9645	59.3794	1.6359	60.8261	16.0246	1.5051	17.3851	0.0000	98,918.9690	98,918.9690	4.1891	0.0000	99,023.6954
2023	22.0489	163.0748	173.6213	0.9329	59.3797	1.1374	60.5171	16.0247	1.0667	17.0914	0.0000	95,732.8106	95,732.8106	3.5657	0.0000	95,821.9518
2024	20.7412	160.2238	162.7811	0.9122	59.3800	1.0433	60.4233	16.0248	0.9779	17.0027	0.0000	93,674.6384	93,674.6384	3.4488	0.0000	93,760.8576
2025	19.6055	157.3793	152.9422	0.8920	59.3803	0.9512	60.3315	16.0249	0.8913	16.9162	0.0000	91,656.6571	91,656.6571	3.3420	0.0000	91,740.2081
2026	18.7173	155.6589	144.7370	0.8742	59.3805	0.9411	60.3216	16.0250	0.8819	16.9069	0.0000	89,887.1887	89,887.1887	3.2521	0.0000	89,968.4916
2027	17.8771	153.9654	137.5041	0.8584	59.3808	0.9249	60.3057	16.0251	0.8669	16.8919	0.0000	88,310.2957	88,310.2957	3.1737	0.0000	88,389.6370
2028	17.0225	152.6170	131.1604	0.8446	59.3810	0.9050	60.2860	16.0251	0.8485	16.8736	0.0000	86,937.1632	86,937.1632	3.1012	0.0000	87,014.6944
2029	16.1349	150.8913	125.1315	0.8317	59.3812	0.8864	60.2675	16.0252	0.8312	16.8564	0.0000	85,653.1593	85,653.1593	3.0431	0.0000	85,729.2356
2030	79.1527	146.9311	137.3639	0.8953	68.8366	0.5522	69.3888	18.5332	0.5262	19.0595	0.0000	91,934.1988	91,934.1988	2.6072	0.0000	91,999.3777
2031	78.0981	145.8221	131.4932	0.8844	68.8367	0.5342	69.3709	18.5333	0.5097	19.0429	0.0000	90,848.9859	90,848.9859	2.5502	0.0000	90,912.7415
2032	77.1882	144.9052	126.4419	0.8752	68.8369	0.5178	69.3547	18.5333	0.4945	19.0278	0.0000	89,933.4714	89,933.4714	2.5024	0.0000	89,996.0322
2033	76.4177	144.1258	122.1001	0.8673	68.8370	0.5029	69.3399	18.5334	0.4808	19.0142	0.0000	89,154.2298	89,154.2298	2.4634	0.0000	89,215.8138
2034	75.7444	143.4528	118.0171	0.8607	68.8371	0.4890	69.3261	18.5334	0.4679	19.0014	0.0000	88,493.7867	88,493.7867	2.4282	0.0000	88,554.4912
2035	75.0499	142.0028	114.4485	0.8550	68.8372	0.4082	69.2454	18.5335	0.3881	18.9216	0.0000	87,936.9592	87,936.9592	2.3891	0.0000	87,996.6872
2036	75.0499	142.0028	114.4485	0.8550	68.8372	0.4082	69.2454	18.5335	0.3881	18.9216	0.0000	87,936.9592	87,936.9592	2.3891	0.0000	87,996.6872
2037	75.0499	142.0028	114.4485	0.8550	68.8372	0.4082	69.2454	18.5335	0.3881	18.9216	0.0000	87,936.9592	87,936.9592	2.3891	0.0000	87,996.6872
2038	75.0499	142.0028	114.4485	0.8550	68.8372	0.4082	69.2454	18.5335	0.3881	18.9216	0.0000	87,936.9592	87,936.9592	2.3891	0.0000	87,996.6872

Union City GPU - Alameda County, Summer

	ROG	NOx	CO	SO2	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					
2039	64.4264	6.3405	29.8003	0.0934	9.5784	0.2277	9.8061	2.5406	0.2253	2.7659	0.0000	9,167.3559	9,167.3559	0.1766	0.0000	9,171.7695
<b>Maximum</b>	<b>79.1527</b>	<b>205.6655</b>	<b>189.2058</b>	<b>0.9645</b>	<b>68.8372</b>	<b>2.1984</b>	<b>69.3888</b>	<b>18.5335</b>	<b>2.0225</b>	<b>19.0595</b>	<b>0.0000</b>	<b>98,918.9690</b>	<b>98,918.9690</b>	<b>4.1891</b>	<b>0.0000</b>	<b>99,023.6954</b>

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

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					
2019	3.5734	35.8212	22.5355	0.0401	0.1232	1.7958	1.9190	0.0327	1.6704	1.7031	0.0000	3,946.1977	3,946.1977	1.0655	0.0000	3,972.8347
2020	4.1423	42.4579	22.1811	0.0401	8.2777	2.1984	10.4761	4.5080	2.0225	6.5306	0.0000	3,873.0092	3,873.0092	1.1957	0.0000	3,899.5381
2021	4.2587	46.4400	31.3994	0.0636	8.2777	2.0454	10.3231	4.5080	1.8818	6.3898	0.0000	6,168.3189	6,168.3189	1.9466	0.0000	6,216.9847
2022	24.7949	205.6655	189.2058	0.9645	59.3794	1.6359	60.8261	16.0246	1.5051	17.3851	0.0000	98,918.9690	98,918.9690	4.1891	0.0000	99,023.6954
2023	22.0489	163.0748	173.6213	0.9329	59.3797	1.1374	60.5171	16.0247	1.0667	17.0914	0.0000	95,732.8106	95,732.8106	3.5657	0.0000	95,821.9518
2024	20.7412	160.2238	162.7811	0.9122	59.3800	1.0433	60.4233	16.0248	0.9779	17.0027	0.0000	93,674.6384	93,674.6384	3.4488	0.0000	93,760.8576
2025	19.6055	157.3793	152.9422	0.8920	59.3803	0.9512	60.3315	16.0249	0.8913	16.9162	0.0000	91,656.6571	91,656.6571	3.3420	0.0000	91,740.2081
2026	18.7173	155.6589	144.7370	0.8742	59.3805	0.9411	60.3216	16.0250	0.8819	16.9069	0.0000	89,887.1887	89,887.1887	3.2521	0.0000	89,968.4916
2027	17.8771	153.9654	137.5041	0.8584	59.3808	0.9249	60.3057	16.0251	0.8669	16.8919	0.0000	88,310.2957	88,310.2957	3.1737	0.0000	88,389.6370
2028	17.0225	152.6170	131.1604	0.8446	59.3810	0.9050	60.2860	16.0251	0.8485	16.8736	0.0000	86,937.1632	86,937.1632	3.1012	0.0000	87,014.6944



Union City GPU - Alameda County, Summer

**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	2,383.063 2	48.3030	3,063.048 9	5.2076		385.8880	385.8880		385.8880	385.8880	41,577.09 08	17,788.40 92	59,365.50 00	56.3186	2.9377	61,648.90 20
Energy	6.6574	59.6720	44.6077	0.3631		4.5996	4.5996		4.5996	4.5996		72,625.96 85	72,625.96 85	1.3920	1.3315	73,057.54 83
Mobile	26.0493	201.6448	401.7616	2.7280	291.1213	1.0719	292.1933	77.9573	1.0038	78.9611		279,407.5 698	279,407.5 698	7.0302		279,583.3 242
<b>Total</b>	<b>2,415.769 8</b>	<b>309.6198</b>	<b>3,509.418 2</b>	<b>8.2987</b>	<b>291.1213</b>	<b>391.5595</b>	<b>682.6809</b>	<b>77.9573</b>	<b>391.4914</b>	<b>469.4487</b>	<b>41,577.09 08</b>	<b>369,821.9 475</b>	<b>411,399.0 383</b>	<b>64.7407</b>	<b>4.2692</b>	<b>414,289.7 745</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	2,383.063 2	48.3030	3,063.048 9	5.2076		385.8880	385.8880		385.8880	385.8880	41,577.09 08	17,788.40 92	59,365.50 00	56.3186	2.9377	61,648.90 20
Energy	6.6574	59.6720	44.6077	0.3631		4.5996	4.5996		4.5996	4.5996		72,625.96 85	72,625.96 85	1.3920	1.3315	73,057.54 83
Mobile	26.0493	201.6448	401.7616	2.7280	291.1213	1.0719	292.1933	77.9573	1.0038	78.9611		279,407.5 698	279,407.5 698	7.0302		279,583.3 242
<b>Total</b>	<b>2,415.769 8</b>	<b>309.6198</b>	<b>3,509.418 2</b>	<b>8.2987</b>	<b>291.1213</b>	<b>391.5595</b>	<b>682.6809</b>	<b>77.9573</b>	<b>391.4914</b>	<b>469.4487</b>	<b>41,577.09 08</b>	<b>369,821.9 475</b>	<b>411,399.0 383</b>	<b>64.7407</b>	<b>4.2692</b>	<b>414,289.7 745</b>

Union City GPU - Alameda County, Summer

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

### 3.0 Construction Detail

#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	6/17/2019	6/17/2020	5	263	
2	Site Preparation	Site Preparation	6/18/2020	1/25/2021	5	158	
3	Grading	Grading	1/26/2021	8/17/2022	5	407	
4	Building Construction	Building Construction	8/18/2022	3/23/2038	5	4069	
5	Architectural Coating	Architectural Coating	1/1/2030	5/2/2039	5	2435	
6	Paving	Paving	3/24/2038	5/2/2039	5	289	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 1937.5

Acres of Paving: 0

Residential Indoor: 9,487,530; Residential Outdoor: 3,162,510; Non-Residential Indoor: 12,103,670; Non-Residential Outdoor: 4,034,557; Striped Parking Area: 0 (Architectural Coating – sqft)

#### OffRoad Equipment

## Union City GPU - Alameda County, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	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
Architectural Coating	Air Compressors	1	6.00	78	0.48
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

Trips and VMT

Union City GPU - Alameda County, Summer

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	5,756.00	1,785.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	1,151.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Water Exposed Area

**3.2 Demolition - 2019**

**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	3.5134	35.7830	22.0600	0.0388		1.7949	1.7949		1.6697	1.6697		3,816.8994	3,816.8994	1.0618		3,843.4451
<b>Total</b>	<b>3.5134</b>	<b>35.7830</b>	<b>22.0600</b>	<b>0.0388</b>		<b>1.7949</b>	<b>1.7949</b>		<b>1.6697</b>	<b>1.6697</b>		<b>3,816.8994</b>	<b>3,816.8994</b>	<b>1.0618</b>		<b>3,843.4451</b>

Union City GPU - Alameda County, Summer

**3.2 Demolition - 2019**

**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	0.0600	0.0382	0.4755	1.3000e-003	0.1232	8.4000e-004	0.1241	0.0327	7.8000e-004	0.0335		129.2984	129.2984	3.6500e-003		129.3896
<b>Total</b>	<b>0.0600</b>	<b>0.0382</b>	<b>0.4755</b>	<b>1.3000e-003</b>	<b>0.1232</b>	<b>8.4000e-004</b>	<b>0.1241</b>	<b>0.0327</b>	<b>7.8000e-004</b>	<b>0.0335</b>		<b>129.2984</b>	<b>129.2984</b>	<b>3.6500e-003</b>		<b>129.3896</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.5134	35.7830	22.0600	0.0388		1.7949	1.7949		1.6697	1.6697	0.0000	3,816.8994	3,816.8994	1.0618		3,843.4451
<b>Total</b>	<b>3.5134</b>	<b>35.7830</b>	<b>22.0600</b>	<b>0.0388</b>		<b>1.7949</b>	<b>1.7949</b>		<b>1.6697</b>	<b>1.6697</b>	<b>0.0000</b>	<b>3,816.8994</b>	<b>3,816.8994</b>	<b>1.0618</b>		<b>3,843.4451</b>



Union City GPU - Alameda County, Summer

**3.2 Demolition - 2019**

**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	0.0600	0.0382	0.4755	1.3000e-003	0.1232	8.4000e-004	0.1241	0.0327	7.8000e-004	0.0335		129.2984	129.2984	3.6500e-003		129.3896
<b>Total</b>	<b>0.0600</b>	<b>0.0382</b>	<b>0.4755</b>	<b>1.3000e-003</b>	<b>0.1232</b>	<b>8.4000e-004</b>	<b>0.1241</b>	<b>0.0327</b>	<b>7.8000e-004</b>	<b>0.0335</b>		<b>129.2984</b>	<b>129.2984</b>	<b>3.6500e-003</b>		<b>129.3896</b>

**3.2 Demolition - 2020**

**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	3.3121	33.2010	21.7532	0.0388		1.6587	1.6587		1.5419	1.5419		3,747.7049	3,747.7049	1.0580		3,774.1536
<b>Total</b>	<b>3.3121</b>	<b>33.2010</b>	<b>21.7532</b>	<b>0.0388</b>		<b>1.6587</b>	<b>1.6587</b>		<b>1.5419</b>	<b>1.5419</b>		<b>3,747.7049</b>	<b>3,747.7049</b>	<b>1.0580</b>		<b>3,774.1536</b>

Union City GPU - Alameda County, Summer

**3.2 Demolition - 2020**

**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	0.0549	0.0338	0.4279	1.2600e-003	0.1232	8.2000e-004	0.1240	0.0327	7.6000e-004	0.0334		125.3043	125.3043	3.2100e-003		125.3845
<b>Total</b>	<b>0.0549</b>	<b>0.0338</b>	<b>0.4279</b>	<b>1.2600e-003</b>	<b>0.1232</b>	<b>8.2000e-004</b>	<b>0.1240</b>	<b>0.0327</b>	<b>7.6000e-004</b>	<b>0.0334</b>		<b>125.3043</b>	<b>125.3043</b>	<b>3.2100e-003</b>		<b>125.3845</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.3121	33.2010	21.7532	0.0388		1.6587	1.6587		1.5419	1.5419	0.0000	3,747.7049	3,747.7049	1.0580		3,774.1536
<b>Total</b>	<b>3.3121</b>	<b>33.2010</b>	<b>21.7532</b>	<b>0.0388</b>		<b>1.6587</b>	<b>1.6587</b>		<b>1.5419</b>	<b>1.5419</b>	<b>0.0000</b>	<b>3,747.7049</b>	<b>3,747.7049</b>	<b>1.0580</b>		<b>3,774.1536</b>

Union City GPU - Alameda County, Summer

**3.2 Demolition - 2020**

**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	0.0549	0.0338	0.4279	1.2600e-003	0.1232	8.2000e-004	0.1240	0.0327	7.6000e-004	0.0334		125.3043	125.3043	3.2100e-003		125.3845
<b>Total</b>	<b>0.0549</b>	<b>0.0338</b>	<b>0.4279</b>	<b>1.2600e-003</b>	<b>0.1232</b>	<b>8.2000e-004</b>	<b>0.1240</b>	<b>0.0327</b>	<b>7.6000e-004</b>	<b>0.0334</b>		<b>125.3043</b>	<b>125.3043</b>	<b>3.2100e-003</b>		<b>125.3845</b>

**3.3 Site Preparation - 2020**

**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	4.0765	42.4173	21.5136	0.0380		2.1974	2.1974		2.0216	2.0216		3,685.1016	3,685.1016	1.1918		3,714.8975
<b>Total</b>	<b>4.0765</b>	<b>42.4173</b>	<b>21.5136</b>	<b>0.0380</b>	<b>18.0663</b>	<b>2.1974</b>	<b>20.2637</b>	<b>9.9307</b>	<b>2.0216</b>	<b>11.9523</b>		<b>3,685.1016</b>	<b>3,685.1016</b>	<b>1.1918</b>		<b>3,714.8975</b>

Union City GPU - Alameda County, Summer

**3.3 Site Preparation - 2020**

**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	0.0659	0.0405	0.5135	1.5100e-003	0.1479	9.9000e-004	0.1489	0.0392	9.1000e-004	0.0401		150.3651	150.3651	3.8500e-003		150.4614
<b>Total</b>	<b>0.0659</b>	<b>0.0405</b>	<b>0.5135</b>	<b>1.5100e-003</b>	<b>0.1479</b>	<b>9.9000e-004</b>	<b>0.1489</b>	<b>0.0392</b>	<b>9.1000e-004</b>	<b>0.0401</b>		<b>150.3651</b>	<b>150.3651</b>	<b>3.8500e-003</b>		<b>150.4614</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.1298	0.0000	8.1298	4.4688	0.0000	4.4688			0.0000			0.0000
Off-Road	4.0765	42.4173	21.5136	0.0380		2.1974	2.1974		2.0216	2.0216	0.0000	3,685.1016	3,685.1016	1.1918		3,714.8975
<b>Total</b>	<b>4.0765</b>	<b>42.4173</b>	<b>21.5136</b>	<b>0.0380</b>	<b>8.1298</b>	<b>2.1974</b>	<b>10.3272</b>	<b>4.4688</b>	<b>2.0216</b>	<b>6.4904</b>	<b>0.0000</b>	<b>3,685.1016</b>	<b>3,685.1016</b>	<b>1.1918</b>		<b>3,714.8975</b>

Union City GPU - Alameda County, Summer

**3.3 Site Preparation - 2020**

**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	0.0659	0.0405	0.5135	1.5100e-003	0.1479	9.9000e-004	0.1489	0.0392	9.1000e-004	0.0401		150.3651	150.3651	3.8500e-003		150.4614
<b>Total</b>	<b>0.0659</b>	<b>0.0405</b>	<b>0.5135</b>	<b>1.5100e-003</b>	<b>0.1479</b>	<b>9.9000e-004</b>	<b>0.1489</b>	<b>0.0392</b>	<b>9.1000e-004</b>	<b>0.0401</b>		<b>150.3651</b>	<b>150.3651</b>	<b>3.8500e-003</b>		<b>150.4614</b>

**3.3 Site Preparation - 2021**

**Unmitigated Construction On-Site**

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

Union City GPU - Alameda County, Summer

**3.3 Site Preparation - 2021**

**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	0.0608	0.0362	0.4689	1.4600e-003	0.1479	9.6000e-004	0.1488	0.0392	8.8000e-004	0.0401		145.1480	145.1480	3.4500e-003		145.2341
<b>Total</b>	<b>0.0608</b>	<b>0.0362</b>	<b>0.4689</b>	<b>1.4600e-003</b>	<b>0.1479</b>	<b>9.6000e-004</b>	<b>0.1488</b>	<b>0.0392</b>	<b>8.8000e-004</b>	<b>0.0401</b>		<b>145.1480</b>	<b>145.1480</b>	<b>3.4500e-003</b>		<b>145.2341</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.1298	0.0000	8.1298	4.4688	0.0000	4.4688			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
<b>Total</b>	<b>3.8882</b>	<b>40.4971</b>	<b>21.1543</b>	<b>0.0380</b>	<b>8.1298</b>	<b>2.0445</b>	<b>10.1743</b>	<b>4.4688</b>	<b>1.8809</b>	<b>6.3497</b>	<b>0.0000</b>	<b>3,685.6569</b>	<b>3,685.6569</b>	<b>1.1920</b>		<b>3,715.4573</b>

Union City GPU - Alameda County, Summer

**3.3 Site Preparation - 2021**

**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	0.0608	0.0362	0.4689	1.4600e-003	0.1479	9.6000e-004	0.1488	0.0392	8.8000e-004	0.0401		145.1480	145.1480	3.4500e-003		145.2341
<b>Total</b>	<b>0.0608</b>	<b>0.0362</b>	<b>0.4689</b>	<b>1.4600e-003</b>	<b>0.1479</b>	<b>9.6000e-004</b>	<b>0.1488</b>	<b>0.0392</b>	<b>8.8000e-004</b>	<b>0.0401</b>		<b>145.1480</b>	<b>145.1480</b>	<b>3.4500e-003</b>		<b>145.2341</b>

**3.4 Grading - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					11.0705	0.0000	11.0705	3.8553	0.0000	3.8553			0.0000			0.0000
Off-Road	4.1912	46.3998	30.8785	0.0620		1.9853	1.9853		1.8265	1.8265		6,007.0434	6,007.0434	1.9428		6,055.6134
<b>Total</b>	<b>4.1912</b>	<b>46.3998</b>	<b>30.8785</b>	<b>0.0620</b>	<b>11.0705</b>	<b>1.9853</b>	<b>13.0559</b>	<b>3.8553</b>	<b>1.8265</b>	<b>5.6819</b>		<b>6,007.0434</b>	<b>6,007.0434</b>	<b>1.9428</b>		<b>6,055.6134</b>

Union City GPU - Alameda County, Summer

**3.4 Grading - 2021**

**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	0.0676	0.0402	0.5210	1.6200e-003	0.1643	1.0600e-003	0.1654	0.0436	9.8000e-004	0.0446		161.2755	161.2755	3.8300e-003		161.3713
<b>Total</b>	<b>0.0676</b>	<b>0.0402</b>	<b>0.5210</b>	<b>1.6200e-003</b>	<b>0.1643</b>	<b>1.0600e-003</b>	<b>0.1654</b>	<b>0.0436</b>	<b>9.8000e-004</b>	<b>0.0446</b>		<b>161.2755</b>	<b>161.2755</b>	<b>3.8300e-003</b>		<b>161.3713</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					4.9817	0.0000	4.9817	1.7349	0.0000	1.7349			0.0000			0.0000
Off-Road	4.1912	46.3998	30.8785	0.0620		1.9853	1.9853		1.8265	1.8265	0.0000	6,007.0434	6,007.0434	1.9428		6,055.6134
<b>Total</b>	<b>4.1912</b>	<b>46.3998</b>	<b>30.8785</b>	<b>0.0620</b>	<b>4.9817</b>	<b>1.9853</b>	<b>6.9671</b>	<b>1.7349</b>	<b>1.8265</b>	<b>3.5614</b>	<b>0.0000</b>	<b>6,007.0434</b>	<b>6,007.0434</b>	<b>1.9428</b>		<b>6,055.6134</b>



Union City GPU - Alameda County, Summer

**3.4 Grading - 2021**

**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	0.0676	0.0402	0.5210	1.6200e-003	0.1643	1.0600e-003	0.1654	0.0436	9.8000e-004	0.0446		161.2755	161.2755	3.8300e-003		161.3713
<b>Total</b>	<b>0.0676</b>	<b>0.0402</b>	<b>0.5210</b>	<b>1.6200e-003</b>	<b>0.1643</b>	<b>1.0600e-003</b>	<b>0.1654</b>	<b>0.0436</b>	<b>9.8000e-004</b>	<b>0.0446</b>		<b>161.2755</b>	<b>161.2755</b>	<b>3.8300e-003</b>		<b>161.3713</b>

**3.4 Grading - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					11.0705	0.0000	11.0705	3.8553	0.0000	3.8553			0.0000			0.0000
Off-Road	3.6248	38.8435	29.0415	0.0621		1.6349	1.6349		1.5041	1.5041		6,011.4105	6,011.4105	1.9442		6,060.0158
<b>Total</b>	<b>3.6248</b>	<b>38.8435</b>	<b>29.0415</b>	<b>0.0621</b>	<b>11.0705</b>	<b>1.6349</b>	<b>12.7054</b>	<b>3.8553</b>	<b>1.5041</b>	<b>5.3594</b>		<b>6,011.4105</b>	<b>6,011.4105</b>	<b>1.9442</b>		<b>6,060.0158</b>

Union City GPU - Alameda County, Summer

**3.4 Grading - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0627	0.0360	0.4783	1.5600e-003	0.1643	1.0400e-003	0.1653	0.0436	9.5000e-004	0.0445		155.3942	155.3942	3.4300e-003		155.4800
<b>Total</b>	<b>0.0627</b>	<b>0.0360</b>	<b>0.4783</b>	<b>1.5600e-003</b>	<b>0.1643</b>	<b>1.0400e-003</b>	<b>0.1653</b>	<b>0.0436</b>	<b>9.5000e-004</b>	<b>0.0445</b>		<b>155.3942</b>	<b>155.3942</b>	<b>3.4300e-003</b>		<b>155.4800</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					4.9817	0.0000	4.9817	1.7349	0.0000	1.7349			0.0000			0.0000
Off-Road	3.6248	38.8435	29.0415	0.0621		1.6349	1.6349		1.5041	1.5041	0.0000	6,011.4105	6,011.4105	1.9442		6,060.0158
<b>Total</b>	<b>3.6248</b>	<b>38.8435</b>	<b>29.0415</b>	<b>0.0621</b>	<b>4.9817</b>	<b>1.6349</b>	<b>6.6166</b>	<b>1.7349</b>	<b>1.5041</b>	<b>3.2390</b>	<b>0.0000</b>	<b>6,011.4105</b>	<b>6,011.4105</b>	<b>1.9442</b>		<b>6,060.0158</b>

Union City GPU - Alameda County, Summer

**3.4 Grading - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0627	0.0360	0.4783	1.5600e-003	0.1643	1.0400e-003	0.1653	0.0436	9.5000e-004	0.0445		155.3942	155.3942	3.4300e-003		155.4800
<b>Total</b>	<b>0.0627</b>	<b>0.0360</b>	<b>0.4783</b>	<b>1.5600e-003</b>	<b>0.1643</b>	<b>1.0400e-003</b>	<b>0.1653</b>	<b>0.0436</b>	<b>9.5000e-004</b>	<b>0.0445</b>		<b>155.3942</b>	<b>155.3942</b>	<b>3.4300e-003</b>		<b>155.4800</b>

**3.5 Building Construction - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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
<b>Total</b>	<b>1.7062</b>	<b>15.6156</b>	<b>16.3634</b>	<b>0.0269</b>		<b>0.8090</b>	<b>0.8090</b>		<b>0.7612</b>	<b>0.7612</b>		<b>2,554.3336</b>	<b>2,554.3336</b>	<b>0.6120</b>		<b>2,569.6322</b>

Union City GPU - Alameda County, Summer

**3.5 Building Construction - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	5.0457	179.6976	35.2011	0.4889	12.0952	0.3397	12.4349	3.4826	0.3249	3.8075		51,642.2001	51,642.2001	2.5886		51,706.9154
Worker	18.0430	10.3523	137.6412	0.4486	47.2842	0.2980	47.5821	12.5420	0.2745	12.8165		44,722.4353	44,722.4353	0.9885		44,747.1477
<b>Total</b>	<b>23.0886</b>	<b>190.0499</b>	<b>172.8424</b>	<b>0.9375</b>	<b>59.3794</b>	<b>0.6377</b>	<b>60.0170</b>	<b>16.0246</b>	<b>0.5994</b>	<b>16.6240</b>		<b>96,364.6354</b>	<b>96,364.6354</b>	<b>3.5771</b>		<b>96,454.0632</b>

**Mitigated Construction On-Site**

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

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**3.5 Building Construction - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	5.0457	179.6976	35.2011	0.4889	12.0952	0.3397	12.4349	3.4826	0.3249	3.8075		51,642.2001	51,642.2001	2.5886		51,706.9154
Worker	18.0430	10.3523	137.6412	0.4486	47.2842	0.2980	47.5821	12.5420	0.2745	12.8165		44,722.4353	44,722.4353	0.9885		44,747.1477
<b>Total</b>	<b>23.0886</b>	<b>190.0499</b>	<b>172.8424</b>	<b>0.9375</b>	<b>59.3794</b>	<b>0.6377</b>	<b>60.0170</b>	<b>16.0246</b>	<b>0.5994</b>	<b>16.6240</b>		<b>96,364.6354</b>	<b>96,364.6354</b>	<b>3.5771</b>		<b>96,454.0632</b>

**3.5 Building Construction - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.2099	2,555.2099	0.6079		2,570.4061
<b>Total</b>	<b>1.5728</b>	<b>14.3849</b>	<b>16.2440</b>	<b>0.0269</b>		<b>0.6997</b>	<b>0.6997</b>		<b>0.6584</b>	<b>0.6584</b>		<b>2,555.2099</b>	<b>2,555.2099</b>	<b>0.6079</b>		<b>2,570.4061</b>

Union City GPU - Alameda County, Summer

**3.5 Building Construction - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	3.6953	139.3998	30.9890	0.4747	12.0955	0.1466	12.2421	3.4827	0.1402	3.6229		50,166.7884	50,166.7884	2.0721		50,218.5901
Worker	16.7808	9.2902	126.3883	0.4313	47.2842	0.2911	47.5753	12.5420	0.2681	12.8101		43,010.8124	43,010.8124	0.8857		43,032.9557
<b>Total</b>	<b>20.4761</b>	<b>148.6899</b>	<b>157.3773</b>	<b>0.9060</b>	<b>59.3797</b>	<b>0.4377</b>	<b>59.8174</b>	<b>16.0247</b>	<b>0.4083</b>	<b>16.4329</b>		<b>93,177.6007</b>	<b>93,177.6007</b>	<b>2.9578</b>		<b>93,251.5457</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061
<b>Total</b>	<b>1.5728</b>	<b>14.3849</b>	<b>16.2440</b>	<b>0.0269</b>		<b>0.6997</b>	<b>0.6997</b>		<b>0.6584</b>	<b>0.6584</b>	<b>0.0000</b>	<b>2,555.2099</b>	<b>2,555.2099</b>	<b>0.6079</b>		<b>2,570.4061</b>

Union City GPU - Alameda County, Summer

**3.5 Building Construction - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	3.6953	139.3998	30.9890	0.4747	12.0955	0.1466	12.2421	3.4827	0.1402	3.6229		50,166.7884	50,166.7884	2.0721		50,218.5901
Worker	16.7808	9.2902	126.3883	0.4313	47.2842	0.2911	47.5753	12.5420	0.2681	12.8101		43,010.8124	43,010.8124	0.8857		43,032.9557
<b>Total</b>	<b>20.4761</b>	<b>148.6899</b>	<b>157.3773</b>	<b>0.9060</b>	<b>59.3797</b>	<b>0.4377</b>	<b>59.8174</b>	<b>16.0247</b>	<b>0.4083</b>	<b>16.4329</b>		<b>93,177.6007</b>	<b>93,177.6007</b>	<b>2.9578</b>		<b>93,251.5457</b>

**3.5 Building Construction - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769		2,555.6989	2,555.6989	0.6044		2,570.8077
<b>Total</b>	<b>1.4716</b>	<b>13.4438</b>	<b>16.1668</b>	<b>0.0270</b>		<b>0.6133</b>	<b>0.6133</b>		<b>0.5769</b>	<b>0.5769</b>		<b>2,555.6989</b>	<b>2,555.6989</b>	<b>0.6044</b>		<b>2,570.8077</b>

Union City GPU - Alameda County, Summer

**3.5 Building Construction - 2024**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	3.5879	138.4048	29.6965	0.4712	12.0958	0.1450	12.2408	3.4828	0.1386	3.6214		49,814.23 30	49,814.23 30	2.0470		49,865.40 69
Worker	15.6817	8.3752	116.9179	0.4141	47.2842	0.2850	47.5692	12.5420	0.2624	12.8044		41,304.70 66	41,304.70 66	0.7975		41,324.64 31
<b>Total</b>	<b>19.2697</b>	<b>146.7800</b>	<b>146.6143</b>	<b>0.8853</b>	<b>59.3800</b>	<b>0.4300</b>	<b>59.8100</b>	<b>16.0248</b>	<b>0.4010</b>	<b>16.4258</b>		<b>91,118.93 95</b>	<b>91,118.93 95</b>	<b>2.8444</b>		<b>91,190.04 99</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769	0.0000	2,555.698 9	2,555.698 9	0.6044		2,570.807 7
<b>Total</b>	<b>1.4716</b>	<b>13.4438</b>	<b>16.1668</b>	<b>0.0270</b>		<b>0.6133</b>	<b>0.6133</b>		<b>0.5769</b>	<b>0.5769</b>	<b>0.0000</b>	<b>2,555.698 9</b>	<b>2,555.698 9</b>	<b>0.6044</b>		<b>2,570.807 7</b>



Union City GPU - Alameda County, Summer

**3.5 Building Construction - 2024**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	3.5879	138.4048	29.6965	0.4712	12.0958	0.1450	12.2408	3.4828	0.1386	3.6214		49,814.23 30	49,814.23 30	2.0470		49,865.40 69
Worker	15.6817	8.3752	116.9179	0.4141	47.2842	0.2850	47.5692	12.5420	0.2624	12.8044		41,304.70 66	41,304.70 66	0.7975		41,324.64 31
<b>Total</b>	<b>19.2697</b>	<b>146.7800</b>	<b>146.6143</b>	<b>0.8853</b>	<b>59.3800</b>	<b>0.4300</b>	<b>59.8100</b>	<b>16.0248</b>	<b>0.4010</b>	<b>16.4258</b>		<b>91,118.93 95</b>	<b>91,118.93 95</b>	<b>2.8444</b>		<b>91,190.04 99</b>

**3.5 Building Construction - 2025**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>		<b>2,556.474 4</b>	<b>2,556.474 4</b>	<b>0.6010</b>		<b>2,571.498 1</b>

Union City GPU - Alameda County, Summer

**3.5 Building Construction - 2025**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	3.4944	137.3098	28.6511	0.4679	12.0961	0.1430	12.2391	3.4829	0.1367	3.6196		49,483.2509	49,483.2509	2.0186		49,533.7152
Worker	14.7437	7.5999	108.2064	0.3971	47.2842	0.2806	47.5648	12.5420	0.2583	12.8003		39,616.9318	39,616.9318	0.7225		39,634.9948
<b>Total</b>	<b>18.2381</b>	<b>144.9096</b>	<b>136.8575</b>	<b>0.8650</b>	<b>59.3803</b>	<b>0.4236</b>	<b>59.8039</b>	<b>16.0249</b>	<b>0.3950</b>	<b>16.4199</b>		<b>89,100.1827</b>	<b>89,100.1827</b>	<b>2.7411</b>		<b>89,168.7100</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.4744	2,556.4744	0.6010		2,571.4981
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>	<b>0.0000</b>	<b>2,556.4744</b>	<b>2,556.4744</b>	<b>0.6010</b>		<b>2,571.4981</b>

Union City GPU - Alameda County, Summer

**3.5 Building Construction - 2025**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	3.4944	137.3098	28.6511	0.4679	12.0961	0.1430	12.2391	3.4829	0.1367	3.6196		49,483.2509	49,483.2509	2.0186		49,533.7152
Worker	14.7437	7.5999	108.2064	0.3971	47.2842	0.2806	47.5648	12.5420	0.2583	12.8003		39,616.9318	39,616.9318	0.7225		39,634.9948
<b>Total</b>	<b>18.2381</b>	<b>144.9096</b>	<b>136.8575</b>	<b>0.8650</b>	<b>59.3803</b>	<b>0.4236</b>	<b>59.8039</b>	<b>16.0249</b>	<b>0.3950</b>	<b>16.4199</b>		<b>89,100.1827</b>	<b>89,100.1827</b>	<b>2.7411</b>		<b>89,168.7100</b>

**3.5 Building Construction - 2026**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.4744	2,556.4744	0.6010		2,571.4981
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>		<b>2,556.4744</b>	<b>2,556.4744</b>	<b>0.6010</b>		<b>2,571.4981</b>

Union City GPU - Alameda County, Summer

**3.5 Building Construction - 2026**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	3.4167	136.2437	27.8238	0.4649	12.0964	0.1411	12.2375	3.4830	0.1349	3.6179		49,188.2839	49,188.2839	1.9928		49,238.1040
Worker	13.9332	6.9455	100.8286	0.3823	47.2842	0.2724	47.5566	12.5420	0.2507	12.7927		38,142.4305	38,142.4305	0.6584		38,158.8895
<b>Total</b>	<b>17.3499</b>	<b>143.1892</b>	<b>128.6524</b>	<b>0.8472</b>	<b>59.3805</b>	<b>0.4136</b>	<b>59.7941</b>	<b>16.0250</b>	<b>0.3857</b>	<b>16.4106</b>		<b>87,330.7144</b>	<b>87,330.7144</b>	<b>2.6512</b>		<b>87,396.9936</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.4744	2,556.4744	0.6010		2,571.4981
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>	<b>0.0000</b>	<b>2,556.4744</b>	<b>2,556.4744</b>	<b>0.6010</b>		<b>2,571.4981</b>

Union City GPU - Alameda County, Summer

**3.5 Building Construction - 2026**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	3.4167	136.2437	27.8238	0.4649	12.0964	0.1411	12.2375	3.4830	0.1349	3.6179		49,188.2839	49,188.2839	1.9928		49,238.1040
Worker	13.9332	6.9455	100.8286	0.3823	47.2842	0.2724	47.5566	12.5420	0.2507	12.7927		38,142.4305	38,142.4305	0.6584		38,158.8895
<b>Total</b>	<b>17.3499</b>	<b>143.1892</b>	<b>128.6524</b>	<b>0.8472</b>	<b>59.3805</b>	<b>0.4136</b>	<b>59.7941</b>	<b>16.0250</b>	<b>0.3857</b>	<b>16.4106</b>		<b>87,330.7144</b>	<b>87,330.7144</b>	<b>2.6512</b>		<b>87,396.9936</b>

**3.5 Building Construction - 2027**

**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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.4744	2,556.4744	0.6010		2,571.4981
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>		<b>2,556.4744</b>	<b>2,556.4744</b>	<b>0.6010</b>		<b>2,571.4981</b>

Union City GPU - Alameda County, Summer

**3.5 Building Construction - 2027**

**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	3.3478	135.1332	27.1317	0.4623	12.0966	0.1392	12.2358	3.4831	0.1330	3.6161		48,921.07 82	48,921.07 82	1.9716		48,970.36 90
Worker	13.1619	6.3626	94.2877	0.3691	47.2842	0.2582	47.5424	12.5420	0.2376	12.7796		36,832.74 31	36,832.74 31	0.6011		36,847.76 99
<b>Total</b>	<b>16.5097</b>	<b>141.4957</b>	<b>121.4195</b>	<b>0.8314</b>	<b>59.3808</b>	<b>0.3974</b>	<b>59.7781</b>	<b>16.0251</b>	<b>0.3706</b>	<b>16.3957</b>		<b>85,753.82 14</b>	<b>85,753.82 14</b>	<b>2.5727</b>		<b>85,818.13 90</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>	<b>0.0000</b>	<b>2,556.474 4</b>	<b>2,556.474 4</b>	<b>0.6010</b>		<b>2,571.498 1</b>

Union City GPU - Alameda County, Summer

**3.5 Building Construction - 2027**

**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	3.3478	135.1332	27.1317	0.4623	12.0966	0.1392	12.2358	3.4831	0.1330	3.6161		48,921.0782	48,921.0782	1.9716		48,970.3690
Worker	13.1619	6.3626	94.2877	0.3691	47.2842	0.2582	47.5424	12.5420	0.2376	12.7796		36,832.7431	36,832.7431	0.6011		36,847.7699
<b>Total</b>	<b>16.5097</b>	<b>141.4957</b>	<b>121.4195</b>	<b>0.8314</b>	<b>59.3808</b>	<b>0.3974</b>	<b>59.7781</b>	<b>16.0251</b>	<b>0.3706</b>	<b>16.3957</b>		<b>85,753.8214</b>	<b>85,753.8214</b>	<b>2.5727</b>		<b>85,818.1390</b>

**3.5 Building Construction - 2028**

**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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.4744	2,556.4744	0.6010		2,571.4981
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>		<b>2,556.4744</b>	<b>2,556.4744</b>	<b>0.6010</b>		<b>2,571.4981</b>

Union City GPU - Alameda County, Summer

**3.5 Building Construction - 2028**

**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	3.2897	134.3026	26.5639	0.4601	12.0968	0.1375	12.2343	3.4832	0.1314	3.6146		48,704.24 33	48,704.24 33	1.9492		48,752.97 24
Worker	12.3654	5.8446	88.5119	0.3575	47.2842	0.2400	47.5242	12.5420	0.2208	12.7628		35,676.44 56	35,676.44 56	0.5511		35,690.22 39
<b>Total</b>	<b>15.6551</b>	<b>140.1473</b>	<b>115.0758</b>	<b>0.8176</b>	<b>59.3810</b>	<b>0.3775</b>	<b>59.7585</b>	<b>16.0251</b>	<b>0.3522</b>	<b>16.3774</b>		<b>84,380.68 89</b>	<b>84,380.68 89</b>	<b>2.5003</b>		<b>84,443.19 63</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>	<b>0.0000</b>	<b>2,556.474 4</b>	<b>2,556.474 4</b>	<b>0.6010</b>		<b>2,571.498 1</b>



Union City GPU - Alameda County, Summer

**3.5 Building Construction - 2028**

**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	3.2897	134.3026	26.5639	0.4601	12.0968	0.1375	12.2343	3.4832	0.1314	3.6146		48,704.24 33	48,704.24 33	1.9492		48,752.97 24
Worker	12.3654	5.8446	88.5119	0.3575	47.2842	0.2400	47.5242	12.5420	0.2208	12.7628		35,676.44 56	35,676.44 56	0.5511		35,690.22 39
<b>Total</b>	<b>15.6551</b>	<b>140.1473</b>	<b>115.0758</b>	<b>0.8176</b>	<b>59.3810</b>	<b>0.3775</b>	<b>59.7585</b>	<b>16.0251</b>	<b>0.3522</b>	<b>16.3774</b>		<b>84,380.68 89</b>	<b>84,380.68 89</b>	<b>2.5003</b>		<b>84,443.19 63</b>

**3.5 Building Construction - 2029**

**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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>		<b>2,556.474 4</b>	<b>2,556.474 4</b>	<b>0.6010</b>		<b>2,571.498 1</b>

Union City GPU - Alameda County, Summer

**3.5 Building Construction - 2029**

**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	3.2245	133.0481	25.9269	0.4575	12.0970	0.1350	12.2321	3.4832	0.1291	3.6123		48,440.49 41	48,440.49 41	1.9372		48,488.92 40
Worker	11.5430	5.3735	83.1200	0.3472	47.2842	0.2238	47.5079	12.5420	0.2058	12.7478		34,656.19 09	34,656.19 09	0.5049		34,668.81 35
<b>Total</b>	<b>14.7675</b>	<b>138.4216</b>	<b>109.0469</b>	<b>0.8047</b>	<b>59.3812</b>	<b>0.3588</b>	<b>59.7400</b>	<b>16.0252</b>	<b>0.3349</b>	<b>16.3602</b>		<b>83,096.68 50</b>	<b>83,096.68 50</b>	<b>2.4421</b>		<b>83,157.73 75</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>	<b>0.0000</b>	<b>2,556.474 4</b>	<b>2,556.474 4</b>	<b>0.6010</b>		<b>2,571.498 1</b>

Union City GPU - Alameda County, Summer

**3.5 Building Construction - 2029**

**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	3.2245	133.0481	25.9269	0.4575	12.0970	0.1350	12.2321	3.4832	0.1291	3.6123		48,440.49 41	48,440.49 41	1.9372		48,488.92 40
Worker	11.5430	5.3735	83.1200	0.3472	47.2842	0.2238	47.5079	12.5420	0.2058	12.7478		34,656.19 09	34,656.19 09	0.5049		34,668.81 35
<b>Total</b>	<b>14.7675</b>	<b>138.4216</b>	<b>109.0469</b>	<b>0.8047</b>	<b>59.3812</b>	<b>0.3588</b>	<b>59.7400</b>	<b>16.0252</b>	<b>0.3349</b>	<b>16.3602</b>		<b>83,096.68 50</b>	<b>83,096.68 50</b>	<b>2.4421</b>		<b>83,157.73 75</b>

**3.5 Building Construction - 2030**

**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	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.546 8	2,897.546 8	0.1162		2,900.452 9
<b>Total</b>	<b>1.3091</b>	<b>7.9346</b>	<b>16.1570</b>	<b>0.0310</b>		<b>0.1481</b>	<b>0.1481</b>		<b>0.1481</b>	<b>0.1481</b>		<b>2,897.546 8</b>	<b>2,897.546 8</b>	<b>0.1162</b>		<b>2,900.452 9</b>

Union City GPU - Alameda County, Summer

**3.5 Building Construction - 2030**

**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	3.1775	132.2043	25.4861	0.4556	12.0972	0.1331	12.2303	3.4833	0.1273	3.6106		48,245.79 30	48,245.79 30	1.9232		48,293.87 22
Worker	10.7398	4.9467	78.2715	0.3382	47.2842	0.2089	47.4930	12.5420	0.1921	12.7341		33,758.82 00	33,758.82 00	0.4636		33,770.411 1
<b>Total</b>	<b>13.9173</b>	<b>137.1510</b>	<b>103.7576</b>	<b>0.7938</b>	<b>59.3814</b>	<b>0.3420</b>	<b>59.7233</b>	<b>16.0253</b>	<b>0.3194</b>	<b>16.3446</b>		<b>82,004.61 30</b>	<b>82,004.61 30</b>	<b>2.3868</b>		<b>82,064.28 32</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481	0.0000	2,897.546 8	2,897.546 8	0.1162		2,900.452 9
<b>Total</b>	<b>1.3091</b>	<b>7.9346</b>	<b>16.1570</b>	<b>0.0310</b>		<b>0.1481</b>	<b>0.1481</b>		<b>0.1481</b>	<b>0.1481</b>	<b>0.0000</b>	<b>2,897.546 8</b>	<b>2,897.546 8</b>	<b>0.1162</b>		<b>2,900.452 9</b>

Union City GPU - Alameda County, Summer

**3.5 Building Construction - 2030**

**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	3.1775	132.2043	25.4861	0.4556	12.0972	0.1331	12.2303	3.4833	0.1273	3.6106		48,245.79 30	48,245.79 30	1.9232		48,293.87 22
Worker	10.7398	4.9467	78.2715	0.3382	47.2842	0.2089	47.4930	12.5420	0.1921	12.7341		33,758.82 00	33,758.82 00	0.4636		33,770.411 1
<b>Total</b>	<b>13.9173</b>	<b>137.1510</b>	<b>103.7576</b>	<b>0.7938</b>	<b>59.3814</b>	<b>0.3420</b>	<b>59.7233</b>	<b>16.0253</b>	<b>0.3194</b>	<b>16.3446</b>		<b>82,004.61 30</b>	<b>82,004.61 30</b>	<b>2.3868</b>		<b>82,064.28 32</b>

**3.5 Building Construction - 2031**

**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	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.546 8	2,897.546 8	0.1162		2,900.452 9
<b>Total</b>	<b>1.3091</b>	<b>7.9346</b>	<b>16.1570</b>	<b>0.0310</b>		<b>0.1481</b>	<b>0.1481</b>		<b>0.1481</b>	<b>0.1481</b>		<b>2,897.546 8</b>	<b>2,897.546 8</b>	<b>0.1162</b>		<b>2,900.452 9</b>

Union City GPU - Alameda County, Summer

**3.5 Building Construction - 2031**

**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	3.1430	131.5778	25.1571	0.4542	12.0974	0.1317	12.2291	3.4834	0.1259	3.6093		48,104.64 38	48,104.64 38	1.9126		48,152.45 79
Worker	9.8897	4.5447	73.6532	0.3303	47.2842	0.1951	47.4792	12.5420	0.1794	12.7214		32,972.07 74	32,972.07 74	0.4250		32,982.70 32
<b>Total</b>	<b>13.0326</b>	<b>136.1224</b>	<b>98.8104</b>	<b>0.7845</b>	<b>59.3815</b>	<b>0.3268</b>	<b>59.7083</b>	<b>16.0253</b>	<b>0.3053</b>	<b>16.3307</b>		<b>81,076.72 13</b>	<b>81,076.72 13</b>	<b>2.3376</b>		<b>81,135.16 12</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481	0.0000	2,897.546 8	2,897.546 8	0.1162		2,900.452 9
<b>Total</b>	<b>1.3091</b>	<b>7.9346</b>	<b>16.1570</b>	<b>0.0310</b>		<b>0.1481</b>	<b>0.1481</b>		<b>0.1481</b>	<b>0.1481</b>	<b>0.0000</b>	<b>2,897.546 8</b>	<b>2,897.546 8</b>	<b>0.1162</b>		<b>2,900.452 9</b>

Union City GPU - Alameda County, Summer

**3.5 Building Construction - 2031**

**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	3.1430	131.5778	25.1571	0.4542	12.0974	0.1317	12.2291	3.4834	0.1259	3.6093		48,104.64 38	48,104.64 38	1.9126		48,152.45 79
Worker	9.8897	4.5447	73.6532	0.3303	47.2842	0.1951	47.4792	12.5420	0.1794	12.7214		32,972.07 74	32,972.07 74	0.4250		32,982.70 32
<b>Total</b>	<b>13.0326</b>	<b>136.1224</b>	<b>98.8104</b>	<b>0.7845</b>	<b>59.3815</b>	<b>0.3268</b>	<b>59.7083</b>	<b>16.0253</b>	<b>0.3053</b>	<b>16.3307</b>		<b>81,076.72 13</b>	<b>81,076.72 13</b>	<b>2.3376</b>		<b>81,135.16 12</b>

**3.5 Building Construction - 2032**

**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	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.546 8	2,897.546 8	0.1162		2,900.452 9
<b>Total</b>	<b>1.3091</b>	<b>7.9346</b>	<b>16.1570</b>	<b>0.0310</b>		<b>0.1481</b>	<b>0.1481</b>		<b>0.1481</b>	<b>0.1481</b>		<b>2,897.546 8</b>	<b>2,897.546 8</b>	<b>0.1162</b>		<b>2,900.452 9</b>

Union City GPU - Alameda County, Summer

**3.5 Building Construction - 2032**

**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	3.1164	131.0687	24.9152	0.4533	12.0975	0.1306	12.2281	3.4834	0.1248	3.6083		48,010.1806	48,010.1806	1.9045		48,057.7935
Worker	9.1536	4.2048	69.6453	0.3234	47.2842	0.1823	47.4665	12.5420	0.1677	12.7097		32,287.8483	32,287.8483	0.3919		32,297.6460
<b>Total</b>	<b>12.2700</b>	<b>135.2735</b>	<b>94.5605</b>	<b>0.7766</b>	<b>59.3817</b>	<b>0.3129</b>	<b>59.6946</b>	<b>16.0254</b>	<b>0.2925</b>	<b>16.3179</b>		<b>80,298.0289</b>	<b>80,298.0289</b>	<b>2.2964</b>		<b>80,355.4395</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529
<b>Total</b>	<b>1.3091</b>	<b>7.9346</b>	<b>16.1570</b>	<b>0.0310</b>		<b>0.1481</b>	<b>0.1481</b>		<b>0.1481</b>	<b>0.1481</b>	<b>0.0000</b>	<b>2,897.5468</b>	<b>2,897.5468</b>	<b>0.1162</b>		<b>2,900.4529</b>



Union City GPU - Alameda County, Summer

**3.5 Building Construction - 2032**

**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	3.1164	131.0687	24.9152	0.4533	12.0975	0.1306	12.2281	3.4834	0.1248	3.6083		48,010.1806	48,010.1806	1.9045		48,057.7935
Worker	9.1536	4.2048	69.6453	0.3234	47.2842	0.1823	47.4665	12.5420	0.1677	12.7097		32,287.8483	32,287.8483	0.3919		32,297.6460
<b>Total</b>	<b>12.2700</b>	<b>135.2735</b>	<b>94.5605</b>	<b>0.7766</b>	<b>59.3817</b>	<b>0.3129</b>	<b>59.6946</b>	<b>16.0254</b>	<b>0.2925</b>	<b>16.3179</b>		<b>80,298.0289</b>	<b>80,298.0289</b>	<b>2.2964</b>		<b>80,355.4395</b>

**3.5 Building Construction - 2033**

**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	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529
<b>Total</b>	<b>1.3091</b>	<b>7.9346</b>	<b>16.1570</b>	<b>0.0310</b>		<b>0.1481</b>	<b>0.1481</b>		<b>0.1481</b>	<b>0.1481</b>		<b>2,897.5468</b>	<b>2,897.5468</b>	<b>0.1162</b>		<b>2,900.4529</b>

Union City GPU - Alameda County, Summer

**3.5 Building Construction - 2033**

**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	3.0973	130.6317	24.7152	0.4525	12.0976	0.1296	12.2273	3.4835	0.1239	3.6074		47,940.27 25	47,940.27 25	1.8993		47,987.75 60
Worker	8.5273	3.9194	66.1938	0.3174	47.2842	0.1707	47.4549	12.5420	0.1570	12.6990		31,696.71 99	31,696.71 99	0.3637		31,705.811 5
<b>Total</b>	<b>11.6246</b>	<b>134.5512</b>	<b>90.9089</b>	<b>0.7699</b>	<b>59.3818</b>	<b>0.3004</b>	<b>59.6822</b>	<b>16.0254</b>	<b>0.2810</b>	<b>16.3064</b>		<b>79,636.99 24</b>	<b>79,636.99 24</b>	<b>2.2630</b>		<b>79,693.56 75</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481	0.0000	2,897.546 8	2,897.546 8	0.1162		2,900.452 9
<b>Total</b>	<b>1.3091</b>	<b>7.9346</b>	<b>16.1570</b>	<b>0.0310</b>		<b>0.1481</b>	<b>0.1481</b>		<b>0.1481</b>	<b>0.1481</b>	<b>0.0000</b>	<b>2,897.546 8</b>	<b>2,897.546 8</b>	<b>0.1162</b>		<b>2,900.452 9</b>

Union City GPU - Alameda County, Summer

**3.5 Building Construction - 2033**

**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	3.0973	130.6317	24.7152	0.4525	12.0976	0.1296	12.2273	3.4835	0.1239	3.6074		47,940.2725	47,940.2725	1.8993		47,987.7560
Worker	8.5273	3.9194	66.1938	0.3174	47.2842	0.1707	47.4549	12.5420	0.1570	12.6990		31,696.7199	31,696.7199	0.3637		31,705.8115
<b>Total</b>	<b>11.6246</b>	<b>134.5512</b>	<b>90.9089</b>	<b>0.7699</b>	<b>59.3818</b>	<b>0.3004</b>	<b>59.6822</b>	<b>16.0254</b>	<b>0.2810</b>	<b>16.3064</b>		<b>79,636.9924</b>	<b>79,636.9924</b>	<b>2.2630</b>		<b>79,693.5675</b>

**3.5 Building Construction - 2034**

**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	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529
<b>Total</b>	<b>1.3091</b>	<b>7.9346</b>	<b>16.1570</b>	<b>0.0310</b>		<b>0.1481</b>	<b>0.1481</b>		<b>0.1481</b>	<b>0.1481</b>		<b>2,897.5468</b>	<b>2,897.5468</b>	<b>0.1162</b>		<b>2,900.4529</b>

Union City GPU - Alameda County, Summer

**3.5 Building Construction - 2034**

**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	3.0791	130.2479	24.5212	0.4520	12.0977	0.1286	12.2264	3.4835	0.1230	3.6065		47,892.2765	47,892.2765	1.8953		47,939.6599
Worker	7.9814	3.6784	62.9528	0.3122	47.2842	0.1599	47.4441	12.5420	0.1471	12.6891		31,186.3325	31,186.3325	0.3377		31,194.7746
<b>Total</b>	<b>11.0606</b>	<b>133.9263</b>	<b>87.4740</b>	<b>0.7643</b>	<b>59.3819</b>	<b>0.2886</b>	<b>59.6705</b>	<b>16.0255</b>	<b>0.2701</b>	<b>16.2955</b>		<b>79,078.6090</b>	<b>79,078.6090</b>	<b>2.2330</b>		<b>79,134.4345</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529
<b>Total</b>	<b>1.3091</b>	<b>7.9346</b>	<b>16.1570</b>	<b>0.0310</b>		<b>0.1481</b>	<b>0.1481</b>		<b>0.1481</b>	<b>0.1481</b>	<b>0.0000</b>	<b>2,897.5468</b>	<b>2,897.5468</b>	<b>0.1162</b>		<b>2,900.4529</b>

Union City GPU - Alameda County, Summer

**3.5 Building Construction - 2034**

**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	3.0791	130.2479	24.5212	0.4520	12.0977	0.1286	12.2264	3.4835	0.1230	3.6065		47,892.2765	47,892.2765	1.8953		47,939.6599
Worker	7.9814	3.6784	62.9528	0.3122	47.2842	0.1599	47.4441	12.5420	0.1471	12.6891		31,186.3325	31,186.3325	0.3377		31,194.7746
<b>Total</b>	<b>11.0606</b>	<b>133.9263</b>	<b>87.4740</b>	<b>0.7643</b>	<b>59.3819</b>	<b>0.2886</b>	<b>59.6705</b>	<b>16.0255</b>	<b>0.2701</b>	<b>16.2955</b>		<b>79,078.6090</b>	<b>79,078.6090</b>	<b>2.2330</b>		<b>79,134.4345</b>

**3.5 Building Construction - 2035**

**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	1.2168	7.1613	16.1178	0.0310		0.0904	0.0904		0.0904	0.0904		2,897.5468	2,897.5468	0.1079		2,900.2448
<b>Total</b>	<b>1.2168</b>	<b>7.1613</b>	<b>16.1178</b>	<b>0.0310</b>		<b>0.0904</b>	<b>0.0904</b>		<b>0.0904</b>	<b>0.0904</b>		<b>2,897.5468</b>	<b>2,897.5468</b>	<b>0.1079</b>		<b>2,900.2448</b>

Union City GPU - Alameda County, Summer

**3.5 Building Construction - 2035**

**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	3.0630	129.8976	24.3524	0.4517	12.0978	0.1277	12.2256	3.4835	0.1221	3.6056		47,857.10 35	47,857.10 35	1.8922		47,904.40 88
Worker	7.5038	3.4885	60.1551	0.3079	47.2842	0.1501	47.4343	12.5420	0.1381	12.6800		30,751.60 79	30,751.60 79	0.3155		30,759.49 53
<b>Total</b>	<b>10.5668</b>	<b>133.3862</b>	<b>84.5075</b>	<b>0.7595</b>	<b>59.3820</b>	<b>0.2778</b>	<b>59.6598</b>	<b>16.0255</b>	<b>0.2602</b>	<b>16.2857</b>		<b>78,608.71 14</b>	<b>78,608.71 14</b>	<b>2.2077</b>		<b>78,663.90 41</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2168	7.1613	16.1178	0.0310		0.0904	0.0904		0.0904	0.0904	0.0000	2,897.546 8	2,897.546 8	0.1079		2,900.244 8
<b>Total</b>	<b>1.2168</b>	<b>7.1613</b>	<b>16.1178</b>	<b>0.0310</b>		<b>0.0904</b>	<b>0.0904</b>		<b>0.0904</b>	<b>0.0904</b>	<b>0.0000</b>	<b>2,897.546 8</b>	<b>2,897.546 8</b>	<b>0.1079</b>		<b>2,900.244 8</b>

Union City GPU - Alameda County, Summer

**3.5 Building Construction - 2035**

**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	3.0630	129.8976	24.3524	0.4517	12.0978	0.1277	12.2256	3.4835	0.1221	3.6056		47,857.10 35	47,857.10 35	1.8922		47,904.40 88
Worker	7.5038	3.4885	60.1551	0.3079	47.2842	0.1501	47.4343	12.5420	0.1381	12.6800		30,751.60 79	30,751.60 79	0.3155		30,759.49 53
<b>Total</b>	<b>10.5668</b>	<b>133.3862</b>	<b>84.5075</b>	<b>0.7595</b>	<b>59.3820</b>	<b>0.2778</b>	<b>59.6598</b>	<b>16.0255</b>	<b>0.2602</b>	<b>16.2857</b>		<b>78,608.71 14</b>	<b>78,608.71 14</b>	<b>2.2077</b>		<b>78,663.90 41</b>

**3.5 Building Construction - 2036**

**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	1.2168	7.1613	16.1178	0.0310		0.0904	0.0904		0.0904	0.0904		2,897.546 8	2,897.546 8	0.1079		2,900.244 8
<b>Total</b>	<b>1.2168</b>	<b>7.1613</b>	<b>16.1178</b>	<b>0.0310</b>		<b>0.0904</b>	<b>0.0904</b>		<b>0.0904</b>	<b>0.0904</b>		<b>2,897.546 8</b>	<b>2,897.546 8</b>	<b>0.1079</b>		<b>2,900.244 8</b>

Union City GPU - Alameda County, Summer

**3.5 Building Construction - 2036**

**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	3.0630	129.8976	24.3524	0.4517	12.0978	0.1277	12.2256	3.4835	0.1221	3.6056		47,857.10 35	47,857.10 35	1.8922		47,904.40 88
Worker	7.5038	3.4885	60.1551	0.3079	47.2842	0.1501	47.4343	12.5420	0.1381	12.6800		30,751.60 79	30,751.60 79	0.3155		30,759.49 53
<b>Total</b>	<b>10.5668</b>	<b>133.3862</b>	<b>84.5075</b>	<b>0.7595</b>	<b>59.3820</b>	<b>0.2778</b>	<b>59.6598</b>	<b>16.0255</b>	<b>0.2602</b>	<b>16.2857</b>		<b>78,608.71 14</b>	<b>78,608.71 14</b>	<b>2.2077</b>		<b>78,663.90 41</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2168	7.1613	16.1178	0.0310		0.0904	0.0904		0.0904	0.0904	0.0000	2,897.546 8	2,897.546 8	0.1079		2,900.244 8
<b>Total</b>	<b>1.2168</b>	<b>7.1613</b>	<b>16.1178</b>	<b>0.0310</b>		<b>0.0904</b>	<b>0.0904</b>		<b>0.0904</b>	<b>0.0904</b>	<b>0.0000</b>	<b>2,897.546 8</b>	<b>2,897.546 8</b>	<b>0.1079</b>		<b>2,900.244 8</b>



Union City GPU - Alameda County, Summer

**3.5 Building Construction - 2036**

**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	3.0630	129.8976	24.3524	0.4517	12.0978	0.1277	12.2256	3.4835	0.1221	3.6056		47,857.10 35	47,857.10 35	1.8922		47,904.40 88
Worker	7.5038	3.4885	60.1551	0.3079	47.2842	0.1501	47.4343	12.5420	0.1381	12.6800		30,751.60 79	30,751.60 79	0.3155		30,759.49 53
<b>Total</b>	<b>10.5668</b>	<b>133.3862</b>	<b>84.5075</b>	<b>0.7595</b>	<b>59.3820</b>	<b>0.2778</b>	<b>59.6598</b>	<b>16.0255</b>	<b>0.2602</b>	<b>16.2857</b>		<b>78,608.71 14</b>	<b>78,608.71 14</b>	<b>2.2077</b>		<b>78,663.90 41</b>

**3.5 Building Construction - 2037**

**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	1.2168	7.1613	16.1178	0.0310		0.0904	0.0904		0.0904	0.0904		2,897.546 8	2,897.546 8	0.1079		2,900.244 8
<b>Total</b>	<b>1.2168</b>	<b>7.1613</b>	<b>16.1178</b>	<b>0.0310</b>		<b>0.0904</b>	<b>0.0904</b>		<b>0.0904</b>	<b>0.0904</b>		<b>2,897.546 8</b>	<b>2,897.546 8</b>	<b>0.1079</b>		<b>2,900.244 8</b>

Union City GPU - Alameda County, Summer

**3.5 Building Construction - 2037**

**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	3.0630	129.8976	24.3524	0.4517	12.0978	0.1277	12.2256	3.4835	0.1221	3.6056		47,857.10 35	47,857.10 35	1.8922		47,904.40 88
Worker	7.5038	3.4885	60.1551	0.3079	47.2842	0.1501	47.4343	12.5420	0.1381	12.6800		30,751.60 79	30,751.60 79	0.3155		30,759.49 53
<b>Total</b>	<b>10.5668</b>	<b>133.3862</b>	<b>84.5075</b>	<b>0.7595</b>	<b>59.3820</b>	<b>0.2778</b>	<b>59.6598</b>	<b>16.0255</b>	<b>0.2602</b>	<b>16.2857</b>		<b>78,608.71 14</b>	<b>78,608.71 14</b>	<b>2.2077</b>		<b>78,663.90 41</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2168	7.1613	16.1178	0.0310		0.0904	0.0904		0.0904	0.0904	0.0000	2,897.546 8	2,897.546 8	0.1079		2,900.244 8
<b>Total</b>	<b>1.2168</b>	<b>7.1613</b>	<b>16.1178</b>	<b>0.0310</b>		<b>0.0904</b>	<b>0.0904</b>		<b>0.0904</b>	<b>0.0904</b>	<b>0.0000</b>	<b>2,897.546 8</b>	<b>2,897.546 8</b>	<b>0.1079</b>		<b>2,900.244 8</b>

Union City GPU - Alameda County, Summer

**3.5 Building Construction - 2037**

**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	3.0630	129.8976	24.3524	0.4517	12.0978	0.1277	12.2256	3.4835	0.1221	3.6056		47,857.10 35	47,857.10 35	1.8922		47,904.40 88
Worker	7.5038	3.4885	60.1551	0.3079	47.2842	0.1501	47.4343	12.5420	0.1381	12.6800		30,751.60 79	30,751.60 79	0.3155		30,759.49 53
<b>Total</b>	<b>10.5668</b>	<b>133.3862</b>	<b>84.5075</b>	<b>0.7595</b>	<b>59.3820</b>	<b>0.2778</b>	<b>59.6598</b>	<b>16.0255</b>	<b>0.2602</b>	<b>16.2857</b>		<b>78,608.71 14</b>	<b>78,608.71 14</b>	<b>2.2077</b>		<b>78,663.90 41</b>

**3.5 Building Construction - 2038**

**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	1.2168	7.1613	16.1178	0.0310		0.0904	0.0904		0.0904	0.0904		2,897.546 8	2,897.546 8	0.1079		2,900.244 8
<b>Total</b>	<b>1.2168</b>	<b>7.1613</b>	<b>16.1178</b>	<b>0.0310</b>		<b>0.0904</b>	<b>0.0904</b>		<b>0.0904</b>	<b>0.0904</b>		<b>2,897.546 8</b>	<b>2,897.546 8</b>	<b>0.1079</b>		<b>2,900.244 8</b>

Union City GPU - Alameda County, Summer

**3.5 Building Construction - 2038**

**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	3.0630	129.8976	24.3524	0.4517	12.0978	0.1277	12.2256	3.4835	0.1221	3.6056		47,857.10 35	47,857.10 35	1.8922		47,904.40 88
Worker	7.5038	3.4885	60.1551	0.3079	47.2842	0.1501	47.4343	12.5420	0.1381	12.6800		30,751.60 79	30,751.60 79	0.3155		30,759.49 53
<b>Total</b>	<b>10.5668</b>	<b>133.3862</b>	<b>84.5075</b>	<b>0.7595</b>	<b>59.3820</b>	<b>0.2778</b>	<b>59.6598</b>	<b>16.0255</b>	<b>0.2602</b>	<b>16.2857</b>		<b>78,608.71 14</b>	<b>78,608.71 14</b>	<b>2.2077</b>		<b>78,663.90 41</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2168	7.1613	16.1178	0.0310		0.0904	0.0904		0.0904	0.0904	0.0000	2,897.546 8	2,897.546 8	0.1079		2,900.244 8
<b>Total</b>	<b>1.2168</b>	<b>7.1613</b>	<b>16.1178</b>	<b>0.0310</b>		<b>0.0904</b>	<b>0.0904</b>		<b>0.0904</b>	<b>0.0904</b>	<b>0.0000</b>	<b>2,897.546 8</b>	<b>2,897.546 8</b>	<b>0.1079</b>		<b>2,900.244 8</b>

Union City GPU - Alameda County, Summer

**3.5 Building Construction - 2038**

**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	3.0630	129.8976	24.3524	0.4517	12.0978	0.1277	12.2256	3.4835	0.1221	3.6056		47,857.10 35	47,857.10 35	1.8922		47,904.40 88
Worker	7.5038	3.4885	60.1551	0.3079	47.2842	0.1501	47.4343	12.5420	0.1381	12.6800		30,751.60 79	30,751.60 79	0.3155		30,759.49 53
<b>Total</b>	<b>10.5668</b>	<b>133.3862</b>	<b>84.5075</b>	<b>0.7595</b>	<b>59.3820</b>	<b>0.2778</b>	<b>59.6598</b>	<b>16.0255</b>	<b>0.2602</b>	<b>16.2857</b>		<b>78,608.71 14</b>	<b>78,608.71 14</b>	<b>2.2077</b>		<b>78,663.90 41</b>

**3.6 Architectural Coating - 2030**

**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	61.6480					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203		281.4481	281.4481	0.0114		281.7328
<b>Total</b>	<b>61.7787</b>	<b>0.8563</b>	<b>1.7977</b>	<b>2.9700e-003</b>		<b>0.0203</b>	<b>0.0203</b>		<b>0.0203</b>	<b>0.0203</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0114</b>		<b>281.7328</b>

Union City GPU - Alameda County, Summer

**3.6 Architectural Coating - 2030**

**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	2.1476	0.9892	15.6516	0.0676	9.4552	0.0418	9.4970	2.5080	0.0384	2.5464		6,750.5910	6,750.5910	0.0927		6,752.9088
<b>Total</b>	<b>2.1476</b>	<b>0.9892</b>	<b>15.6516</b>	<b>0.0676</b>	<b>9.4552</b>	<b>0.0418</b>	<b>9.4970</b>	<b>2.5080</b>	<b>0.0384</b>	<b>2.5464</b>		<b>6,750.5910</b>	<b>6,750.5910</b>	<b>0.0927</b>		<b>6,752.9088</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	61.6480					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203	0.0000	281.4481	281.4481	0.0114		281.7328
<b>Total</b>	<b>61.7787</b>	<b>0.8563</b>	<b>1.7977</b>	<b>2.9700e-003</b>		<b>0.0203</b>	<b>0.0203</b>		<b>0.0203</b>	<b>0.0203</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0114</b>		<b>281.7328</b>

Union City GPU - Alameda County, Summer

**3.6 Architectural Coating - 2030**

**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	2.1476	0.9892	15.6516	0.0676	9.4552	0.0418	9.4970	2.5080	0.0384	2.5464		6,750.5910	6,750.5910	0.0927		6,752.9088
<b>Total</b>	<b>2.1476</b>	<b>0.9892</b>	<b>15.6516</b>	<b>0.0676</b>	<b>9.4552</b>	<b>0.0418</b>	<b>9.4970</b>	<b>2.5080</b>	<b>0.0384</b>	<b>2.5464</b>		<b>6,750.5910</b>	<b>6,750.5910</b>	<b>0.0927</b>		<b>6,752.9088</b>

**3.6 Architectural Coating - 2031**

**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	61.6480					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203		281.4481	281.4481	0.0114		281.7328
<b>Total</b>	<b>61.7787</b>	<b>0.8563</b>	<b>1.7977</b>	<b>2.9700e-003</b>		<b>0.0203</b>	<b>0.0203</b>		<b>0.0203</b>	<b>0.0203</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0114</b>		<b>281.7328</b>

Union City GPU - Alameda County, Summer

**3.6 Architectural Coating - 2031**

**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	1.9776	0.9088	14.7281	0.0660	9.4552	0.0390	9.4942	2.5080	0.0359	2.5438		6,593.2698	6,593.2698	0.0850		6,595.3946
<b>Total</b>	<b>1.9776</b>	<b>0.9088</b>	<b>14.7281</b>	<b>0.0660</b>	<b>9.4552</b>	<b>0.0390</b>	<b>9.4942</b>	<b>2.5080</b>	<b>0.0359</b>	<b>2.5438</b>		<b>6,593.2698</b>	<b>6,593.2698</b>	<b>0.0850</b>		<b>6,595.3946</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	61.6480					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203	0.0000	281.4481	281.4481	0.0114		281.7328
<b>Total</b>	<b>61.7787</b>	<b>0.8563</b>	<b>1.7977</b>	<b>2.9700e-003</b>		<b>0.0203</b>	<b>0.0203</b>		<b>0.0203</b>	<b>0.0203</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0114</b>		<b>281.7328</b>



Union City GPU - Alameda County, Summer

**3.6 Architectural Coating - 2031**

**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	1.9776	0.9088	14.7281	0.0660	9.4552	0.0390	9.4942	2.5080	0.0359	2.5438		6,593.2698	6,593.2698	0.0850		6,595.3946
<b>Total</b>	<b>1.9776</b>	<b>0.9088</b>	<b>14.7281</b>	<b>0.0660</b>	<b>9.4552</b>	<b>0.0390</b>	<b>9.4942</b>	<b>2.5080</b>	<b>0.0359</b>	<b>2.5438</b>		<b>6,593.2698</b>	<b>6,593.2698</b>	<b>0.0850</b>		<b>6,595.3946</b>

**3.6 Architectural Coating - 2032**

**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	61.6480					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203		281.4481	281.4481	0.0114		281.7328
<b>Total</b>	<b>61.7787</b>	<b>0.8563</b>	<b>1.7977</b>	<b>2.9700e-003</b>		<b>0.0203</b>	<b>0.0203</b>		<b>0.0203</b>	<b>0.0203</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0114</b>		<b>281.7328</b>

Union City GPU - Alameda County, Summer

**3.6 Architectural Coating - 2032**

**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	1.8304	0.8408	13.9267	0.0647	9.4552	0.0365	9.4917	2.5080	0.0335	2.5415		6,456.4478	6,456.4478	0.0784		6,458.4070
<b>Total</b>	<b>1.8304</b>	<b>0.8408</b>	<b>13.9267</b>	<b>0.0647</b>	<b>9.4552</b>	<b>0.0365</b>	<b>9.4917</b>	<b>2.5080</b>	<b>0.0335</b>	<b>2.5415</b>		<b>6,456.4478</b>	<b>6,456.4478</b>	<b>0.0784</b>		<b>6,458.4070</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	61.6480					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203	0.0000	281.4481	281.4481	0.0114		281.7328
<b>Total</b>	<b>61.7787</b>	<b>0.8563</b>	<b>1.7977</b>	<b>2.9700e-003</b>		<b>0.0203</b>	<b>0.0203</b>		<b>0.0203</b>	<b>0.0203</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0114</b>		<b>281.7328</b>

Union City GPU - Alameda County, Summer

**3.6 Architectural Coating - 2032**

**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	1.8304	0.8408	13.9267	0.0647	9.4552	0.0365	9.4917	2.5080	0.0335	2.5415		6,456.4478	6,456.4478	0.0784			6,458.4070
<b>Total</b>	<b>1.8304</b>	<b>0.8408</b>	<b>13.9267</b>	<b>0.0647</b>	<b>9.4552</b>	<b>0.0365</b>	<b>9.4917</b>	<b>2.5080</b>	<b>0.0335</b>	<b>2.5415</b>		<b>6,456.4478</b>	<b>6,456.4478</b>	<b>0.0784</b>			<b>6,458.4070</b>

**3.6 Architectural Coating - 2033**

**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	61.6480					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203		281.4481	281.4481	0.0114			281.7328
<b>Total</b>	<b>61.7787</b>	<b>0.8563</b>	<b>1.7977</b>	<b>2.9700e-003</b>		<b>0.0203</b>	<b>0.0203</b>		<b>0.0203</b>	<b>0.0203</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0114</b>			<b>281.7328</b>

Union City GPU - Alameda County, Summer

**3.6 Architectural Coating - 2033**

**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	1.7052	0.7838	13.2365	0.0635	9.4552	0.0341	9.4893	2.5080	0.0314	2.5394		6,338.2426	6,338.2426	0.0727		6,340.0607
<b>Total</b>	<b>1.7052</b>	<b>0.7838</b>	<b>13.2365</b>	<b>0.0635</b>	<b>9.4552</b>	<b>0.0341</b>	<b>9.4893</b>	<b>2.5080</b>	<b>0.0314</b>	<b>2.5394</b>		<b>6,338.2426</b>	<b>6,338.2426</b>	<b>0.0727</b>		<b>6,340.0607</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	61.6480					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203	0.0000	281.4481	281.4481	0.0114		281.7328
<b>Total</b>	<b>61.7787</b>	<b>0.8563</b>	<b>1.7977</b>	<b>2.9700e-003</b>		<b>0.0203</b>	<b>0.0203</b>		<b>0.0203</b>	<b>0.0203</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0114</b>		<b>281.7328</b>

Union City GPU - Alameda County, Summer

**3.6 Architectural Coating - 2033**

**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	1.7052	0.7838	13.2365	0.0635	9.4552	0.0341	9.4893	2.5080	0.0314	2.5394		6,338.2426	6,338.2426	0.0727		6,340.0607
<b>Total</b>	<b>1.7052</b>	<b>0.7838</b>	<b>13.2365</b>	<b>0.0635</b>	<b>9.4552</b>	<b>0.0341</b>	<b>9.4893</b>	<b>2.5080</b>	<b>0.0314</b>	<b>2.5394</b>		<b>6,338.2426</b>	<b>6,338.2426</b>	<b>0.0727</b>		<b>6,340.0607</b>

**3.6 Architectural Coating - 2034**

**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	61.6480					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203		281.4481	281.4481	0.0114		281.7328
<b>Total</b>	<b>61.7787</b>	<b>0.8563</b>	<b>1.7977</b>	<b>2.9700e-003</b>		<b>0.0203</b>	<b>0.0203</b>		<b>0.0203</b>	<b>0.0203</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0114</b>		<b>281.7328</b>

Union City GPU - Alameda County, Summer

**3.6 Architectural Coating - 2034**

**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	1.5960	0.7356	12.5884	0.0624	9.4552	0.0320	9.4872	2.5080	0.0294	2.5374		6,236.1829	6,236.1829	0.0675		6,237.8710
<b>Total</b>	<b>1.5960</b>	<b>0.7356</b>	<b>12.5884</b>	<b>0.0624</b>	<b>9.4552</b>	<b>0.0320</b>	<b>9.4872</b>	<b>2.5080</b>	<b>0.0294</b>	<b>2.5374</b>		<b>6,236.1829</b>	<b>6,236.1829</b>	<b>0.0675</b>		<b>6,237.8710</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	61.6480					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203	0.0000	281.4481	281.4481	0.0114		281.7328
<b>Total</b>	<b>61.7787</b>	<b>0.8563</b>	<b>1.7977</b>	<b>2.9700e-003</b>		<b>0.0203</b>	<b>0.0203</b>		<b>0.0203</b>	<b>0.0203</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0114</b>		<b>281.7328</b>

Union City GPU - Alameda County, Summer

**3.6 Architectural Coating - 2034**

**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	1.5960	0.7356	12.5884	0.0624	9.4552	0.0320	9.4872	2.5080	0.0294	2.5374		6,236.1829	6,236.1829	0.0675		6,237.8710
<b>Total</b>	<b>1.5960</b>	<b>0.7356</b>	<b>12.5884</b>	<b>0.0624</b>	<b>9.4552</b>	<b>0.0320</b>	<b>9.4872</b>	<b>2.5080</b>	<b>0.0294</b>	<b>2.5374</b>		<b>6,236.1829</b>	<b>6,236.1829</b>	<b>0.0675</b>		<b>6,237.8710</b>

**3.6 Architectural Coating - 2035**

**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	61.6480					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1179	0.7577	1.7943	2.9700e-003		9.9000e-003	9.9000e-003		9.9000e-003	9.9000e-003		281.4481	281.4481	0.0104		281.7081
<b>Total</b>	<b>61.7659</b>	<b>0.7577</b>	<b>1.7943</b>	<b>2.9700e-003</b>		<b>9.9000e-003</b>	<b>9.9000e-003</b>		<b>9.9000e-003</b>	<b>9.9000e-003</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0104</b>		<b>281.7081</b>

Union City GPU - Alameda County, Summer

**3.6 Architectural Coating - 2035**

**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	1.5005	0.6976	12.0289	0.0616	9.4552	0.0300	9.4852	2.5080	0.0276	2.5356		6,149.253 1	6,149.253 1	0.0631		6,150.830 3
<b>Total</b>	<b>1.5005</b>	<b>0.6976</b>	<b>12.0289</b>	<b>0.0616</b>	<b>9.4552</b>	<b>0.0300</b>	<b>9.4852</b>	<b>2.5080</b>	<b>0.0276</b>	<b>2.5356</b>		<b>6,149.253 1</b>	<b>6,149.253 1</b>	<b>0.0631</b>		<b>6,150.830 3</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	61.6480					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1179	0.7577	1.7943	2.9700e-003		9.9000e-003	9.9000e-003		9.9000e-003	9.9000e-003	0.0000	281.4481	281.4481	0.0104		281.7081
<b>Total</b>	<b>61.7659</b>	<b>0.7577</b>	<b>1.7943</b>	<b>2.9700e-003</b>		<b>9.9000e-003</b>	<b>9.9000e-003</b>		<b>9.9000e-003</b>	<b>9.9000e-003</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0104</b>		<b>281.7081</b>



Union City GPU - Alameda County, Summer

**3.6 Architectural Coating - 2035**

**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	1.5005	0.6976	12.0289	0.0616	9.4552	0.0300	9.4852	2.5080	0.0276	2.5356		6,149.253 1	6,149.253 1	0.0631		6,150.830 3
<b>Total</b>	<b>1.5005</b>	<b>0.6976</b>	<b>12.0289</b>	<b>0.0616</b>	<b>9.4552</b>	<b>0.0300</b>	<b>9.4852</b>	<b>2.5080</b>	<b>0.0276</b>	<b>2.5356</b>		<b>6,149.253 1</b>	<b>6,149.253 1</b>	<b>0.0631</b>		<b>6,150.830 3</b>

**3.6 Architectural Coating - 2036**

**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	61.6480					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1179	0.7577	1.7943	2.9700e-003		9.9000e-003	9.9000e-003		9.9000e-003	9.9000e-003		281.4481	281.4481	0.0104		281.7081
<b>Total</b>	<b>61.7659</b>	<b>0.7577</b>	<b>1.7943</b>	<b>2.9700e-003</b>		<b>9.9000e-003</b>	<b>9.9000e-003</b>		<b>9.9000e-003</b>	<b>9.9000e-003</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0104</b>		<b>281.7081</b>

Union City GPU - Alameda County, Summer

**3.6 Architectural Coating - 2036**

**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	1.5005	0.6976	12.0289	0.0616	9.4552	0.0300	9.4852	2.5080	0.0276	2.5356		6,149.253 1	6,149.253 1	0.0631		6,150.830 3
<b>Total</b>	<b>1.5005</b>	<b>0.6976</b>	<b>12.0289</b>	<b>0.0616</b>	<b>9.4552</b>	<b>0.0300</b>	<b>9.4852</b>	<b>2.5080</b>	<b>0.0276</b>	<b>2.5356</b>		<b>6,149.253 1</b>	<b>6,149.253 1</b>	<b>0.0631</b>		<b>6,150.830 3</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	61.6480					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1179	0.7577	1.7943	2.9700e-003		9.9000e-003	9.9000e-003		9.9000e-003	9.9000e-003	0.0000	281.4481	281.4481	0.0104		281.7081
<b>Total</b>	<b>61.7659</b>	<b>0.7577</b>	<b>1.7943</b>	<b>2.9700e-003</b>		<b>9.9000e-003</b>	<b>9.9000e-003</b>		<b>9.9000e-003</b>	<b>9.9000e-003</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0104</b>		<b>281.7081</b>

Union City GPU - Alameda County, Summer

**3.6 Architectural Coating - 2036**

**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	1.5005	0.6976	12.0289	0.0616	9.4552	0.0300	9.4852	2.5080	0.0276	2.5356		6,149.253 1	6,149.253 1	0.0631		6,150.830 3
<b>Total</b>	<b>1.5005</b>	<b>0.6976</b>	<b>12.0289</b>	<b>0.0616</b>	<b>9.4552</b>	<b>0.0300</b>	<b>9.4852</b>	<b>2.5080</b>	<b>0.0276</b>	<b>2.5356</b>		<b>6,149.253 1</b>	<b>6,149.253 1</b>	<b>0.0631</b>		<b>6,150.830 3</b>

**3.6 Architectural Coating - 2037**

**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	61.6480					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1179	0.7577	1.7943	2.9700e-003		9.9000e-003	9.9000e-003		9.9000e-003	9.9000e-003		281.4481	281.4481	0.0104		281.7081
<b>Total</b>	<b>61.7659</b>	<b>0.7577</b>	<b>1.7943</b>	<b>2.9700e-003</b>		<b>9.9000e-003</b>	<b>9.9000e-003</b>		<b>9.9000e-003</b>	<b>9.9000e-003</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0104</b>		<b>281.7081</b>

Union City GPU - Alameda County, Summer

**3.6 Architectural Coating - 2037**

**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	1.5005	0.6976	12.0289	0.0616	9.4552	0.0300	9.4852	2.5080	0.0276	2.5356		6,149.253 1	6,149.253 1	0.0631		6,150.830 3
<b>Total</b>	<b>1.5005</b>	<b>0.6976</b>	<b>12.0289</b>	<b>0.0616</b>	<b>9.4552</b>	<b>0.0300</b>	<b>9.4852</b>	<b>2.5080</b>	<b>0.0276</b>	<b>2.5356</b>		<b>6,149.253 1</b>	<b>6,149.253 1</b>	<b>0.0631</b>		<b>6,150.830 3</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	61.6480					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1179	0.7577	1.7943	2.9700e-003		9.9000e-003	9.9000e-003		9.9000e-003	9.9000e-003	0.0000	281.4481	281.4481	0.0104		281.7081
<b>Total</b>	<b>61.7659</b>	<b>0.7577</b>	<b>1.7943</b>	<b>2.9700e-003</b>		<b>9.9000e-003</b>	<b>9.9000e-003</b>		<b>9.9000e-003</b>	<b>9.9000e-003</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0104</b>		<b>281.7081</b>

Union City GPU - Alameda County, Summer

**3.6 Architectural Coating - 2037**

**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	1.5005	0.6976	12.0289	0.0616	9.4552	0.0300	9.4852	2.5080	0.0276	2.5356		6,149.253 1	6,149.253 1	0.0631		6,150.830 3
<b>Total</b>	<b>1.5005</b>	<b>0.6976</b>	<b>12.0289</b>	<b>0.0616</b>	<b>9.4552</b>	<b>0.0300</b>	<b>9.4852</b>	<b>2.5080</b>	<b>0.0276</b>	<b>2.5356</b>		<b>6,149.253 1</b>	<b>6,149.253 1</b>	<b>0.0631</b>		<b>6,150.830 3</b>

**3.6 Architectural Coating - 2038**

**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	61.6480					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1179	0.7577	1.7943	2.9700e-003		9.9000e-003	9.9000e-003		9.9000e-003	9.9000e-003		281.4481	281.4481	0.0104		281.7081
<b>Total</b>	<b>61.7659</b>	<b>0.7577</b>	<b>1.7943</b>	<b>2.9700e-003</b>		<b>9.9000e-003</b>	<b>9.9000e-003</b>		<b>9.9000e-003</b>	<b>9.9000e-003</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0104</b>		<b>281.7081</b>

Union City GPU - Alameda County, Summer

**3.6 Architectural Coating - 2038**

**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	1.5005	0.6976	12.0289	0.0616	9.4552	0.0300	9.4852	2.5080	0.0276	2.5356		6,149.253 1	6,149.253 1	0.0631		6,150.830 3
<b>Total</b>	<b>1.5005</b>	<b>0.6976</b>	<b>12.0289</b>	<b>0.0616</b>	<b>9.4552</b>	<b>0.0300</b>	<b>9.4852</b>	<b>2.5080</b>	<b>0.0276</b>	<b>2.5356</b>		<b>6,149.253 1</b>	<b>6,149.253 1</b>	<b>0.0631</b>		<b>6,150.830 3</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	61.6480					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1179	0.7577	1.7943	2.9700e-003		9.9000e-003	9.9000e-003		9.9000e-003	9.9000e-003	0.0000	281.4481	281.4481	0.0104		281.7081
<b>Total</b>	<b>61.7659</b>	<b>0.7577</b>	<b>1.7943</b>	<b>2.9700e-003</b>		<b>9.9000e-003</b>	<b>9.9000e-003</b>		<b>9.9000e-003</b>	<b>9.9000e-003</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0104</b>		<b>281.7081</b>

Union City GPU - Alameda County, Summer

**3.6 Architectural Coating - 2038**

**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	1.5005	0.6976	12.0289	0.0616	9.4552	0.0300	9.4852	2.5080	0.0276	2.5356		6,149.253 1	6,149.253 1	0.0631		6,150.830 3
<b>Total</b>	<b>1.5005</b>	<b>0.6976</b>	<b>12.0289</b>	<b>0.0616</b>	<b>9.4552</b>	<b>0.0300</b>	<b>9.4852</b>	<b>2.5080</b>	<b>0.0276</b>	<b>2.5356</b>		<b>6,149.253 1</b>	<b>6,149.253 1</b>	<b>0.0631</b>		<b>6,150.830 3</b>

**3.6 Architectural Coating - 2039**

**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	61.6480					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1179	0.7577	1.7943	2.9700e-003		9.9000e-003	9.9000e-003		9.9000e-003	9.9000e-003		281.4481	281.4481	0.0104		281.7081
<b>Total</b>	<b>61.7659</b>	<b>0.7577</b>	<b>1.7943</b>	<b>2.9700e-003</b>		<b>9.9000e-003</b>	<b>9.9000e-003</b>		<b>9.9000e-003</b>	<b>9.9000e-003</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0104</b>		<b>281.7081</b>

Union City GPU - Alameda County, Summer

**3.6 Architectural Coating - 2039**

**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	1.5005	0.6976	12.0289	0.0616	9.4552	0.0300	9.4852	2.5080	0.0276	2.5356		6,149.253 1	6,149.253 1	0.0631		6,150.830 3
<b>Total</b>	<b>1.5005</b>	<b>0.6976</b>	<b>12.0289</b>	<b>0.0616</b>	<b>9.4552</b>	<b>0.0300</b>	<b>9.4852</b>	<b>2.5080</b>	<b>0.0276</b>	<b>2.5356</b>		<b>6,149.253 1</b>	<b>6,149.253 1</b>	<b>0.0631</b>		<b>6,150.830 3</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	61.6480					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1179	0.7577	1.7943	2.9700e-003		9.9000e-003	9.9000e-003		9.9000e-003	9.9000e-003	0.0000	281.4481	281.4481	0.0104		281.7081
<b>Total</b>	<b>61.7659</b>	<b>0.7577</b>	<b>1.7943</b>	<b>2.9700e-003</b>		<b>9.9000e-003</b>	<b>9.9000e-003</b>		<b>9.9000e-003</b>	<b>9.9000e-003</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0104</b>		<b>281.7081</b>



Union City GPU - Alameda County, Summer

**3.6 Architectural Coating - 2039**

**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	1.5005	0.6976	12.0289	0.0616	9.4552	0.0300	9.4852	2.5080	0.0276	2.5356		6,149.253 1	6,149.253 1	0.0631		6,150.830 3
<b>Total</b>	<b>1.5005</b>	<b>0.6976</b>	<b>12.0289</b>	<b>0.0616</b>	<b>9.4552</b>	<b>0.0300</b>	<b>9.4852</b>	<b>2.5080</b>	<b>0.0276</b>	<b>2.5356</b>		<b>6,149.253 1</b>	<b>6,149.253 1</b>	<b>0.0631</b>		<b>6,150.830 3</b>

**3.7 Paving - 2038**

**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	1.1405	4.8761	15.8203	0.0281		0.1874	0.1874		0.1874	0.1874		2,656.516 8	2,656.516 8	0.1022		2,659.072 7
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.1405</b>	<b>4.8761</b>	<b>15.8203</b>	<b>0.0281</b>		<b>0.1874</b>	<b>0.1874</b>		<b>0.1874</b>	<b>0.1874</b>		<b>2,656.516 8</b>	<b>2,656.516 8</b>	<b>0.1022</b>		<b>2,659.072 7</b>

Union City GPU - Alameda County, Summer

**3.7 Paving - 2038**

**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	0.0196	9.0900e-003	0.1568	8.0000e-004	0.1232	3.9000e-004	0.1236	0.0327	3.6000e-004	0.0330		80.1380	80.1380	8.2000e-004		80.1585
<b>Total</b>	<b>0.0196</b>	<b>9.0900e-003</b>	<b>0.1568</b>	<b>8.0000e-004</b>	<b>0.1232</b>	<b>3.9000e-004</b>	<b>0.1236</b>	<b>0.0327</b>	<b>3.6000e-004</b>	<b>0.0330</b>		<b>80.1380</b>	<b>80.1380</b>	<b>8.2000e-004</b>		<b>80.1585</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1405	4.8761	15.8203	0.0281		0.1874	0.1874		0.1874	0.1874	0.0000	2,656.5168	2,656.5168	0.1022		2,659.0726
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.1405</b>	<b>4.8761</b>	<b>15.8203</b>	<b>0.0281</b>		<b>0.1874</b>	<b>0.1874</b>		<b>0.1874</b>	<b>0.1874</b>	<b>0.0000</b>	<b>2,656.5168</b>	<b>2,656.5168</b>	<b>0.1022</b>		<b>2,659.0726</b>

Union City GPU - Alameda County, Summer

**3.7 Paving - 2038**

**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	0.0196	9.0900e-003	0.1568	8.0000e-004	0.1232	3.9000e-004	0.1236	0.0327	3.6000e-004	0.0330		80.1380	80.1380	8.2000e-004		80.1585
<b>Total</b>	<b>0.0196</b>	<b>9.0900e-003</b>	<b>0.1568</b>	<b>8.0000e-004</b>	<b>0.1232</b>	<b>3.9000e-004</b>	<b>0.1236</b>	<b>0.0327</b>	<b>3.6000e-004</b>	<b>0.0330</b>		<b>80.1380</b>	<b>80.1380</b>	<b>8.2000e-004</b>		<b>80.1585</b>

**3.7 Paving - 2039**

**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	1.1405	4.8761	15.8203	0.0281		0.1874	0.1874		0.1874	0.1874		2,656.5168	2,656.5168	0.1022		2,659.0727
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.1405</b>	<b>4.8761</b>	<b>15.8203</b>	<b>0.0281</b>		<b>0.1874</b>	<b>0.1874</b>		<b>0.1874</b>	<b>0.1874</b>		<b>2,656.5168</b>	<b>2,656.5168</b>	<b>0.1022</b>		<b>2,659.0727</b>

Union City GPU - Alameda County, Summer

**3.7 Paving - 2039**

**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	0.0196	9.0900e-003	0.1568	8.0000e-004	0.1232	3.9000e-004	0.1236	0.0327	3.6000e-004	0.0330		80.1380	80.1380	8.2000e-004		80.1585
<b>Total</b>	<b>0.0196</b>	<b>9.0900e-003</b>	<b>0.1568</b>	<b>8.0000e-004</b>	<b>0.1232</b>	<b>3.9000e-004</b>	<b>0.1236</b>	<b>0.0327</b>	<b>3.6000e-004</b>	<b>0.0330</b>		<b>80.1380</b>	<b>80.1380</b>	<b>8.2000e-004</b>		<b>80.1585</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1405	4.8761	15.8203	0.0281		0.1874	0.1874		0.1874	0.1874	0.0000	2,656.5168	2,656.5168	0.1022		2,659.0726
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.1405</b>	<b>4.8761</b>	<b>15.8203</b>	<b>0.0281</b>		<b>0.1874</b>	<b>0.1874</b>		<b>0.1874</b>	<b>0.1874</b>	<b>0.0000</b>	<b>2,656.5168</b>	<b>2,656.5168</b>	<b>0.1022</b>		<b>2,659.0726</b>

Union City GPU - Alameda County, Summer

**3.7 Paving - 2039**

**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	0.0196	9.0900e-003	0.1568	8.0000e-004	0.1232	3.9000e-004	0.1236	0.0327	3.6000e-004	0.0330		80.1380	80.1380	8.2000e-004		80.1585
<b>Total</b>	<b>0.0196</b>	<b>9.0900e-003</b>	<b>0.1568</b>	<b>8.0000e-004</b>	<b>0.1232</b>	<b>3.9000e-004</b>	<b>0.1236</b>	<b>0.0327</b>	<b>3.6000e-004</b>	<b>0.0330</b>		<b>80.1380</b>	<b>80.1380</b>	<b>8.2000e-004</b>		<b>80.1585</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

Union City GPU - Alameda County, Summer

	ROG	NOx	CO	SO2	Fugitive 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	26.0493	201.6448	401.7616	2.7280	291.1213	1.0719	292.1933	77.9573	1.0038	78.9611		279,407.5698	279,407.5698	7.0302		279,583.3242
Unmitigated	26.0493	201.6448	401.7616	2.7280	291.1213	1.0719	292.1933	77.9573	1.0038	78.9611		279,407.5698	279,407.5698	7.0302		279,583.3242

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	3,886.00	3,886.00	3886.00	20,510,308	20,510,308
General Office Building	7,797.68	7,797.68	7797.68	28,639,007	28,639,007
Manufacturing	1,947.47	1,947.47	1947.47	17,367,493	17,367,493
Single Family Housing	399.60	399.60	399.60	3,556,360	3,556,360
Strip Mall	9.50	9.50	9.50	2,720,814	2,720,814
Supermarket	2,101.92	2,101.92	2101.92	63,656,154	63,656,154
Total	16,142.16	16,142.16	16,142.16	136,450,137	136,450,137

4.3 Trip Type Information

Union City GPU - Alameda County, Summer

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	14.50	14.50	14.50	100.00	0.00	0.00	100	0	0
General Office Building	10.09	10.09	10.09	0.00	100.00	0.00	100	0	0
Manufacturing	24.50	24.50	24.50	0.00	100.00	0.00	100	0	0
Single Family Housing	24.45	24.45	24.45	100.00	0.00	0.00	100	0	0
Strip Mall	786.66	786.66	786.66	0.00	100.00	0.00	100	0	0
Supermarket	83.20	83.20	83.20	0.00	100.00	0.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.564354	0.034948	0.188156	0.101714	0.011079	0.005040	0.028641	0.055840	0.002376	0.001564	0.005216	0.000439	0.000633
General Office Building	0.564354	0.034948	0.188156	0.101714	0.011079	0.005040	0.028641	0.055840	0.002376	0.001564	0.005216	0.000439	0.000633
Manufacturing	0.564354	0.034948	0.188156	0.101714	0.011079	0.005040	0.028641	0.055840	0.002376	0.001564	0.005216	0.000439	0.000633
Single Family Housing	0.564354	0.034948	0.188156	0.101714	0.011079	0.005040	0.028641	0.055840	0.002376	0.001564	0.005216	0.000439	0.000633
Strip Mall	0.564354	0.034948	0.188156	0.101714	0.011079	0.005040	0.028641	0.055840	0.002376	0.001564	0.005216	0.000439	0.000633
Supermarket	0.564354	0.034948	0.188156	0.101714	0.011079	0.005040	0.028641	0.055840	0.002376	0.001564	0.005216	0.000439	0.000633

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Union City GPU - Alameda County, Summer

	ROG	NOx	CO	SO2	Fugitive 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	6.6574	59.6720	44.6077	0.3631		4.5996	4.5996		4.5996	4.5996		72,625.9685	72,625.9685	1.3920	1.3315	73,057.5483
NaturalGas Unmitigated	6.6574	59.6720	44.6077	0.3631		4.5996	4.5996		4.5996	4.5996		72,625.9685	72,625.9685	1.3920	1.3315	73,057.5483



Union City GPU - Alameda County, Summer

**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					
Apartments Mid Rise	92949.2	1.0024	8.5659	3.6451	0.0547		0.6926	0.6926		0.6926	0.6926		10,935.1977	10,935.1977	0.2096	0.2005	11,000.1802
General Office Building	206478	2.2267	20.2430	17.0041	0.1215		1.5385	1.5385		1.5385	1.5385		24,291.5577	24,291.5577	0.4656	0.4454	24,435.9103
Manufacturing	146727	1.5824	14.3850	12.0834	0.0863		1.0933	1.0933		1.0933	1.0933		17,261.9862	17,261.9862	0.3309	0.3165	17,364.5656
Single Family Housing	51484.2	0.5552	4.7446	2.0190	0.0303		0.3836	0.3836		0.3836	0.3836		6,056.9700	6,056.9700	0.1161	0.1110	6,092.9636
Strip Mall	11974.9	0.1291	1.1740	0.9862	7.0400e-003		0.0892	0.0892		0.0892	0.0892		1,408.8173	1,408.8173	0.0270	0.0258	1,417.1892
Supermarket	107707	1.1616	10.5595	8.8700	0.0634		0.8025	0.8025		0.8025	0.8025		12,671.4395	12,671.4395	0.2429	0.2323	12,746.7396
<b>Total</b>		<b>6.6574</b>	<b>59.6720</b>	<b>44.6077</b>	<b>0.3631</b>		<b>4.5997</b>	<b>4.5997</b>		<b>4.5997</b>	<b>4.5997</b>		<b>72,625.9685</b>	<b>72,625.9685</b>	<b>1.3920</b>	<b>1.3315</b>	<b>73,057.5483</b>

Union City GPU - Alameda County, Summer

**5.2 Energy by Land Use - NaturalGas**

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	92.9492	1.0024	8.5659	3.6451	0.0547		0.6926	0.6926		0.6926	0.6926		10,935.1977	10,935.1977	0.2096	0.2005	11,000.1802
General Office Building	206.478	2.2267	20.2430	17.0041	0.1215		1.5385	1.5385		1.5385	1.5385		24,291.5577	24,291.5577	0.4656	0.4454	24,435.9103
Manufacturing	146.727	1.5824	14.3850	12.0834	0.0863		1.0933	1.0933		1.0933	1.0933		17,261.9862	17,261.9862	0.3309	0.3165	17,364.5656
Single Family Housing	51.4842	0.5552	4.7446	2.0190	0.0303		0.3836	0.3836		0.3836	0.3836		6,056.9700	6,056.9700	0.1161	0.1110	6,092.9636
Strip Mall	11.9749	0.1291	1.1740	0.9862	7.0400e-003		0.0892	0.0892		0.0892	0.0892		1,408.8173	1,408.8173	0.0270	0.0258	1,417.1892
Supermarket	107.707	1.1616	10.5595	8.8700	0.0634		0.8025	0.8025		0.8025	0.8025		12,671.4395	12,671.4395	0.2429	0.2323	12,746.7396
<b>Total</b>		<b>6.6574</b>	<b>59.6720</b>	<b>44.6077</b>	<b>0.3631</b>		<b>4.5997</b>	<b>4.5997</b>		<b>4.5997</b>	<b>4.5997</b>		<b>72,625.9685</b>	<b>72,625.9685</b>	<b>1.3920</b>	<b>1.3315</b>	<b>73,057.5483</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

Union City GPU - Alameda County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	2,383.063 2	48.3030	3,063.048 9	5.2076		385.8880	385.8880		385.8880	385.8880	41,577.09 08	17,788.40 92	59,365.50 00	56.3186	2.9377	61,648.90 20
Unmitigated	2,383.063 2	48.3030	3,063.048 9	5.2076		385.8880	385.8880		385.8880	385.8880	41,577.09 08	17,788.40 92	59,365.50 00	56.3186	2.9377	61,648.90 20

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	41.1268					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	272.9423					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	2,058.281 7	44.1904	2,706.569 1	5.1886		383.9040	383.9040		383.9040	383.9040	41,577.09 08	17,143.411 8	58,720.50 25	55.7018	2.9377	60,988.48 46
Landscaping	10.7124	4.1126	356.4798	0.0189		1.9839	1.9839		1.9839	1.9839		644.9974	644.9974	0.6168		660.4174
<b>Total</b>	<b>2,383.063 2</b>	<b>48.3030</b>	<b>3,063.048 9</b>	<b>5.2076</b>		<b>385.8880</b>	<b>385.8880</b>		<b>385.8880</b>	<b>385.8880</b>	<b>41,577.09 08</b>	<b>17,788.40 92</b>	<b>59,365.50 00</b>	<b>56.3186</b>	<b>2.9377</b>	<b>61,648.90 20</b>

Union City GPU - Alameda County, Summer

**6.2 Area by SubCategory**

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	41.1268					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	272.9423					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	2,058.2817	44.1904	2,706.5691	5.1886		383.9040	383.9040		383.9040	383.9040	41,577.0908	17,143.4118	58,720.5025	55.7018	2.9377	60,988.4846
Landscaping	10.7124	4.1126	356.4798	0.0189		1.9839	1.9839		1.9839	1.9839		644.9974	644.9974	0.6168		660.4174
<b>Total</b>	<b>2,383.0632</b>	<b>48.3030</b>	<b>3,063.0489</b>	<b>5.2076</b>		<b>385.8880</b>	<b>385.8880</b>		<b>385.8880</b>	<b>385.8880</b>	<b>41,577.0908</b>	<b>17,788.4092</b>	<b>59,365.5000</b>	<b>56.3186</b>	<b>2.9377</b>	<b>61,648.9020</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

Use Water Efficient Irrigation System

**8.0 Waste Detail**

**8.1 Mitigation Measures Waste**

Institute Recycling and Composting Services

**9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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## Union City GPU - Alameda County, Summer

**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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**11.0 Vegetation**

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## N2O Operational GHG Emission Mobile Calculations

Project Code & Title: 14-0046, Union City General Plan

Vehicle Population Breakdown*	
1122281	Gasoline vehicles
28459	Diesel vehicles
97.5%	Gasoline vehicle %
2.5%	Diesel vehicle %

VMT per Vehicle Type	
136450140	Project VMT (CalEEMod output)
133075596	Gasoline vehicle VMT
3374544	Diesel vehicle VMT

Gasoline Vehicles	
97.5%	Gasoline vehicle %
37.7269	Tons per year mobile NOX emissions (annual output in CalEEMod)
36.79	Gasoline vehicle tons per year NOX emissions
4.16%	Percentage to convert NOX emissions to N2O **
1.5306	Tons per year N2O emissions for gasoline vehicles
1.3886	Metric tons per year N2O emissions for gasoline vehicles

Diesel Vehicles	
0.3316	grams N2O per gallon of fuel for diesel vehicles**
31.34	Diesel average miles per gallon*
0.01058	grams per mile N2O for diesel vehicles
35699.9	grams per year N2O for diesel vehicles
0.0356999	Metric tons per year N2O emissions for diesel vehicles

CO2E Emissions from N2O	
1.4243	Metric tons per year from gasoline + diesel vehicles
298	GWP of N2O***
<b>424.4</b>	<b>CO2E emissions per year from N2O emissions from gasoline + diesel vehicles</b>

Sources	
<b>*Vehicle population source:</b>	
EMFAC2014 (v1.0.7) Emissions Inventory	
Region Type: County	
Region: Alameda	
Calendar Year: 2040	
Season: Annual	
Vehicle Classification: EMFAC2011 Categories	
<b>**Methodology source:</b>	
EMFAC2011 Frequently Asked Questions	
<a href="https://www.arb.ca.gov/msei/emfac2011-faq.htm">https://www.arb.ca.gov/msei/emfac2011-faq.htm</a>	
<b>***GWP source:</b>	
Intergovernmental Panel on Climate Change (IPCC). 2007.	
Summary for Policymakers. In: Climate Change 2007: The Physical Science Basis. Contribution of Working Group I to the Fourth Assessment Report of the Intergovernmental Panel on Climate Change.	

# Carbon-Free Electricity Generation Calculations

Union City General Plan Update

18-Dec-18

Interim RPS Targets (Percent Carbon-Free)	Year	Expressed Target?
<b>33.00%</b>	<b>2013</b>	<b>RPS Target</b>
34.00%	2014	
35.00%	2015	
36.00%	2016	
37.00%	2017	
38.00%	2018	
39.00%	2019	
40.00%	2020	
41.00%	2021	
42.00%	2022	
43.00%	2023	
<b>44.00%</b>	<b>2024</b>	<b>RPS Target</b>
47.00%	2025	
<b>50.00%</b>	<b>2026</b>	<b>RPS Target</b>
<b>52.00%</b>	<b>2027</b>	<b>RPS Target</b>
54.67%	2028	
57.33%	2029	
<b>60.00%</b>	<b>2030</b>	<b>RPS Target</b>
62.67%	2031	
65.33%	2032	
68.00%	2033	
70.67%	2034	
73.33%	2035	
76.00%	2036	
78.67%	2037	
81.33%	2038	
84.00%	2039	
86.67%	2040	
89.33%	2041	
92.00%	2042	
94.67%	2043	
97.33%	2044	
<b>100.00%</b>	<b>2045</b>	<b>RPS Target</b>

Notes: RPS = Renewable Portfolio Standard

RPS Targets are as expressed in SB 100 Bill Text:

[https://leginfo.legislature.ca.gov/faces/billCompareClient.xhtml?bill\\_id=201720180SB100](https://leginfo.legislature.ca.gov/faces/billCompareClient.xhtml?bill_id=201720180SB100)

For each interim target, the equation reads:

$$\frac{([FUTURE\ TARGET] - [PAST\ TARGET])}{([FUTURE\ YEAR] - [PAST\ YEAR])} + PREVIOUS\ YEAR\ TARGET$$

Example:

Interim Target for 2031 =  $\frac{((100\% - 60\%)/(2045 - 2030)) + 60\%}{1}$

# Project Electricity Consumption & Emissions

CalEEMod Annual Sheet Table 5.3, *Energy by Land Use - Electricity*

Current Utility Co. Renewable Mix	kWh/Year	MTCO2e
69.00%	134,407,180	39,253.80

Actual MTCO2e\*

126,625.16

Source: Pacific Gas and Electric (PG&E). 2017. *PG&E's Power Mix*. Available at:

[https://www.pge.com/pge\\_global/local/assets/data/en-us/your-account/your-bill/understand-your-bill/bill-inserts/2017/november/power-content.pdf](https://www.pge.com/pge_global/local/assets/data/en-us/your-account/your-bill/understand-your-bill/bill-inserts/2017/november/power-content.pdf).

Note: \* Actual MTCO2e is an approximation for 0% renewable energy mix where 100% of electricity generation is assumed to consist of the same proportion of carbon-generating activities.

Equation reads: Actual MTCO2e = MTCO2e / (1 - current utility renewable energy mix)

Example: 1,000 MTCO2e / (1 - 0.6) = 2,500 MTCO2e

Interim RPS Year	Interim RPS:	Adjusted MTCO2e**
2040	86.67%	16,883.36

Note: \*\* Adjusted MTCO2e takes the Actual MTCO2e and applies the interim RPS target selected from the previous page.

Equation reads: Adjusted MTCO2e = Actual MTCO2e \* (1 - Interim RPS)

Example: 2,500 MTCO2e \* (1 - 0.8) = 500 MTCO2e



# Appendix D

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Traffic Counts

# ALL TRAFFIC DATA SERVICES

9660 W. 44TH AVE  
WHEAT RIDGE, CO 80033  
www.ALLTRAFFICDATA.NET

1  
Date Start: 5/8/2018  
Date End: 5/9/2018  
Site Code: 1  
MISSION BLVD N.O WHIPPLE RD

Start Time	5/7/2018 Mon	5/8/2018 Tue	5/9/2018 Wed	5/10/2018 Thu	5/11/2018 Fri	Weekday Average	5/12/2018 Sat	5/13/2018 Sun
12:00 AM	*	195	176	*	*	186	*	*
01:00	*	83	109	*	*	96	*	*
02:00	*	65	59	*	*	62	*	*
03:00	*	88	100	*	*	94	*	*
04:00	*	244	239	*	*	242	*	*
05:00	*	771	779	*	*	775	*	*
06:00	*	1962	1907	*	*	1934	*	*
07:00	*	<b>2806</b>	<b>2763</b>	*	*	2784	*	*
08:00	*	2431	2620	*	*	2526	*	*
09:00	*	1649	1586	*	*	1618	*	*
10:00	*	1318	1328	*	*	1323	*	*
11:00	*	1330	1330	*	*	1330	*	*
12:00 PM	*	1421	1506	*	*	1464	*	*
01:00	*	1609	1710	*	*	1660	*	*
02:00	*	2068	2192	*	*	2130	*	*
03:00	*	2581	2640	*	*	2610	*	*
04:00	*	2870	2945	*	*	2908	*	*
05:00	*	<b>2924</b>	<b>3038</b>	*	*	2981	*	*
06:00	*	2533	2316	*	*	2424	*	*
07:00	*	1902	1730	*	*	1816	*	*
08:00	*	1196	1280	*	*	1238	*	*
09:00	*	899	1069	*	*	984	*	*
10:00	*	718	705	*	*	712	*	*
11:00	*	388	356	*	*	372	*	*
Total	0	34051	34483	0	0		0	0
Percentage	0.0%	99.4%	100.6%	0.0%	0.0%		0.0%	0.0%
AM Peak	-	07:00	07:00	-	-	-	-	-
Vol.	-	2806	2763	-	-	-	-	-
PM Peak	-	17:00	17:00	-	-	-	-	-
Vol.	-	2924	3038	-	-	-	-	-
Total		34051	34483					

# ALL TRAFFIC DATA SERVICES

9660 W. 44TH AVE  
WHEAT RIDGE, CO 80033  
www.ALLTRAFFICDATA.NET

2  
Date Start: 5/8/2018  
Date End: 5/9/2018  
Site Code: 2  
MISSION BLVD N.O DECOTO RD

Start Time	5/7/2018 Mon	5/8/2018 Tue	5/9/2018 Wed	5/10/2018 Thu	5/11/2018 Fri	Weekday Average	5/12/2018 Sat	5/13/2018 Sun
12:00 AM	*	198	183	*	*	190	*	*
01:00	*	94	98	*	*	96	*	*
02:00	*	73	75	*	*	74	*	*
03:00	*	93	106	*	*	100	*	*
04:00	*	265	270	*	*	268	*	*
05:00	*	816	799	*	*	808	*	*
06:00	*	1964	1960	*	*	1962	*	*
07:00	*	<b>2977</b>	<b>2948</b>	*	*	2962	*	*
08:00	*	2565	2762	*	*	2664	*	*
09:00	*	1854	1678	*	*	1766	*	*
10:00	*	1378	1356	*	*	1367	*	*
11:00	*	1397	1386	*	*	1392	*	*
12:00 PM	*	1419	1496	*	*	1458	*	*
01:00	*	1610	1660	*	*	1635	*	*
02:00	*	2076	2227	*	*	2152	*	*
03:00	*	2678	2716	*	*	2697	*	*
04:00	*	2996	3090	*	*	3043	*	*
05:00	*	<b>3090</b>	<b>3108</b>	*	*	3099	*	*
06:00	*	2650	2398	*	*	2524	*	*
07:00	*	1870	1758	*	*	1814	*	*
08:00	*	1215	1262	*	*	1238	*	*
09:00	*	919	1041	*	*	980	*	*
10:00	*	745	720	*	*	732	*	*
11:00	*	435	392	*	*	414	*	*
Total	0	35377	35489	0	0		0	0
Percentage	0.0%	99.8%	100.2%	0.0%	0.0%		0.0%	0.0%
AM Peak	-	07:00	07:00	-	-	-	-	-
Vol.	-	2977	2948	-	-	-	-	-
PM Peak	-	17:00	17:00	-	-	-	-	-
Vol.	-	3090	3108	-	-	-	-	-
Total		35377	35489					

# ALL TRAFFIC DATA SERVICES

9660 W. 44TH AVE  
WHEAT RIDGE, CO 80033  
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3  
Date Start: 5/8/2018  
Date End: 5/9/2018  
Site Code: 3  
MISSION BLVD S.O DECOTO RD

Start Time	5/7/2018 Mon	5/8/2018 Tue	5/9/2018 Wed	5/10/2018 Thu	5/11/2018 Fri	Weekday Average	5/12/2018 Sat	5/13/2018 Sun
12:00 AM	*	159	152	*	*	156	*	*
01:00	*	66	77	*	*	72	*	*
02:00	*	60	58	*	*	59	*	*
03:00	*	78	76	*	*	77	*	*
04:00	*	184	205	*	*	194	*	*
05:00	*	613	619	*	*	616	*	*
06:00	*	1552	1562	*	*	1557	*	*
07:00	*	<b>2457</b>	<b>2470</b>	*	*	2464	*	*
08:00	*	2140	2311	*	*	2226	*	*
09:00	*	1588	1458	*	*	1523	*	*
10:00	*	1182	1154	*	*	1168	*	*
11:00	*	1115	1166	*	*	1140	*	*
12:00 PM	*	1178	1163	*	*	1170	*	*
01:00	*	1244	1352	*	*	1298	*	*
02:00	*	1634	1752	*	*	1693	*	*
03:00	*	2025	2036	*	*	2030	*	*
04:00	*	2276	2318	*	*	2297	*	*
05:00	*	<b>2432</b>	<b>2410</b>	*	*	2421	*	*
06:00	*	2073	1938	*	*	2006	*	*
07:00	*	1423	1414	*	*	1418	*	*
08:00	*	946	973	*	*	960	*	*
09:00	*	708	823	*	*	766	*	*
10:00	*	602	590	*	*	596	*	*
11:00	*	377	313	*	*	345	*	*
Total	0	28112	28390	0	0		0	0
Percentage	0.0%	99.5%	100.5%	0.0%	0.0%		0.0%	0.0%
AM Peak	-	07:00	07:00	-	-	-	-	-
Vol.	-	2457	2470	-	-	-	-	-
PM Peak	-	17:00	17:00	-	-	-	-	-
Vol.	-	2432	2410	-	-	-	-	-
Total		28112	28390					

# ALL TRAFFIC DATA SERVICES

9660 W. 44TH AVE  
WHEAT RIDGE, CO 80033  
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4  
Date Start: 5/8/2018  
Date End: 5/9/2018  
Site Code: 4  
WHIPPLE RD W.O I-880

Start Time	5/7/2018 Mon	5/8/2018 Tue	5/9/2018 Wed	5/10/2018 Thu	5/11/2018 Fri	Weekday Average	5/12/2018 Sat	5/13/2018 Sun
12:00 AM	*	153	208	*	*	180	*	*
01:00	*	101	134	*	*	118	*	*
02:00	*	155	153	*	*	154	*	*
03:00	*	243	214	*	*	228	*	*
04:00	*	463	443	*	*	453	*	*
05:00	*	778	783	*	*	780	*	*
06:00	*	1198	1188	*	*	1193	*	*
07:00	*	1669	1633	*	*	1651	*	*
08:00	*	<b>1981</b>	<b>1917</b>	*	*	1949	*	*
09:00	*	1636	1568	*	*	1602	*	*
10:00	*	1625	1530	*	*	1578	*	*
11:00	*	1748	1686	*	*	1717	*	*
12:00 PM	*	1965	1958	*	*	1962	*	*
01:00	*	1811	1780	*	*	1796	*	*
02:00	*	1891	1877	*	*	1884	*	*
03:00	*	1816	1942	*	*	1879	*	*
04:00	*	1772	1763	*	*	1768	*	*
05:00	*	<b>1980</b>	<b>1989</b>	*	*	1984	*	*
06:00	*	1573	1489	*	*	1531	*	*
07:00	*	1176	1289	*	*	1232	*	*
08:00	*	935	958	*	*	946	*	*
09:00	*	678	755	*	*	716	*	*
10:00	*	494	491	*	*	492	*	*
11:00	*	301	293	*	*	297	*	*
Total	0	28142	28041	0	0		0	0
Percentage	0.0%	100.2%	99.8%	0.0%	0.0%		0.0%	0.0%
AM Peak	-	08:00	08:00	-	-	-	-	-
Vol.	-	1981	1917	-	-	-	-	-
PM Peak	-	17:00	17:00	-	-	-	-	-
Vol.	-	1980	1989	-	-	-	-	-
Total		28142	28041					

# ALL TRAFFIC DATA SERVICES

9660 W. 44TH AVE  
WHEAT RIDGE, CO 80033  
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5  
Date Start: 5/22/2018  
Date End: 5/23/2018  
Site Code: 5  
WHIPPLE RD E.O I-880

Start Time	5/21/2018 Mon	5/22/2018 Tue	5/23/2018 Wed	5/24/2018 Thu	5/25/2018 Fri	Weekday Average	5/26/2018 Sat	5/27/2018 Sun
12:00 AM	*	467	442	*	*	454	*	*
01:00	*	350	347	*	*	348	*	*
02:00	*	344	357	*	*	350	*	*
03:00	*	514	491	*	*	502	*	*
04:00	*	939	937	*	*	938	*	*
05:00	*	1668	1683	*	*	1676	*	*
06:00	*	1839	1816	*	*	1828	*	*
07:00	*	2150	2269	*	*	2210	*	*
08:00	*	<b>2315</b>	<b>2388</b>	*	*	2352	*	*
09:00	*	2143	2128	*	*	2136	*	*
10:00	*	2190	2090	*	*	2140	*	*
11:00	*	2286	2199	*	*	2242	*	*
12:00 PM	*	2465	2414	*	*	2440	*	*
01:00	*	2484	2424	*	*	2454	*	*
02:00	*	2440	2422	*	*	2431	*	*
03:00	*	2442	2332	*	*	2387	*	*
04:00	*	2374	2397	*	*	2386	*	*
05:00	*	<b>2543</b>	<b>2488</b>	*	*	2516	*	*
06:00	*	2166	2094	*	*	2130	*	*
07:00	*	1883	1993	*	*	1938	*	*
08:00	*	1608	1688	*	*	1648	*	*
09:00	*	1469	1488	*	*	1478	*	*
10:00	*	988	1016	*	*	1002	*	*
11:00	*	660	708	*	*	684	*	*
Total	0	40727	40611	0	0		0	0
Percentage	0.0%	100.1%	99.9%	0.0%	0.0%		0.0%	0.0%
AM Peak	-	08:00	08:00	-	-	-	-	-
Vol.	-	2315	2388	-	-	-	-	-
PM Peak	-	17:00	17:00	-	-	-	-	-
Vol.	-	2543	2488	-	-	-	-	-
Total		40727	40611					

# ALL TRAFFIC DATA SERVICES

9660 W. 44TH AVE  
WHEAT RIDGE, CO 80033  
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6  
Date Start: 5/8/2018  
Date End: 5/9/2018  
Site Code: 6  
WHIPPLE RD W.O MISSION BLVD

Start Time	5/7/2018 Mon	5/8/2018 Tue	5/9/2018 Wed	5/10/2018 Thu	5/11/2018 Fri	Weekday Average	5/12/2018 Sat	5/13/2018 Sun
12:00 AM	*	66	71	*	*	68	*	*
01:00	*	36	49	*	*	42	*	*
02:00	*	33	41	*	*	37	*	*
03:00	*	49	53	*	*	51	*	*
04:00	*	126	135	*	*	130	*	*
05:00	*	318	313	*	*	316	*	*
06:00	*	452	447	*	*	450	*	*
07:00	*	684	681	*	*	682	*	*
08:00	*	<b>712</b>	<b>748</b>	*	*	730	*	*
09:00	*	601	549	*	*	575	*	*
10:00	*	471	444	*	*	458	*	*
11:00	*	556	490	*	*	523	*	*
12:00 PM	*	542	561	*	*	552	*	*
01:00	*	607	648	*	*	628	*	*
02:00	*	716	695	*	*	706	*	*
03:00	*	724	747	*	*	736	*	*
04:00	*	790	786	*	*	788	*	*
05:00	*	<b>840</b>	<b>832</b>	*	*	836	*	*
06:00	*	763	764	*	*	764	*	*
07:00	*	588	583	*	*	586	*	*
08:00	*	420	436	*	*	428	*	*
09:00	*	339	344	*	*	342	*	*
10:00	*	247	208	*	*	228	*	*
11:00	*	136	130	*	*	133	*	*
Total	0	10816	10755	0	0		0	0
Percentage	0.0%	100.3%	99.7%	0.0%	0.0%		0.0%	0.0%
AM Peak	-	08:00	08:00	-	-	-	-	-
Vol.	-	712	748	-	-	-	-	-
PM Peak	-	17:00	17:00	-	-	-	-	-
Vol.	-	840	832	-	-	-	-	-
Total		10816	10755					

# ALL TRAFFIC DATA SERVICES

9660 W. 44TH AVE  
WHEAT RIDGE, CO 80033  
www.ALLTRAFFICDATA.NET

7  
Date Start: 5/8/2018  
Date End: 5/9/2018  
Site Code: 7  
UNION CITY BLVD N.O WHIPPLE RD

Start Time	5/7/2018 Mon	5/8/2018 Tue	5/9/2018 Wed	5/10/2018 Thu	5/11/2018 Fri	Weekday Average	5/12/2018 Sat	5/13/2018 Sun
12:00 AM	*	162	180	*	*	171	*	*
01:00	*	81	91	*	*	86	*	*
02:00	*	92	85	*	*	88	*	*
03:00	*	138	123	*	*	130	*	*
04:00	*	282	282	*	*	282	*	*
05:00	*	1078	1008	*	*	1043	*	*
06:00	*	2380	2480	*	*	2430	*	*
07:00	*	<b>3173</b>	<b>3193</b>	*	*	3183	*	*
08:00	*	3008	2911	*	*	2960	*	*
09:00	*	1940	1861	*	*	1900	*	*
10:00	*	1592	1492	*	*	1542	*	*
11:00	*	1587	1580	*	*	1584	*	*
12:00 PM	*	1679	1692	*	*	1686	*	*
01:00	*	1724	1849	*	*	1786	*	*
02:00	*	2292	2321	*	*	2306	*	*
03:00	*	2813	2781	*	*	2797	*	*
04:00	*	2841	2914	*	*	2878	*	*
05:00	*	<b>2952</b>	<b>2936</b>	*	*	2944	*	*
06:00	*	2819	2674	*	*	2746	*	*
07:00	*	2041	1956	*	*	1998	*	*
08:00	*	1255	1305	*	*	1280	*	*
09:00	*	1077	1256	*	*	1166	*	*
10:00	*	869	843	*	*	856	*	*
11:00	*	406	364	*	*	385	*	*
Total	0	38281	38177	0	0		0	0
Percentage	0.0%	100.1%	99.9%	0.0%	0.0%		0.0%	0.0%
AM Peak	-	07:00	07:00	-	-	-	-	-
Vol.	-	3173	3193	-	-	-	-	-
PM Peak	-	17:00	17:00	-	-	-	-	-
Vol.	-	2952	2936	-	-	-	-	-
Total		38281	38177					



# ALL TRAFFIC DATA SERVICES

9660 W. 44TH AVE  
WHEAT RIDGE, CO 80033  
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8  
Date Start: 5/8/2018  
Date End: 5/9/2018  
Site Code: 8  
UNION CITY BLVD N.O SMITH ST

Start Time	5/7/2018 Mon	5/8/2018 Tue	5/9/2018 Wed	5/10/2018 Thu	5/11/2018 Fri	Weekday Average	5/12/2018 Sat	5/13/2018 Sun
12:00 AM	*	123	111	*	*	117	*	*
01:00	*	66	73	*	*	70	*	*
02:00	*	48	69	*	*	58	*	*
03:00	*	92	75	*	*	84	*	*
04:00	*	149	161	*	*	155	*	*
05:00	*	679	635	*	*	657	*	*
06:00	*	1729	1710	*	*	1720	*	*
07:00	*	2463	2614	*	*	2538	*	*
08:00	*	2514	2448	*	*	2481	*	*
09:00	*	1648	1479	*	*	1564	*	*
10:00	*	1157	1116	*	*	1136	*	*
11:00	*	1166	1122	*	*	1144	*	*
12:00 PM	*	1354	1415	*	*	1384	*	*
01:00	*	1340	1463	*	*	1402	*	*
02:00	*	1637	1726	*	*	1682	*	*
03:00	*	2301	2264	*	*	2282	*	*
04:00	*	2368	2368	*	*	2368	*	*
05:00	*	2476	2390	*	*	2433	*	*
06:00	*	2254	2197	*	*	2226	*	*
07:00	*	1626	1534	*	*	1580	*	*
08:00	*	898	998	*	*	948	*	*
09:00	*	733	862	*	*	798	*	*
10:00	*	640	643	*	*	642	*	*
11:00	*	316	281	*	*	298	*	*
Total	0	29777	29754	0	0		0	0
Percentage	0.0%	100.0%	100.0%	0.0%	0.0%		0.0%	0.0%
AM Peak	-	08:00	07:00	-	-	-	-	-
Vol.	-	2514	2614	-	-	-	-	-
PM Peak	-	17:00	17:00	-	-	-	-	-
Vol.	-	2476	2390	-	-	-	-	-
Total		29777	29754					

# ALL TRAFFIC DATA SERVICES

9660 W. 44TH AVE  
WHEAT RIDGE, CO 80033  
www.ALLTRAFFICDATA.NET

9  
Date Start: 5/8/2018  
Date End: 5/9/2018  
Site Code: 9  
UNION CITY BLVD N.O DYER ST

Start Time	5/7/2018 Mon	5/8/2018 Tue	5/9/2018 Wed	5/10/2018 Thu	5/11/2018 Fri	Weekday Average	5/12/2018 Sat	5/13/2018 Sun
12:00 AM	*	53	52	*	*	52	*	*
01:00	*	34	28	*	*	31	*	*
02:00	*	21	24	*	*	22	*	*
03:00	*	36	32	*	*	34	*	*
04:00	*	95	100	*	*	98	*	*
05:00	*	450	423	*	*	436	*	*
06:00	*	1363	1363	*	*	1363	*	*
07:00	*	<b>1649</b>	<b>1732</b>	*	*	1690	*	*
08:00	*	1583	1549	*	*	1566	*	*
09:00	*	913	875	*	*	894	*	*
10:00	*	460	487	*	*	474	*	*
11:00	*	470	464	*	*	467	*	*
12:00 PM	*	501	492	*	*	496	*	*
01:00	*	608	634	*	*	621	*	*
02:00	*	956	1044	*	*	1000	*	*
03:00	*	1473	1432	*	*	1452	*	*
04:00	*	<b>1512</b>	1473	*	*	1492	*	*
05:00	*	1488	<b>1499</b>	*	*	1494	*	*
06:00	*	1383	1263	*	*	1323	*	*
07:00	*	954	905	*	*	930	*	*
08:00	*	379	502	*	*	440	*	*
09:00	*	382	451	*	*	416	*	*
10:00	*	302	287	*	*	294	*	*
11:00	*	132	128	*	*	130	*	*
Total	0	17197	17239	0	0		0	0
Percentage	0.0%	99.9%	100.1%	0.0%	0.0%		0.0%	0.0%
AM Peak	-	07:00	07:00	-	-	-	-	-
Vol.	-	1649	1732	-	-	-	-	-
PM Peak	-	16:00	17:00	-	-	-	-	-
Vol.	-	1512	1499	-	-	-	-	-
Total		17197	17239					

# ALL TRAFFIC DATA SERVICES

9660 W. 44TH AVE  
WHEAT RIDGE, CO 80033  
www.ALLTRAFFICDATA.NET

10  
Date Start: 5/8/2018  
Date End: 5/9/2018  
Site Code: 10

UNION CITY BLVD N.O PASEO PADRE PKWY

Start Time	5/7/2018 Mon	5/8/2018 Tue	5/9/2018 Wed	5/10/2018 Thu	5/11/2018 Fri	Weekday Average	5/12/2018 Sat	5/13/2018 Sun
12:00 AM	*	84	97	*	*	90	*	*
01:00	*	52	52	*	*	52	*	*
02:00	*	31	38	*	*	34	*	*
03:00	*	41	39	*	*	40	*	*
04:00	*	127	127	*	*	127	*	*
05:00	*	588	530	*	*	559	*	*
06:00	*	1756	1745	*	*	1750	*	*
07:00	*	1880	1934	*	*	1907	*	*
08:00	*	<b>2085</b>	<b>2024</b>	*	*	2054	*	*
09:00	*	1259	1222	*	*	1240	*	*
10:00	*	675	697	*	*	686	*	*
11:00	*	676	642	*	*	659	*	*
12:00 PM	*	768	721	*	*	744	*	*
01:00	*	816	819	*	*	818	*	*
02:00	*	1233	1316	*	*	1274	*	*
03:00	*	2062	2064	*	*	2063	*	*
04:00	*	2250	2218	*	*	2234	*	*
05:00	*	<b>2310</b>	<b>2317</b>	*	*	2314	*	*
06:00	*	2164	1904	*	*	2034	*	*
07:00	*	1439	1380	*	*	1410	*	*
08:00	*	623	764	*	*	694	*	*
09:00	*	562	578	*	*	570	*	*
10:00	*	411	394	*	*	402	*	*
11:00	*	207	178	*	*	192	*	*
Total	0	24099	23800	0	0		0	0
Percentage	0.0%	100.6%	99.4%	0.0%	0.0%		0.0%	0.0%
AM Peak	-	08:00	08:00	-	-	-	-	-
Vol.	-	2085	2024	-	-	-	-	-
PM Peak	-	17:00	17:00	-	-	-	-	-
Vol.	-	2310	2317	-	-	-	-	-
Total		24099	23800					

# ALL TRAFFIC DATA SERVICES

9660 W. 44TH AVE  
WHEAT RIDGE, CO 80033  
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11  
Date Start: 5/8/2018  
Date End: 5/9/2018  
Site Code: 11  
DYER ST N.O SMITH ST

Start Time	5/7/2018 Mon	5/8/2018 Tue	5/9/2018 Wed	5/10/2018 Thu	5/11/2018 Fri	Weekday Average	5/12/2018 Sat	5/13/2018 Sun
12:00 AM	*	187	267	*	*	227	*	*
01:00	*	98	156	*	*	127	*	*
02:00	*	39	112	*	*	76	*	*
03:00	*	66	94	*	*	80	*	*
04:00	*	120	133	*	*	126	*	*
05:00	*	275	300	*	*	288	*	*
06:00	*	623	634	*	*	628	*	*
07:00	*	1395	1459	*	*	1427	*	*
08:00	*	1471	1454	*	*	1462	*	*
09:00	*	1049	1018	*	*	1034	*	*
10:00	*	1075	1016	*	*	1046	*	*
11:00	*	1278	1218	*	*	1248	*	*
12:00 PM	*	1442	1376	*	*	1409	*	*
01:00	*	1256	1262	*	*	1259	*	*
02:00	*	1501	1414	*	*	1458	*	*
03:00	*	1745	1637	*	*	1691	*	*
04:00	*	1900	1797	*	*	1848	*	*
05:00	*	1969	1829	*	*	1899	*	*
06:00	*	1951	1624	*	*	1788	*	*
07:00	*	1492	1407	*	*	1450	*	*
08:00	*	1074	1118	*	*	1096	*	*
09:00	*	843	814	*	*	828	*	*
10:00	*	646	540	*	*	593	*	*
11:00	*	369	288	*	*	328	*	*
Total	0	23864	22967	0	0		0	0
Percentage	0.0%	101.9%	98.1%	0.0%	0.0%		0.0%	0.0%
AM Peak	-	08:00	07:00	-	-	-	-	-
Vol.	-	1471	1459	-	-	-	-	-
PM Peak	-	17:00	17:00	-	-	-	-	-
Vol.	-	1969	1829	-	-	-	-	-
Total		23864	22967					

# ALL TRAFFIC DATA SERVICES

9660 W. 44TH AVE  
WHEAT RIDGE, CO 80033  
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12  
Date Start: 5/8/2018  
Date End: 5/9/2018  
Site Code: 12  
DYER ST N.O ALVARADO BLVD

Start Time	5/7/2018 Mon	5/8/2018 Tue	5/9/2018 Wed	5/10/2018 Thu	5/11/2018 Fri	Weekday Average	5/12/2018 Sat	5/13/2018 Sun
12:00 AM	*	202	215	*	*	208	*	*
01:00	*	113	114	*	*	114	*	*
02:00	*	43	70	*	*	56	*	*
03:00	*	55	78	*	*	66	*	*
04:00	*	115	131	*	*	123	*	*
05:00	*	305	320	*	*	312	*	*
06:00	*	741	726	*	*	734	*	*
07:00	*	1530	1596	*	*	1563	*	*
08:00	*	1564	1491	*	*	1528	*	*
09:00	*	1169	1189	*	*	1179	*	*
10:00	*	1081	1097	*	*	1089	*	*
11:00	*	1277	1305	*	*	1291	*	*
12:00 PM	*	1381	1360	*	*	1370	*	*
01:00	*	1314	1397	*	*	1356	*	*
02:00	*	1502	1515	*	*	1508	*	*
03:00	*	1728	1711	*	*	1720	*	*
04:00	*	1742	1815	*	*	1778	*	*
05:00	*	1846	1893	*	*	1870	*	*
06:00	*	1818	1728	*	*	1773	*	*
07:00	*	1536	1392	*	*	1464	*	*
08:00	*	1086	1119	*	*	1102	*	*
09:00	*	829	835	*	*	832	*	*
10:00	*	636	558	*	*	597	*	*
11:00	*	374	343	*	*	358	*	*
Total	0	23987	23998	0	0		0	0
Percentage	0.0%	100.0%	100.0%	0.0%	0.0%		0.0%	0.0%
AM Peak	-	08:00	07:00	-	-	-	-	-
Vol.	-	1564	1596	-	-	-	-	-
PM Peak	-	17:00	17:00	-	-	-	-	-
Vol.	-	1846	1893	-	-	-	-	-
Total		23987	23998					

# ALL TRAFFIC DATA SERVICES

9660 W. 44TH AVE  
WHEAT RIDGE, CO 80033  
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13  
Date Start: 5/8/2018  
Date End: 5/9/2018  
Site Code: 13  
DYER ST S.O ALVARADO BLVD

Start Time	5/7/2018 Mon	5/8/2018 Tue	5/9/2018 Wed	5/10/2018 Thu	5/11/2018 Fri	Weekday Average	5/12/2018 Sat	5/13/2018 Sun
12:00 AM	*	134	143	*	*	138	*	*
01:00	*	70	53	*	*	62	*	*
02:00	*	29	48	*	*	38	*	*
03:00	*	45	49	*	*	47	*	*
04:00	*	94	118	*	*	106	*	*
05:00	*	274	266	*	*	270	*	*
06:00	*	671	662	*	*	666	*	*
07:00	*	<b>1141</b>	<b>1187</b>	*	*	1164	*	*
08:00	*	1125	1152	*	*	1138	*	*
09:00	*	784	719	*	*	752	*	*
10:00	*	636	680	*	*	658	*	*
11:00	*	785	841	*	*	813	*	*
12:00 PM	*	843	886	*	*	864	*	*
01:00	*	846	890	*	*	868	*	*
02:00	*	1062	1116	*	*	1089	*	*
03:00	*	1328	1265	*	*	1296	*	*
04:00	*	1493	1397	*	*	1445	*	*
05:00	*	<b>1632</b>	<b>1417</b>	*	*	1524	*	*
06:00	*	1448	1404	*	*	1426	*	*
07:00	*	1038	1042	*	*	1040	*	*
08:00	*	742	878	*	*	810	*	*
09:00	*	559	582	*	*	570	*	*
10:00	*	398	396	*	*	397	*	*
11:00	*	235	221	*	*	228	*	*
Total	0	17412	17412	0	0		0	0
Percentage	0.0%	100.0%	100.0%	0.0%	0.0%		0.0%	0.0%
AM Peak	-	07:00	07:00	-	-	-	-	-
Vol.	-	1141	1187	-	-	-	-	-
PM Peak	-	17:00	17:00	-	-	-	-	-
Vol.	-	1632	1417	-	-	-	-	-
Total		17412	17412					

# ALL TRAFFIC DATA SERVICES

9660 W. 44TH AVE  
WHEAT RIDGE, CO 80033  
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14  
Date Start: 5/22/2018  
Date End: 5/23/2018  
Site Code: 14  
SMITH ST W.O DYER ST

Start Time	5/21/2018 Mon	5/22/2018 Tue	5/23/2018 Wed	5/24/2018 Thu	5/25/2018 Fri	Weekday Average	5/26/2018 Sat	5/27/2018 Sun
12:00 AM	*	76	135	*	*	106	*	*
01:00	*	57	57	*	*	57	*	*
02:00	*	41	45	*	*	43	*	*
03:00	*	52	59	*	*	56	*	*
04:00	*	140	128	*	*	134	*	*
05:00	*	292	308	*	*	300	*	*
06:00	*	488	489	*	*	488	*	*
07:00	*	<b>968</b>	<b>1049</b>	*	*	1008	*	*
08:00	*	762	761	*	*	762	*	*
09:00	*	545	512	*	*	528	*	*
10:00	*	540	533	*	*	536	*	*
11:00	*	657	598	*	*	628	*	*
12:00 PM	*	730	742	*	*	736	*	*
01:00	*	838	863	*	*	850	*	*
02:00	*	862	1037	*	*	950	*	*
03:00	*	1016	906	*	*	961	*	*
04:00	*	1034	997	*	*	1016	*	*
05:00	*	<b>1210</b>	1059	*	*	1134	*	*
06:00	*	887	<b>1076</b>	*	*	982	*	*
07:00	*	664	837	*	*	750	*	*
08:00	*	561	640	*	*	600	*	*
09:00	*	522	488	*	*	505	*	*
10:00	*	279	330	*	*	304	*	*
11:00	*	207	198	*	*	202	*	*
Total	0	13428	13847	0	0		0	0
Percentage	0.0%	98.5%	101.5%	0.0%	0.0%		0.0%	0.0%
AM Peak	-	07:00	07:00	-	-	-	-	-
Vol.	-	968	1049	-	-	-	-	-
PM Peak	-	17:00	18:00	-	-	-	-	-
Vol.	-	1210	1076	-	-	-	-	-
Total		13428	13847					

# ALL TRAFFIC DATA SERVICES

9660 W. 44TH AVE  
WHEAT RIDGE, CO 80033  
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15  
Date Start: 5/8/2018  
Date End: 5/9/2018  
Site Code: 15  
ALVARADO-NILES RD W.O I-880

Start Time	5/7/2018 Mon	5/8/2018 Tue	5/9/2018 Wed	5/10/2018 Thu	5/11/2018 Fri	Weekday Average	5/12/2018 Sat	5/13/2018 Sun
12:00 AM	*	362	545	*	*	454	*	*
01:00	*	178	275	*	*	226	*	*
02:00	*	129	173	*	*	151	*	*
03:00	*	128	160	*	*	144	*	*
04:00	*	263	292	*	*	278	*	*
05:00	*	645	657	*	*	651	*	*
06:00	*	1171	1178	*	*	1174	*	*
07:00	*	<b>2069</b>	<b>2143</b>	*	*	2106	*	*
08:00	*	1815	1807	*	*	1811	*	*
09:00	*	1450	1461	*	*	1456	*	*
10:00	*	1605	1596	*	*	1600	*	*
11:00	*	1941	1864	*	*	1902	*	*
12:00 PM	*	2058	2065	*	*	2062	*	*
01:00	*	2102	2232	*	*	2167	*	*
02:00	*	2165	2374	*	*	2270	*	*
03:00	*	2366	1985	*	*	2176	*	*
04:00	*	2350	2234	*	*	2292	*	*
05:00	*	<b>2646</b>	2348	*	*	2497	*	*
06:00	*	2447	<b>2409</b>	*	*	2428	*	*
07:00	*	2074	2016	*	*	2045	*	*
08:00	*	1720	1773	*	*	1746	*	*
09:00	*	1323	1300	*	*	1312	*	*
10:00	*	1023	914	*	*	968	*	*
11:00	*	734	610	*	*	672	*	*
Total	0	34764	34411	0	0		0	0
Percentage	0.0%	100.5%	99.5%	0.0%	0.0%		0.0%	0.0%
AM Peak	-	07:00	07:00	-	-	-	-	-
Vol.	-	2069	2143	-	-	-	-	-
PM Peak	-	17:00	18:00	-	-	-	-	-
Vol.	-	2646	2409	-	-	-	-	-
Total		34764	34411					



# ALL TRAFFIC DATA SERVICES

9660 W. 44TH AVE  
WHEAT RIDGE, CO 80033  
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16  
Date Start: 5/22/2018  
Date End: 5/23/2018  
Site Code: 16  
ALVARADO NILES RD E.O I-880

Start Time	5/21/2018 Mon	5/22/2018 Tue	5/23/2018 Wed	5/24/2018 Thu	5/25/2018 Fri	Weekday Average	5/26/2018 Sat	5/27/2018 Sun
12:00 AM	*	371	545	*	*	458	*	*
01:00	*	194	316	*	*	255	*	*
02:00	*	138	220	*	*	179	*	*
03:00	*	293	291	*	*	292	*	*
04:00	*	632	682	*	*	657	*	*
05:00	*	1298	1303	*	*	1300	*	*
06:00	*	1716	1689	*	*	1702	*	*
07:00	*	<b>2933</b>	<b>2959</b>	*	*	2946	*	*
08:00	*	2489	2468	*	*	2478	*	*
09:00	*	2205	2149	*	*	2177	*	*
10:00	*	2232	2154	*	*	2193	*	*
11:00	*	2368	2374	*	*	2371	*	*
12:00 PM	*	2534	2494	*	*	2514	*	*
01:00	*	2718	2930	*	*	2824	*	*
02:00	*	2896	3026	*	*	2961	*	*
03:00	*	3087	2575	*	*	2831	*	*
04:00	*	3016	2889	*	*	2952	*	*
05:00	*	<b>3278</b>	<b>3140</b>	*	*	3209	*	*
06:00	*	2832	2915	*	*	2874	*	*
07:00	*	2165	2260	*	*	2212	*	*
08:00	*	2050	1980	*	*	2015	*	*
09:00	*	1631	1492	*	*	1562	*	*
10:00	*	995	1010	*	*	1002	*	*
11:00	*	814	617	*	*	716	*	*
Total	0	44885	44478	0	0		0	0
Percentage	0.0%	100.5%	99.5%	0.0%	0.0%		0.0%	0.0%
AM Peak	-	07:00	07:00	-	-	-	-	-
Vol.	-	2933	2959	-	-	-	-	-
PM Peak	-	17:00	17:00	-	-	-	-	-
Vol.	-	3278	3140	-	-	-	-	-
Total		44885	44478					

# ALL TRAFFIC DATA SERVICES

9660 W. 44TH AVE  
WHEAT RIDGE, CO 80033  
www.ALLTRAFFICDATA.NET

17  
Date Start: 5/8/2018  
Date End: 5/9/2018  
Site Code: 17

ALVARDO-NILES RD W.O DECOTO RD

Start Time	5/7/2018 Mon	5/8/2018 Tue	5/9/2018 Wed	5/10/2018 Thu	5/11/2018 Fri	Weekday Average	5/12/2018 Sat	5/13/2018 Sun
12:00 AM	*	175	154	*	*	164	*	*
01:00	*	88	96	*	*	92	*	*
02:00	*	73	64	*	*	68	*	*
03:00	*	77	86	*	*	82	*	*
04:00	*	170	168	*	*	169	*	*
05:00	*	430	457	*	*	444	*	*
06:00	*	757	768	*	*	762	*	*
07:00	*	1520	1488	*	*	1504	*	*
08:00	*	<b>1574</b>	<b>1624</b>	*	*	1599	*	*
09:00	*	1144	1091	*	*	1118	*	*
10:00	*	1187	1114	*	*	1150	*	*
11:00	*	1311	1334	*	*	1322	*	*
12:00 PM	*	1410	1377	*	*	1394	*	*
01:00	*	1366	1516	*	*	1441	*	*
02:00	*	1466	1673	*	*	1570	*	*
03:00	*	1846	1626	*	*	1736	*	*
04:00	*	1863	1855	*	*	1859	*	*
05:00	*	<b>2052</b>	<b>1948</b>	*	*	2000	*	*
06:00	*	1812	1852	*	*	1832	*	*
07:00	*	1350	1412	*	*	1381	*	*
08:00	*	1086	1163	*	*	1124	*	*
09:00	*	755	799	*	*	777	*	*
10:00	*	598	530	*	*	564	*	*
11:00	*	357	318	*	*	338	*	*
Total	0	24467	24513	0	0		0	0
Percentage	0.0%	99.9%	100.1%	0.0%	0.0%		0.0%	0.0%
AM Peak	-	08:00	08:00	-	-	-	-	-
Vol.	-	1574	1624	-	-	-	-	-
PM Peak	-	17:00	17:00	-	-	-	-	-
Vol.	-	2052	1948	-	-	-	-	-
Total		24467	24513					

# ALL TRAFFIC DATA SERVICES

9660 W. 44TH AVE  
 WHEAT RIDGE, CO 80033  
 www.ALLTRAFFICDATA.NET

18  
 Date Start: 5/22/2018  
 Date End: 5/23/2018  
 Site Code: 18  
 ALVARADO NILES RD E.O DECOTO RD

Start Time	5/21/2018 Mon	5/22/2018 Tue	5/23/2018 Wed	5/24/2018 Thu	5/25/2018 Fri	Weekday Average	5/26/2018 Sat	5/27/2018 Sun
12:00 AM	*	76	81	*	*	78	*	*
01:00	*	36	42	*	*	39	*	*
02:00	*	58	51	*	*	54	*	*
03:00	*	127	139	*	*	133	*	*
04:00	*	428	425	*	*	426	*	*
05:00	*	775	787	*	*	781	*	*
06:00	*	1164	1112	*	*	1138	*	*
07:00	*	<b>1383</b>	<b>1326</b>	*	*	1354	*	*
08:00	*	1098	1043	*	*	1070	*	*
09:00	*	964	912	*	*	938	*	*
10:00	*	1019	1006	*	*	1012	*	*
11:00	*	1038	1144	*	*	1091	*	*
12:00 PM	*	1174	1302	*	*	1238	*	*
01:00	*	1275	1445	*	*	1360	*	*
02:00	*	1501	1482	*	*	1492	*	*
03:00	*	1646	1602	*	*	1624	*	*
04:00	*	<b>1822</b>	<b>1772</b>	*	*	1797	*	*
05:00	*	1534	1700	*	*	1617	*	*
06:00	*	1169	1246	*	*	1208	*	*
07:00	*	852	996	*	*	924	*	*
08:00	*	788	718	*	*	753	*	*
09:00	*	499	437	*	*	468	*	*
10:00	*	256	280	*	*	268	*	*
11:00	*	153	152	*	*	152	*	*
Total	0	20835	21200	0	0		0	0
Percentage	0.0%	99.1%	100.9%	0.0%	0.0%		0.0%	0.0%
AM Peak	-	07:00	07:00	-	-	-	-	-
Vol.	-	1383	1326	-	-	-	-	-
PM Peak	-	16:00	16:00	-	-	-	-	-
Vol.	-	1822	1772	-	-	-	-	-
Total		20835	21200					

# ALL TRAFFIC DATA SERVICES

9660 W. 44TH AVE  
WHEAT RIDGE, CO 80033  
www.ALLTRAFFICDATA.NET

19  
Date Start: 5/8/2018  
Date End: 5/9/2018  
Site Code: 19  
ALVARADO BLVD W.O DYER ST

Start Time	5/7/2018 Mon	5/8/2018 Tue	5/9/2018 Wed	5/10/2018 Thu	5/11/2018 Fri	Weekday Average	5/12/2018 Sat	5/13/2018 Sun
12:00 AM	*	104	99	*	*	102	*	*
01:00	*	57	40	*	*	48	*	*
02:00	*	21	30	*	*	26	*	*
03:00	*	50	38	*	*	44	*	*
04:00	*	101	97	*	*	99	*	*
05:00	*	220	229	*	*	224	*	*
06:00	*	455	443	*	*	449	*	*
07:00	*	1044	1003	*	*	1024	*	*
08:00	*	<b>1363</b>	<b>1419</b>	*	*	1391	*	*
09:00	*	798	788	*	*	793	*	*
10:00	*	806	806	*	*	806	*	*
11:00	*	1102	1119	*	*	1110	*	*
12:00 PM	*	1190	1184	*	*	1187	*	*
01:00	*	1024	1064	*	*	1044	*	*
02:00	*	1089	1107	*	*	1098	*	*
03:00	*	1169	1142	*	*	1156	*	*
04:00	*	1236	1216	*	*	1226	*	*
05:00	*	<b>1344</b>	<b>1318</b>	*	*	1331	*	*
06:00	*	1276	1257	*	*	1266	*	*
07:00	*	1073	984	*	*	1028	*	*
08:00	*	700	739	*	*	720	*	*
09:00	*	483	516	*	*	500	*	*
10:00	*	372	318	*	*	345	*	*
11:00	*	166	185	*	*	176	*	*
Total	0	17243	17141	0	0		0	0
Percentage	0.0%	100.3%	99.7%	0.0%	0.0%		0.0%	0.0%
AM Peak	-	08:00	08:00	-	-	-	-	-
Vol.	-	1363	1419	-	-	-	-	-
PM Peak	-	17:00	17:00	-	-	-	-	-
Vol.	-	1344	1318	-	-	-	-	-
Total		17243	17141					



(303) 216-2439  
www.alltrafficdata.net

Location: ~~X~~ DECOTO RD

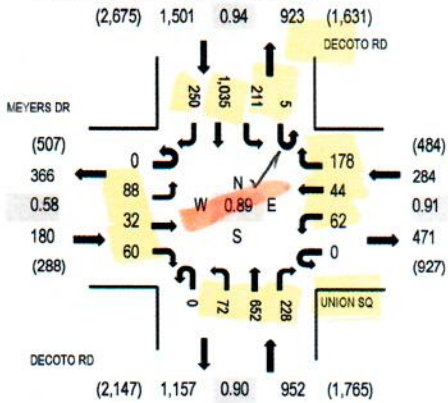
N/O ALVARADO-NILES

Date and Start Time: Tuesday, May 02, 2017

Peak Hour: 07:15 AM - 08:15 AM

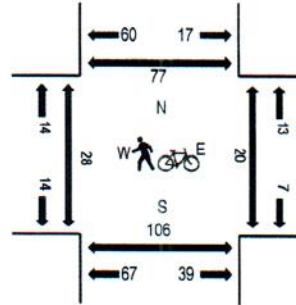
Peak 15-Minutes: 08:00 AM - 08:15 AM

**Peak Hour - All Vehicles**



Note: Total study counts contained in parentheses.

**Peak Hour - Pedestrians/Bicycles in Crosswalk**



**Traffic Counts**

Interval Start Time	MEYERS DR Eastbound				UNION SQ Westbound				DECOTO RD Northbound				DECOTO RD Southbound				Total	Rolling Hour	Pedestrian Crossings			
	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right			West	East	South	North
7:00 AM	0	14	18	11	0	12	8	9	0	1	68	100	0	61	217	36	555	2,650	0	3	8	11
7:15 AM	0	9	6	3	0	19	8	40	0	15	126	95	3	55	286	25	690	2,917	6	5	13	11
7:30 AM	0	19	4	8	0	16	9	49	0	10	172	41	0	53	263	56	700	2,872	9	2	22	19
7:45 AM	0	20	11	14	0	11	10	57	0	22	156	45	1	45	232	81	705	2,794	13	8	40	30
8:00 AM	0	40	11	35	0	16	17	32	0	25	198	47	1	53	254	88	822	2,562	0	5	31	17
8:15 AM	0	26	5	7	0	17	6	42	0	4	203	46	0	35	232	22	645		4	3	11	10
8:30 AM	0	11	3	3	0	28	5	32	0	10	157	60	1	43	250	19	622		1	2	11	18
8:45 AM	0	5	4	1	0	15	2	24	0	6	115	43	1	38	197	22	473		3	9	14	11

**Peak Rolling Hour Flow Rates**

Vehicle Type	Eastbound				Westbound				Northbound				Southbound				Total
	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	
Articulated Trucks	0	0	0	0	0	1	0	2	0	0	3	1	0	0	2	0	9
Lights	0	87	31	60	0	49	44	167	0	71	629	214	5	210	999	248	2,814
Mediums	0	1	1	0	0	12	0	9	0	1	20	13	0	1	34	2	94
<b>Total</b>	0	88	32	60	0	62	44	178	0	72	652	228	5	211	1,035	250	2,917



(303) 216-2439  
www.alltrafficdata.net

Location: ~~A~~ DECOTO RD

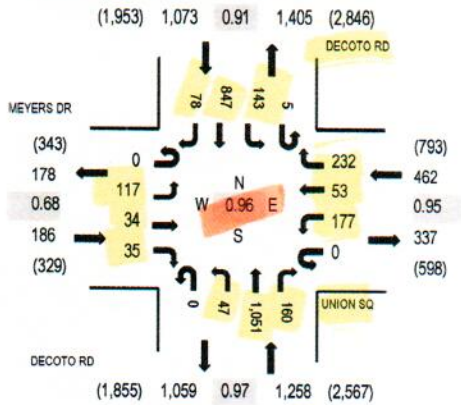
N/O ALVARADO - NILES

Date and Start Time: Tuesday, May 02, 2017

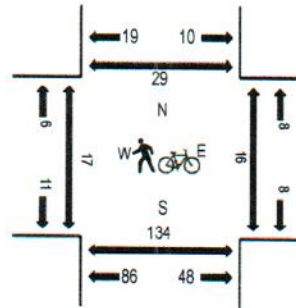
Peak Hour: 05:00 PM - 06:00 PM

Peak 15-Minutes: 05:15 PM - 05:30 PM

**Peak Hour - All Vehicles**



**Peak Hour - Pedestrians/Bicycles in Crosswalk**



Note: Total study counts contained in parentheses.

**Traffic Counts**

Interval Start Time	MEYERS DR Eastbound				UNION SQ Westbound				DECOTO RD Northbound				DECOTO RD Southbound				Total	Rolling Hour	Pedestrian Crossings			
	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right			West	East	South	North
4:00 PM	0	25	4	9	0	17	5	47	0	7	289	22	2	26	168	16	637	2,663	2	2	21	5
4:15 PM	0	17	8	2	0	22	3	49	0	12	297	32	0	27	141	21	631	2,750	0	7	21	3
4:30 PM	0	22	5	6	1	30	13	57	0	16	284	34	1	33	179	18	699	2,891	6	2	29	2
4:45 PM	0	30	10	5	0	35	5	47	0	18	272	26	2	33	182	31	696	2,957	4	3	21	6
5:00 PM	0	21	4	4	0	47	13	55	0	11	290	29	1	24	197	28	724	2,979	7	5	46	7
5:15 PM	0	35	8	3	0	45	14	56	0	8	259	50	0	35	234	25	772		3	2	26	6
5:30 PM	0	36	13	20	0	48	14	60	0	12	245	46	3	39	215	14	765		6	5	30	10
5:45 PM	0	25	9	8	0	37	12	61	0	16	257	35	1	45	201	11	718		1	0	32	6

**Peak Rolling Hour Flow Rates**

Vehicle Type	Eastbound				Westbound				Northbound				Southbound				Total
	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	
Articulated Trucks	0	0	0	0	0	0	0	0	0	0	0	1	0	0	2	0	3
Lights	0	116	34	35	0	165	53	222	0	47	1,017	148	5	142	832	77	2,893
Mediums	0	1	0	0	0	12	0	10	0	0	34	11	0	1	13	1	83
<b>Total</b>	0	117	34	35	0	177	53	232	0	47	1,051	160	5	143	847	78	2,979

# ALL TRAFFIC DATA SERVICES

9660 W. 44TH AVE  
WHEAT RIDGE, CO 80033  
www.ALLTRAFFICDATA.NET

21  
Date Start: 5/8/2018  
Date End: 5/9/2018  
Site Code: 21  
DECOTO RD S.O ALVARADO-NILES RD

Start Time	5/7/2018 Mon	5/8/2018 Tue	5/9/2018 Wed	5/10/2018 Thu	5/11/2018 Fri	Weekday Average	5/12/2018 Sat	5/13/2018 Sun
12:00 AM	*	256	302	*	*	279	*	*
01:00	*	145	133	*	*	139	*	*
02:00	*	77	112	*	*	94	*	*
03:00	*	125	150	*	*	138	*	*
04:00	*	387	367	*	*	377	*	*
05:00	*	1003	944	*	*	974	*	*
06:00	*	1827	1840	*	*	1834	*	*
07:00	*	<b>2654</b>	2695	*	*	2674	*	*
08:00	*	2646	<b>2710</b>	*	*	2678	*	*
09:00	*	1882	1840	*	*	1861	*	*
10:00	*	1587	1628	*	*	1608	*	*
11:00	*	1672	1630	*	*	1651	*	*
12:00 PM	*	1718	1674	*	*	1696	*	*
01:00	*	1776	1996	*	*	1886	*	*
02:00	*	2203	2312	*	*	2258	*	*
03:00	*	2630	2639	*	*	2634	*	*
04:00	*	2814	2938	*	*	2876	*	*
05:00	*	<b>3074</b>	<b>3071</b>	*	*	3072	*	*
06:00	*	2982	2967	*	*	2974	*	*
07:00	*	2458	2285	*	*	2372	*	*
08:00	*	1590	1749	*	*	1670	*	*
09:00	*	1233	1330	*	*	1282	*	*
10:00	*	989	864	*	*	926	*	*
11:00	*	576	508	*	*	542	*	*
Total	0	38304	38684	0	0		0	0
Percentage	0.0%	99.5%	100.5%	0.0%	0.0%		0.0%	0.0%
AM Peak	-	07:00	08:00	-	-	-	-	-
Vol.	-	2654	2710	-	-	-	-	-
PM Peak	-	17:00	17:00	-	-	-	-	-
Vol.	-	3074	3071	-	-	-	-	-
Total		38304	38684					

# ALL TRAFFIC DATA SERVICES

9660 W. 44TH AVE  
WHEAT RIDGE, CO 80033  
www.ALLTRAFFICDATA.NET

22  
Date Start: 5/8/2018  
Date End: 5/9/2018  
Site Code: 22

11TH ST W.O EAST-WEST CONNECTOR

Start Time	5/7/2018 Mon	5/8/2018 Tue	5/9/2018 Wed	5/10/2018 Thu	5/11/2018 Fri	Weekday Average	5/12/2018 Sat	5/13/2018 Sun
12:00 AM	*	14	15	*	*	14	*	*
01:00	*	11	13	*	*	12	*	*
02:00	*	10	4	*	*	7	*	*
03:00	*	26	18	*	*	22	*	*
04:00	*	77	76	*	*	76	*	*
05:00	*	109	128	*	*	118	*	*
06:00	*	437	414	*	*	426	*	*
07:00	*	<b>526</b>	<b>532</b>	*	*	529	*	*
08:00	*	282	252	*	*	267	*	*
09:00	*	186	172	*	*	179	*	*
10:00	*	159	201	*	*	180	*	*
11:00	*	157	191	*	*	174	*	*
12:00 PM	*	194	192	*	*	193	*	*
01:00	*	206	221	*	*	214	*	*
02:00	*	225	228	*	*	226	*	*
03:00	*	267	254	*	*	260	*	*
04:00	*	406	378	*	*	392	*	*
05:00	*	<b>486</b>	<b>462</b>	*	*	474	*	*
06:00	*	376	372	*	*	374	*	*
07:00	*	200	220	*	*	210	*	*
08:00	*	161	173	*	*	167	*	*
09:00	*	96	92	*	*	94	*	*
10:00	*	72	53	*	*	62	*	*
11:00	*	31	37	*	*	34	*	*
Total	0	4714	4698	0	0		0	0
Percentage	0.0%	100.2%	99.9%	0.0%	0.0%		0.0%	0.0%
AM Peak	-	07:00	07:00	-	-	-	-	-
Vol.	-	526	532	-	-	-	-	-
PM Peak	-	17:00	17:00	-	-	-	-	-
Vol.	-	486	462	-	-	-	-	-
Total		4714	4698					



# ALL TRAFFIC DATA SERVICES

9660 W. 44TH AVE  
WHEAT RIDGE, CO 80033  
www.ALLTRAFFICDATA.NET

23  
Date Start: 5/8/2018  
Date End: 5/9/2018  
Site Code: 23  
CENTRAL AVE S.O WHIPPLE RD

Start Time	5/7/2018 Mon	5/8/2018 Tue	5/9/2018 Wed	5/10/2018 Thu	5/11/2018 Fri	Weekday Average	5/12/2018 Sat	5/13/2018 Sun
12:00 AM	*	73	77	*	*	75	*	*
01:00	*	99	96	*	*	98	*	*
02:00	*	76	66	*	*	71	*	*
03:00	*	95	92	*	*	94	*	*
04:00	*	237	227	*	*	232	*	*
05:00	*	492	474	*	*	483	*	*
06:00	*	610	638	*	*	624	*	*
07:00	*	1069	1074	*	*	1072	*	*
08:00	*	<b>1108</b>	<b>1095</b>	*	*	1102	*	*
09:00	*	607	554	*	*	580	*	*
10:00	*	560	553	*	*	556	*	*
11:00	*	608	612	*	*	610	*	*
12:00 PM	*	739	796	*	*	768	*	*
01:00	*	770	919	*	*	844	*	*
02:00	*	909	<b>969</b>	*	*	939	*	*
03:00	*	<b>1063</b>	922	*	*	992	*	*
04:00	*	876	872	*	*	874	*	*
05:00	*	911	878	*	*	894	*	*
06:00	*	621	615	*	*	618	*	*
07:00	*	498	384	*	*	441	*	*
08:00	*	274	286	*	*	280	*	*
09:00	*	369	254	*	*	312	*	*
10:00	*	225	216	*	*	220	*	*
11:00	*	130	119	*	*	124	*	*
Total	0	13019	12788	0	0		0	0
Percentage	0.0%	100.9%	99.1%	0.0%	0.0%		0.0%	0.0%
AM Peak	-	08:00	08:00	-	-	-	-	-
Vol.	-	1108	1095	-	-	-	-	-
PM Peak	-	15:00	14:00	-	-	-	-	-
Vol.	-	1063	969	-	-	-	-	-
Total		13019	12788					

# Appendix E

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Tribal Consultation Correspondence



[Insert Date]

Muwekma Ohlone Indian Tribe of the SF Bay Area  
Monica Arellano, Vice Chairwoman  
20885 Redwood Road, Suite 2  
Castro Valley, CA 94546

RE: Assembly Bill 52 and Senate Bill 18 Consultation, Union City General Plan Update Project,  
Union City, Alameda County, California

Dear Vice-Chairwoman Arellano:

The City of Union City is preparing an Environmental Impact Report for the proposed Union City General Plan Update. The proposed project must comply with California Public Resources Code § 21080.3.1 (Assembly Bill [AB] 52 of 2014), which requires local governments to conduct meaningful consultation with California Native American tribes that have requested to be notified by lead agencies of proposed projects in the geographic area with which the tribe is traditionally and culturally affiliated.

The proposed project must also comply with California Public Resources Code § 65352.3 – 65352.4 (Senate Bill 18), which requires local governments to conduct meaningful consultation with California Native American tribes on the contact list maintained by the Native American Heritage Commission prior to the adoption or amendment of a city or county general plan for the purpose of protecting cultural places on lands affected by the proposal.

The City adopted its current General Plan in 2002 to provide a roadmap for future land use development in the community, and the City has changed accordingly over the last 16 years. Building on the current General Plan, the 2040 General Plan Update responds to the current needs, values, and preferences of the community. It identifies and prioritizes opportunities to maintain a strong and diverse economy; provide a high quality of life that promotes health and equity; minimize natural hazard risk to people and property; and promote modern, sustainable land use decisions that accomplish the City's goals. The 2040 General Plan Update emphasizes infill and reuse development within the City limits, encourages higher-density and mixed use projects where appropriate, and supports attractive, walkable design that compliments the existing natural and built environment. New development would occur primarily where existing roads, water, and sewer are in place and in a manner that minimizes the impact of development on existing infrastructure and services. Focus areas for growth in Union City include the Greater Station District, Union City Boulevard Corridor, and Horner-Veasby Area. The 2040 General Plan Update provides the policy framework to guide future development toward land uses that support walking, biking, and transit ridership, including a Vision Zero policy. The 2040 General Plan Update places a greater emphasis on active transportation infrastructure such as protected bike lanes and enhanced pedestrian crossings, improved transit facilities and services, and ADA accessibility. The proposed goals, policies and



implementation programs are contained in a Public Review Draft 2040 General Plan on the City's webpage at: <http://www.uc2040.com/>.

Your tribe's input is important to the City of Union City's planning process. We request that you advise us as early as possible if you wish to consult on the proposed project. Under AB 52, you have 30 days and under the provisions of SB 18, have 90 days from the date of receipt of this notice to advise the City if you are interested in further consultation. If you require any additional information or have any questions, please contact me at (510) 675-5316 or via e-mail at [CarmelaC@unioncity.org](mailto:CarmelaC@unioncity.org). Thank you for your assistance.

Sincerely,

[Insert Lead Agency POC Signature]

Carmela Campbell, AICP  
Planning Manager  
City of Union City



[Insert Date]

Coastanoan Rumsen Carmel Tribe  
Tony Cerda, Chairperson  
244 E. 1st Street  
Pomona, CA 91766

RE: Assembly Bill 52 and Senate Bill 18 Consultation, Union City General Plan Update Project,  
Union City, Alameda County, California

Dear Chairperson Cerda:

The City of Union City is preparing an Environmental Impact Report for the proposed Union City General Plan Update. The proposed project must comply with California Public Resources Code § 21080.3.1 (Assembly Bill [AB] 52 of 2014), which requires local governments to conduct meaningful consultation with California Native American tribes that have requested to be notified by lead agencies of proposed projects in the geographic area with which the tribe is traditionally and culturally affiliated.

The proposed project must also comply with California Public Resources Code § 65352.3 – 65352.4 (Senate Bill 18), which requires local governments to conduct meaningful consultation with California Native American tribes on the contact list maintained by the Native American Heritage Commission prior to the adoption or amendment of a city or county general plan for the purpose of protecting cultural places on lands affected by the proposal.

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Sincerely,

[Insert Lead Agency POC Signature]

Carmela Campbell, AICP  
Planning Manager  
City of Union City



[Insert Date]

Amah Mutsun Tribal Band of Mission San Juan Bautista  
Irenne Zwierlein, Chairperson  
789 Canada Road  
Woodside, CA 94062

RE: Assembly Bill 52 and Senate Bill 18 Consultation, Union City General Plan Update Project,  
Union City, Alameda County, California

Dear Chairperson Mutsun:

The City of Union City is preparing an Environmental Impact Report for the proposed Union City General Plan Update. The proposed project must comply with California Public Resources Code § 21080.3.1 (Assembly Bill [AB] 52 of 2014), which requires local governments to conduct meaningful consultation with California Native American tribes that have requested to be notified by lead agencies of proposed projects in the geographic area with which the tribe is traditionally and culturally affiliated.

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Sincerely,

[Insert Lead Agency POC Signature]

Carmela Campbell, AICP  
Planning Manager  
City of Union City





[Insert Date]

Muwekma Ohlone Indian Tribe of the SF Bay Area  
Charlene Niimeh, Chairperson  
20885 Redwood Road, Suite 2  
Castro Valley, CA 94546

RE: Assembly Bill 52 and Senate Bill 18 Consultation, Union City General Plan Update Project,  
Union City, Alameda County, California

Dear Chairperson Niimeh:

The City of Union City is preparing an Environmental Impact Report for the proposed Union City General Plan Update. The proposed project must comply with California Public Resources Code § 21080.3.1 (Assembly Bill [AB] 52 of 2014), which requires local governments to conduct meaningful consultation with California Native American tribes that have requested to be notified by lead agencies of proposed projects in the geographic area with which the tribe is traditionally and culturally affiliated.

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Your tribe's input is important to the City of Union City's planning process. We request that you advise us as early as possible if you wish to consult on the proposed project. Under AB 52, you have 30 days and under the provisions of SB 18, have 90 days from the date of receipt of this notice to advise the City if you are interested in further consultation. If you require any additional information or have any questions, please contact me at (510) 675-5316 or via e-mail at [CarmelaC@unioncity.org](mailto:CarmelaC@unioncity.org). Thank you for your assistance.

Sincerely,

[Insert Lead Agency POC Signature]

Carmela Campbell, AICP  
Planning Manager  
City of Union City



[Insert Date]

North Valley Yokuts Tribe  
Katherine Erolinda Perez. Chairperson  
P.O. Box 717  
Linden, CA 95236

RE: Assembly Bill 52 and Senate Bill 18 Consultation, Union City General Plan Update Project,  
Union City, Alameda County, California

Dear Chairperson Perez:

The City of Union City is preparing an Environmental Impact Report for the proposed Union City General Plan Update. The proposed project must comply with California Public Resources Code § 21080.3.1 (Assembly Bill [AB] 52 of 2014), which requires local governments to conduct meaningful consultation with California Native American tribes that have requested to be notified by lead agencies of proposed projects in the geographic area with which the tribe is traditionally and culturally affiliated.

The proposed project must also comply with California Public Resources Code § 65352.3 – 65352.4 (Senate Bill 18), which requires local governments to conduct meaningful consultation with California Native American tribes on the contact list maintained by the Native American Heritage Commission prior to the adoption or amendment of a city or county general plan for the purpose of protecting cultural places on lands affected by the proposal.

The City adopted its current General Plan in 2002 to provide a roadmap for future land use development in the community, and the City has changed accordingly over the last 16 years. Building on the current General Plan, the 2040 General Plan Update responds to the current needs, values, and preferences of the community. It identifies and prioritizes opportunities to maintain a strong and diverse economy; provide a high quality of life that promotes health and equity; minimize natural hazard risk to people and property; and promote modern, sustainable land use decisions that accomplish the City's goals. The 2040 General Plan Update emphasizes infill and reuse development within the City limits, encourages higher-density and mixed use projects where appropriate, and supports attractive, walkable design that compliments the existing natural and built environment. New development would occur primarily where existing roads, water, and sewer are in place and in a manner that minimizes the impact of development on existing infrastructure and services. Focus areas for growth in Union City include the Greater Station District, Union City Boulevard Corridor, and Horner-Veasby Area. The 2040 General Plan Update provides the policy framework to guide future development toward land uses that support walking, biking, and transit ridership, including a Vision Zero policy. The 2040 General Plan Update places a greater emphasis on active transportation infrastructure such as protected bike lanes and enhanced pedestrian crossings, improved transit facilities and services, and ADA accessibility. The proposed goals, policies and



implementation programs are contained in a Public Review Draft 2040 General Plan on the City's webpage at: <http://www.uc2040.com/>.

Your tribe's input is important to the City of Union City's planning process. We request that you advise us as early as possible if you wish to consult on the proposed project. Under AB 52, you have 30 days and under the provisions of SB 18, have 90 days from the date of receipt of this notice to advise the City if you are interested in further consultation. If you require any additional information or have any questions, please contact me at (510) 675-5316 or via e-mail at [CarmelaC@unioncity.org](mailto:CarmelaC@unioncity.org). Thank you for your assistance.

Sincerely,

[Insert Lead Agency POC Signature]

Carmela Campbell, AICP  
Planning Manager  
City of Union City



[Insert Date]

Indian Canyon Mutsun Band of Costanoan  
Ann Marie Sayers. Chairperson  
P.O. Box 28  
Hollister, CA 95024

RE: Assembly Bill 52 and Senate Bill 18 Consultation, Union City General Plan Update Project,  
Union City, Alameda County, California

Dear Chairperson Sayers:

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Carmela Campbell, AICP  
Planning Manager  
City of Union City