RECIRCULATED DRAFT EIR

FOR THE

TRACY COSTCO DEPOT ANNEX PROJECT (SCH # 2020080531)

DECEMBER 2023

Prepared for:

City of Tracy Planning Division 333 Civic Center Plaza Tracy, CA 95376

Prepared by:

De Novo Planning Group 1020 Suncast Lane, Suite 106 El Dorado Hills, CA 95762 (916) 580-9818

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1.1 Introduction

The City of Tracy prepared and publicly circulated a Draft Environmental Impact Report (EIR) for the proposed Tracy Costco Depot Annex Project (proposed Project) on September 16, 2022, inviting comment from the general public, agencies, organizations, and other interested parties. A Notice of Availability (NOA) was filed with the State Clearinghouse (SCH # 2020080531) and the County Clerk, and was published in a local newspaper pursuant to the public noticing requirements of the California Environmental Quality Act (CEQA). The Draft EIR was available for public review and comment from September 16, 2022 through October 31, 2022.

Pursuant to the CEQA Guidelines Section 15088.5 (a), a lead agency is required to recirculate an EIR when significant new information is added to the EIR after public notice is given of the availability of the EIR for public review under Section 15087 but before certification of the EIR. New information can include changes in the project or environmental setting as well as additional data or other information. New information added to an EIR is not "significant" unless the EIR is changed in a way that deprives the public of a meaningful opportunity to comment upon a substantial adverse environmental effect of the project or a feasible way to mitigate or avoid such an effect (including a feasible project alternative) that the project's proponents have declined to implement. As identified in Section 15088 (a) of the CEQA Guidelines, "significant new information" requiring recirculation is defined to include disclosures of any of the following:

- 1. A new significant environmental impact would result from the project or from a new mitigation measure proposed to be implemented.
- 2. A substantial increase in the severity of an environmental impact would result unless mitigation measures are adopted that reduce the impact to a level of insignificance.
- 3. A feasible project alternative or mitigation measure considerably different from others previously analyzed would clearly lessen the environmental impacts of the project, but the project's proponents decline to adopt it.
- 4. The Draft EIR was so fundamentally and basically inadequate and conclusory in nature that meaningful public review and comment were precluded.

1.2 SUMMARY OF THE REVISIONS TO THE DRAFT EIR

Upon review of certain comments received on the Draft EIR during the prior (2022) public comment period, the City concluded that the air quality and greenhouse gas quantitative analyses should be revised to employ more conservative assumptions concerning the distance that project trucks may travel. This Recirculated Draft EIR employs models of emissions that have been rerun assuming that the average trip length for all project truck trips is 29 miles. This reflects the average truck trip length within the county transportation model. The county model is actually a three-county model covering San Joaquin, Stanislaus and Merced Counties, all of which are within the San Joaquin Valley Air Pollution Control District boundaries. The Sierra Club, in its comments on the Draft EIR, had suggested that the Draft EIR assume average truck trip lengths of 25 miles, so the assumptions within this document are more conservative than that suggestion. Because the increased truck travel

distances lead to air quality impacts that are substantially more severe than indicated in the Draft EIR, the City has prepared this Recirculated Draft EIR.

In addition, the Project applicant responded to the comments on the Draft EIR by incorporating into the proposed Project numerous new and additional sustainability measures and strategies to reduce emissions and vehicle trips. The Project Description chapter and the other sections herein have been updated to reflect such Project commitments, as well as other Project refinements (such as construction schedule, etc.).

In accordance with CEQA Guidelines Section 15088.5 (c), if the revision is limited to a few chapters or portions of the EIR, the lead agency need only recirculate the chapters or portions that contain significant new information. This Recirculated Draft EIR includes the following chapters:

- Chapter 1.0: Introduction
- Chapter 2.0: Project Description
- Section 3.3: Air Quality
- Section 3.7: Greenhouse Gases, Climate Change and Energy
- Chapter 4.0: Other CEQA-Required Topics

These chapters will substitute for and supersede those contained in the previously-circulated Draft EIR. Those chapters and sections of the previously-circulated Draft EIR that are not listed above remain valid and are operative and effective parts of the overall EIR. Although the Project's air quality impacts are more severe than evaluated in the Draft EIR and the Project is expected to generate a higher quantity of greenhouse gas emissions, the significance determinations for all impacts have not changed compared to those in the Draft EIR. Therefore, the Executive Summary is unaltered; likewise, the Alternative analysis and comparison of impacts between alternatives is unaffected.

1.3 COMMENTING ON THE RECIRCULATED DRAFT EIR

This Recirculated Draft EIR will be circulated for public comment for a period of 45 days. Pursuant to CEQA Guidelines Section 15088.5(f), recirculating an EIR can result in the lead agency receiving more than one set of comments from reviewers. The lead agency may request that reviewers limit their comments to only the revised chapter or portions of the Recirculated EIR. Accordingly, in this case, reviewers should limit their comments to only the new information provided in the Recirculated Draft EIR (i.e., Chapter 1.0, Chapter 2.0, Section 3.3, Section 3.7, and Chapter 4.0). Following the close of the public comment period on this Recirculated Draft EIR, the City will prepare responses to (a) the comments received during the original Draft EIR public review period on all sections of the Draft EIR not contained within this Recirculated Draft EIR and (b) all comments received on this Recirculated Draft EIR concerning the sections in this recirculated document. By way of example, all comments on the Biological Resources section that were received during the earlier public comment period on the Draft EIR will be responded to, but comments received on the Air Quality section during the earlier public comment period on the Draft EIR will not be responded

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¹ See letter from Christine Lasley, Costco, to Victoria Lombardo, City of Tracy.

to. However, responses will be prepared for all comments received on the Air Quality section within this Recirculated Draft EIR.

Written public comments may be submitted to the City's Planning Division during the specified public review and comment period. Written comments should be delivered in person or by courier service, or be sent by mail or email to:

Attn: Victoria Lombardo, Senior Planner
City of Tracy, Planning Division
333 Civic Center Plaza
Tracy, CA 95376
(209) 831-6428
victoria.lombardo@cityoftracy.org

2.1 Project Location

The Project site is located at 16000 West Schulte Road in unincorporated San Joaquin County, California (Figures 2.0-1 and 2.0-2). The Project site is within the Tracy Sphere of Influence (SOI) 10-Year Planning Horizon and is immediately adjacent to the Tracy city limits to the north of the site.

The Project site is immediately south of the intersection of Bud Lyons Way and West Schulte Road. The Project site is bounded on the north by West Schulte Road, on the west by an unnamed driveway serving the adjacent rural residence, on the south by the Delta Mendota Canal, and on the east by vacant agricultural land. The Project site is located within Sections 35 of Township 2 South, Range 4 East Mount Diablo Base Meridian (MDBM). Figures 2.0-1 and 2.0-2 show the Project's regional location and vicinity.

2.2 Project Site Defined

The Project site includes two distinct planning boundaries defined below. The following terms are used throughout this Draft EIR to describe the planning boundaries within the Project site:

- **Project Site** (or **Annexation Area**) totals 104.46 acres and includes the whole of the Project, including the proposed 103.0-acre Development Area, and 1.46 acres of land along the Delta Mendota Canal (which would not be developed as part of the proposed Project).
- **Development Area** includes a 103.0-acre parcel (Assessor's Parcel Number [APN] 209-230-02) that is intended for the development of up to 1,736,724 square feet (sf) of industrial uses.

2.3 Project Setting

EXISTING SITE CONDITIONS

The APN for the Project site is 209-230-02. As noted above, the Project site totals approximately 104.46 acres of undeveloped land previously used for agricultural purposes. The site is regularly disked and mowed for weed abatement. Since the issuance of the Notice of Preparation, the County approved the temporary parking of Costco truck trailers on a portion of the Project site. In order to ensure a conservative analysis, this EIR uses the vacant/undeveloped, on-the-ground conditions that existed at the time the environmental review process commenced with the release of the Notice of Preparation. Figure 2.0-3 shows the aerial view of the Project site.

SITE TOPOGRAPHY

The Project site is relatively flat with natural gentle slope from southwest to northeast. The Project site topography ranges in elevation from approximately 148 to 187 feet above sea level¹.

¹ San Joaquin County GIS; ArcGIS Online USGS Topographic Map Service. Map date: November 1, 2019.

EXISTING SURROUNDING USES

Surrounding land uses include warehouse distribution and other industrial uses to the north (within the Cordes Ranch Specific Plan Area, located in the City of Tracy), vacant agricultural land within unincorporated San Joaquin County to the east, the Delta Mendota Canal and agricultural land within unincorporated San Joaquin County to the south, and a rural residence,² CalFire station, and Delta Mendota Canal to the west (within unincorporated San Joaquin County).

2.4 Project Goals and Objectives

Consistent with the California Environmental Quality Act (CEQA) Guidelines Section 15124(b), a clear statement of objectives and the underlying purpose of the proposed Project shall be discussed. The principal objective of the proposed Project is the approval and subsequent construction and operation of the Costco depot annex and Direct Delivery Center (DDC) warehouse facility.

The Tracy Costco Depot Annex Project is intended to achieve the following objectives:

- Construct and operate a new state-of-the-art Costco depot annex and DDC warehouse facility
 with two separate buildings containing ground-level shipping and receiving truck loading docks
 along the eastern and western sides that is of sufficient size to efficiently ship, receive, store and
 distribute regional merchandise and products.
- Annex the property into the City Limits and develop the site with light industrial uses that the City's General Plan already designates the site for.
- Locate an industrial Project in an area with nearby access to a regional roadway network.
- Create approximately 150 to 250 full time jobs along with approximately 400 construction jobs during Project buildout within the City of Tracy, thus improving the local jobs/housing balance.
- Ensure that the industrial area along West Schulte Road continues to be developed in a visually pleasing manner.
- Increase contributions to the City's tax base.
- Reduce energy consumption by incorporating onsite renewable energy generation and storage (solar PV panels and batteries) as well as sustainable design features and systems with enhanced energy efficiencies meeting State and Federal code requirements.
- Locate necessary Costco facilities on a site which can be purchased (rather than leased) in order to protect Costco's substantial investment of time, money and goodwill in the proposed location.
- Locate the facilities in close proximity to Costco's existing distribution operations (i.e., Costco Depot located at 25501 Gateway Blvd, Tracy, CA) and centrally located to service Costco's retail warehouse locations within northern California.
- Provide site ingress access for trucks at one gated access point to manage security of the site. Provide site egress for trucks at two access points to allow for efficient on-site circulation.

² The City is currently processing an application to annex this adjacent property at 16286 W. Schulte Road into the City and develop a proposed one-story, approximately 217,466 square foot industrial warehouse and associated truck trailer and employee parking lots thereon. As part of this application, if approved, the single-family residence would be demolished prior to redevelopment of the site.

- Improve services to Costco members, including by making appliances and big/bulky products more readily available.
- Complete the Project on schedule and within budget.

2.5 Project Characteristics and Description

PROJECT CHARACTERISTICS

The Project would include the construction and subsequent operation of two warehouse buildings that would serve as an annex to the existing Costco Depot located approximately 1.5-miles to the west of the Project and as a DDC. The two buildings (approximately 543,526 sf for Building 1 and 1,193,198 sf for Building 2) total approximately 1,736,724 sf on the Project site. The smaller Building 1 is anticipated to serve as the annex by providing additional storage for high-turnover merchandise processed through the nearby Costco Depot, a pallet repair facility, and a return to vendor facility for large items returned to a Costco warehouse. The larger Building 2 is anticipated to serve as a DDC, an ecommerce distribution center primarily for large and bulky items ordered online by Costco members for direct delivery through Market Delivery Operations (MDO) located in various smaller cities in the Northern California region. DDC warehouses distribute ordered goods to the MDOs for delivery (by appointment) to the members. Cold storage would not be provided as part of the proposed Project.³ The Project also would include the required circulation, parking, and utility improvements.

The site plan is shown in Figure 2.0-4.

Tracy Costco Depot Annex Traffic and Employment

Costco anticipates that approximately 100 trucks and 300 trailers typically would be parked on site, with the typical truck size being approximately 70 feet long for double-axle trailers. Trucks would enter the site from West Schulte Road at the eastern driveway. The proposed eastern driveway would provide two inbound lanes at West Schulte Road that widen to three lanes within the site, each of approximately 2,300 feet, providing on-site storage capacity for up to 90 trucks awaiting processing at the security gate.

It is anticipated that the Project facilities will employ approximately 150 to 250 full-time employees during operation that would work from between 4 a.m. to 11 p.m. daily. The Project is anticipated to generate approximately 400 jobs during the construction phase.

Warehouse Architecture

The proposed warehouse design would be contemporary in style and would use a variety of massing and materials appropriate for the scale of the buildings. Architectural metal with varied textures and horizontal and vertical orientations would be used, while varying parapet cap heights would break up the long elevations both horizontally and vertically. The parapets will also assist in concealing rooftop-mounted mechanical equipment. The proposed architecture places and focuses the design's detailed

³ That is, there would be no refrigerated warehouse operations or transport refrigeration units (TRUs) as part of the Project. If the Project is approved, the City would include a condition of approval precluding cold uses for the Project.

elements, varied building materials and color changes towards the front of the buildings along West Schulte Road.

Project Sustainability Features

The Project applicant has committed to a variety of construction- and operation-related Project features with the goal to reduce Project emissions, reduce energy consumption and/or promote sustainability. Below are some of the significant practices that Costco would incorporate into its new buildings and overall operations that help reduce emissions and conserve energy and other natural resources:

CONSTRUCTION

- Construction equipment would use Tier IV-compliant engines or better for off-road construction equipment greater than 50 horsepower.
- Through the use of construction worker training and/or signage, Costco would limit heavy duty construction equipment idling to no more than 2 minutes, and in no instance shall such idling exceed 5 minutes.
- Through the use of signage, vehicle speeds on unpaved roads would be limited to < 15 mph.
- Electric hookups would be provided to reduce the need for diesel generators for electric
 construction equipment and, should diesel generators be needed, all such diesel generators
 would be equipped with emission control technology verified by EPA and/or CARB to reduce PM
 emissions by a minimum of 85%.
- During construction, heavy duty diesel hauling trucks would be model year 2010 or better.
- Costco would provide on-site meal options for construction workers.

SITE

- A substantial amount of the proposed plant material for new facilities would be native and drought tolerant and would use less water than other common species. Site perimeter and parking lot landscaping would provide vegetated buffers that would include trees, tree canopies and other vegetation.
- Irrigation systems for new facilities include the use of deep root watering bubblers for parking lot trees to minimize water usage and ensure that water goes directly to the intended planting areas.
- Storm water management plans are designed to maintain quality control and storm water discharge rates based on the City's requirements.
- Parking lot lights are designed at 38' in height to provide even light distribution and utilize less
 energy compared to a greater number of fixtures at lower heights. LED lamps are used to
 provide a higher level of perceived brightness with less energy than other lamps such as highpressure sodium.
- Dust, tire wear, brake dust and other parking lot contaminants would be minimized through regular sweeping/cleaning of parking lots.

- The project would provide no more parking spaces than the minimum required by the City (or less if authorized by the City and feasible for project operations) to encourage car-pooling, highoccupancy vehicle use and use of non-auto transit.
- Costco would install Electric Vehicle (EV) capable (i.e., pre-wired) parking spaces as well as parking stalls with active EV charging stations per the California Building Code.

BUILDING

- New and renewable building materials are typically extracted and manufactured within the region. Materials such as concrete and concrete masonry units would be purchased local to the Project, minimizing the transport distances and resultant effects to road networks and regional air quality.
- Main building structures are comprised of pre-engineered systems that use 80% recycled steel.
 These pre-manufactured building components include structural framing and architectural metal wall and roof panels. These materials are shop finished, maximizing spans, and minimizing structure and waste during the construction process, reducing the overall construction duration.
- Solar PV panels would be installed on the roof of the buildings and/or elsewhere on site (e.g., awnings or canopies in parking areas) to generate approximately 3 MW of renewable electricity for use on site. Batteries would also be installed to store some of that electricity for on-site energy needs.
- To the extent they do not conflict with the proposed rooftop solar PV panels, all building roofs would maintain a reflectance rating of .68, emittance of .25 and Solar Reflectance Index of 63, lessening heat gain. Reflective cool roof materials are used to lower heat absorption, subsequently lowering energy requirements during the hot summer months. This roofing material meets the requirements for the EPA's Energy Star energy efficiency program. Building management systems monitor performance and energy usage of HVAC systems.
- HVAC comfort systems are controlled by a computerized building management system to maximize efficiency. Costco's HVAC units are high efficiency direct ducted units. Costco completely phased out the use of HCFCs in its HVAC units, long before the Montreal Protocol timeline.
- Mechanical systems are site specifically commissioned and designed and field tested to ensure
 that the HVAC systems are performing to the high efficiency standards. HVAC systems would be
 all-electric and would use High Efficiency MERV filters.
- Electric charging infrastructure would be installed on the property to facilitate the conversion of the truck fleet to zero-emission electric trucks as they become available in the market and used for truck deliveries to and from the facility.
- Pre-manufactured insulated architectural metal walls meet or exceed current energy code requirements. Building heat absorption is further reduced by a decrease in the thermal mass of the metal wall when compared to a typical masonry block wall. Insulated architectural metal wall panels contain approximately 76 percent of recycled material.
- High-efficiency restroom fixtures are used, which conserves water by achieving a 40% decrease over U.S. standards.
- Energy efficient transformers (i.e., Square D Type EE transformers) are used.

- To the extent emergency back-up diesel generators are needed, only Tier IV diesel generator or natural gas-powered engines would be used.
- The site's building energy efficiency would exceed Title 24 Building Envelope Energy Efficiency Standards by at least 1%.
- All appliances to be installed would meet or exceed Title 24 requirements.
- All building coatings and paints would be low-VOC coatings.
- Variable speed motors would be used on make-up air units and booster pumps.
- Gas water heaters would be direct vent and 94% efficient or greater.
- Construction waste would be recycled whenever possible.
- Lighting systems are designed with employee controllability in mind. Lighting is controlled by timers, but over-ride switches are provided for employee use.

OPERATIONS

- Deliveries are made in full trucks whenever feasible.
- The facility would not be designed for or include refrigerated cold storage; thus, no TRUs would be used at the facility.
- Costco delivery trucks would be model year 2010 or newer and use ultra-low sulfur diesel fuel (ULSD) or biodiesel blend with sulfur content of 15 ppm or less so long as such fuel is commercially available.
- Costco trucks would be equipped with engine idle shut off timers and appropriate training
 would be provided and signage would be installed to ensure that all truck idling is limited to a
 maximum of two minutes.
- All exclusively onsite vehicles (i.e., forklifts, yard goats, pallet jacks, etc.) would be electric or zero-emission vehicles.
- Costco would train managers and employees on efficient scheduling and load management to minimize queuing and limit idling.
- Costco would include signage at docks, delivery areas, and truck routes to facilitate traffic and limit idling.
- This Project's additional warehouse space would provide the existing nearby Tracy Depot distribution facilities with increased capacity and storage of products and Costco would relocate key DDC depot operations from its existing Stockton location to this facility to maximize efficiency and minimize miles traveled for delivery.
- Costco has been an active user of recycled content in packaging for many years and continues to increase its use of recycled content.
- Costco would provide a separate employee parking area accessible by its own curb cut entry and
 would provide a clearly-delineated, separate pedestrian pathway for employees connecting
 project buildings to the employee parking area and such pathway would include a lit crosswalk
 with flashing indicator lights where the path crosses vehicle routes.
- Bicycle parking would be provided in the employee parking lot and at the front entry of each building.
- Costco would participate in and offer all employees the opportunity to make use of a ride share program.

- Costco would provide on-site meal options for employees (e.g., micro market vending machines
 that offer drink and food for sale to employees, or food trucks [as regulated by Section
 10.08.3193 Mobile Food Vendors of the City's Municipal Code]) to minimize off-site employee
 trips during shifts.
- Building organic waste (i.e., green waste, wood waste, food waste and fibers such as paper and cardboard) would be recycled to the maximum extent possible and in full compliance with Senate Bill 1383.

Landscape and Stormwater Plan

The landscape plan includes a mix of drought-tolerant shrubs and grasses, and a variety of shade trees appropriate for the climate in Tracy would be used throughout the parking lots and along the Project perimeter. The landscape design and plant palette would complement the existing street and building/development landscape character established by Prologis and the International Park of Commerce. The general pattern of landscape islands to be located throughout the employee parking lot would provide the required shading of the vehicle parking area. Four bioretention basins/planters are shown on the site plan located on the northeast and northwest portions of the site to provide for detention and water quality treatment of the storm water runoff generated by the Project. The treatment basin/planters would be landscaped with a variety of grasses and oak trees per the preliminary landscape plan.

In addition to the proposed landscaping on the 103-acre Development Area, the 1.46-acre area outside the Development Area but within the Project site may be improved for landscape and stormwater purposes. The 1.46-acre area, located adjacent to the Delta-Mendota Canal, would be improved with both large rocks and small rock mulch and would continue to be used as an overflow area for the Canal. Additionally, riprap and rock mulch will be incorporated for stormwater and drainage purposes; hardscape or utilities are not proposed for this area.

Project Construction

To ensure the most conservative analysis, this EIR assumes that Project construction will be completed in one phase with a portion of the Project site developed and made operational prior to the remaining portion. Construction is anticipated to be completed within two years after building permits are received and will include construction of the warehouse buildings, as well as all related on-site improvements including the associated parking areas and stormwater features along West Schulte Road.

A construction staging area will be provided on-site, and the entire Project site would be graded as part of the proposed Project construction. The project is designed to have balanced earthwork with no off-haul of excess or import of additional soil needed. The anticipated earthwork quantity will be approximately 424,280 cubic yards of both cut and fill for the construction of both phases, Buildings 1 and 2, and all of that soil will be maintained/utilized on the project site.

CIRCULATION, TRANSPORTATION, AND PARKING

The design of the site locates the office and ancillary/accessory administrative uses at the far northern portion of each of the two buildings, along West Schulte Road, with the warehousing and truck dock

2.0

doors located at the center and southern portion of the buildings. Entries to the office and administrative uses are located at the northern end of each building and adjacent to the employee parking areas. An ADA-compliant pedestrian pathway would extend from each building to the northern property boundary, where it would connect to West Schulte Road.

The employee parking lot located on the north side of the site and adjacent to West Schulte Road includes a 30-foot landscape buffer area. Landscape buffers would be provided on all sides of the Project site to provide screening of the buildings and dock doors with various shade trees and drought tolerant shrubs and other vegetation. The preliminary landscape plan is shown in Figure 2.0-5.

Vehicle ingress/egress to/from the Project site will occur from three points along West Schulte Road. The main entry and exit point for employee vehicles would be located at the center of the site, at the existing signalized Bud Lyons Way intersection. The Bud Lyons Way driveway would also serve as a secondary exit with security gates for warehouse trucks, and no truck entry would be permitted. The main Bud Lyon Way driveway access would provide a deceleration lane for eastbound traffic and would have full turning movements to enter and exit the site. The deceleration lane at the Bud Lyons intersection will allow for the safe entry of employee vehicles to the site and access the parking adjacent to and in front of each building.

The second access driveway located at the Project site's northeast boundary includes a new signalized intersection and a deceleration lane for trucks traveling eastbound on West Schulte Road. This driveway would be the entrance for all truck traffic. A shared accessway to the adjacent parcel to the east is also provided with a left turn pocket to provide access to the parcel. The deceleration lane at the eastern intersection will allow for the safe entry of warehouse trucks to access the loading docks and trailer parking surrounding the buildings. The new intersection provides the only truck ingress to the site and also provides a second exit for trucks. This truck entrance/exit provides two inbound lanes at West Schulte Road. Within the site, and past the access to the parcel to the east, the two lanes widen into three lanes, each of approximately 2,300-feet in length. A security building and security gates would be located at the southern end of the site to manage the arrival of trucks. The three inbound lanes together would provide queue storage for up to 90 trucks without queues extending past the access to the adjacent parcel or reaching West Schulte Road. This third access driveway provides one lane for trucks exiting the facility.

A total of 576 employee parking stalls will be provided on the north side of the buildings. Of these, 15 will be ADA-compliant stalls, with 4 of those being sized for vans. Electric vehicle-designated stalls in an amount required by the applicable building code will include all the electrical infrastructure necessary to support the future installation of charging stations, and the project will immediately activate such EV charging stations as required by the building code. The 576 parking stalls provide no more than the minimum amount of stalls required by the City for an industrial development of this square footage, consistent with the project's energy efficiency commitments noted above. The Project would provide standard parking stalls of 9-foot by 18.5-foot, consistent with the City of Tracy's standards. The site would also include 600 truck and trailer parking stalls around the east, south, and west sides of the buildings.

The employee parking lot and truck and trailer parking areas would be illuminated with standard downward pointing lights, each containing two LED fixtures affixed to a 38-foot foot light pole. The lighting fixtures would be of a "shoe-box" style. Parking lot light standards would be designed to provide even light distribution for vehicle and pedestrian safety as well as site and building security without causing light to spill onto adjacent properties. Lighting fixtures also would be located approximately every 40 feet around the exterior of the warehouse buildings to provide additional lighting for safety and security.

It is noted that the 1.46 acres of land along the Delta Mendota Canal (which would not be developed as part of the proposed Project) would be maintained for drainage and as an access point for Canal-related maintenance.

UTILITIES

The proposed Project would connect to existing City infrastructure to provide water, sewer, and storm drainage utilities. Existing storm drain, sewer, water, and gas lines/pipes are currently located along West Schulte Road.

The Project would be served by the following existing service providers:

- 1. City of Tracy for water;
- 2. City of Tracy for wastewater collection and treatment;
- 3. City of Tracy for stormwater collection;
- 4. Pacific Gas and Electric Company for gas and electricity.

Utility extensions would be installed to provide services to the Project. Utility lines within the Project site and adjacent roadways would be extended throughout the Project site. Wastewater, water, and storm drainage lines would be connected via existing lines along West Schulte Road. Eight-inch sanitary sewer lines are currently located along West Schulte Road. Additionally, 2-inch water lines are currently located along West Schulte Road. Further, storm drainage lines ranging in size from 12 to 24 inches and a six-inch gas line are currently located along West Schulte Road. The Project intends to supply 100 percent of its electricity demand from renewable sources associated with a combination of onsite generation and direct source renewable purchased energy. Costco has entered into direct source renewable purchase contracts sufficient to supply these needs.

Stormwater treatment/detention basins and stormwater bioretention treatment planters would be located throughout the Project site, mainly in the proposed landscaped areas and along West Schulte Road. The Project site includes seven drainage areas: Area 1 (38.1 acres located along the eastern boundary of the site) Area 2 (36.7 acres located in the center of the site), Area 3 (11.2 acres located along the western boundary of the site), Area 4 (2.8 acres located along the northwestern boundary of the site) Area 5 (1.9 acres located in the eastern portion of the site), Area 6 (0.2 acres located along the northern boundary of the site), and Area 7 (3.6 acres located along the northeastern boundary of the site). Stormwater runoff from each of the seven drainage areas would be routed to a series of on-site stormwater bioretention treatment planters and treatment/detention basins. Figure 2.0-6 shows the stormwater quality control plan and each drainage management area.

Best management practices (BMPs) will be applied to the proposed development to limit the concentrations of constituents in any site runoff to acceptable levels. Stormwater flows from the Project site would be directed to the proposed stormwater treatment basins, treatment planters, and bioretention areas by a new stormwater conveyance system on the Project site. Stormwater runoff would not be allowed to discharge directly to the existing storm drains in West Schulte Road without first discharging to the bioretention areas. The landscaping plan includes stormwater treatment plantings in the treatment/detention basins. Additionally, erosion and sediment control measures would be implemented during construction.

GENERAL PLAN LAND USE AND ZONING

The City and County General Plan land use designations for the Project site and surrounding area are shown on Figure 2.0-7. The zoning is shown on Figure 2.0-8.

General Plan

The Project site is designated as Agriculture by the County's General Plan Land Use Map and is zoned as AG-40 Agriculture by the County. The site is within the City's Sphere of Influence 10-Year Planning Horizon and currently has a City General Plan land use designation of Industrial (I).

Figure 2.0-7 illustrates Tracy General Plan land use within the Project site.

Pre-zoning

The Project site is currently within the jurisdiction of San Joaquin County. Current county zoning for the Project site is AG-40.

The San Joaquin County Local Agency Formation Commission (LAFCO) will require the Project site to be pre-zoned by the City of Tracy in conjunction with the proposed annexation. The City's pre-zoning will include the Light Industrial (M-1) zoning designation for the Project site. The pre-zoning would go into effect upon annexation into the City of Tracy. The proposed pre-zoning for the Project site is shown on Figure 2.0-8.

ANNEXATION

The Project site is currently within San Joaquin County, and within the City of Tracy's SOI 10-Year Planning Horizon. The proposed Project would result in the annexation of the Annexation Area into the City of Tracy. The EIR analyzes the potential annexation of the parcels into the City of Tracy. Annexation of the Project site is consistent with the growth plans for the City of Tracy. The annexation area would include the entire 104.46-acre Project site.

2.6 Uses of the EIR and Required Agency Approvals

This EIR may be used for the following direct and indirect approvals and permits associated with adoption and implementation of the proposed Project.

CITY OF TRACY

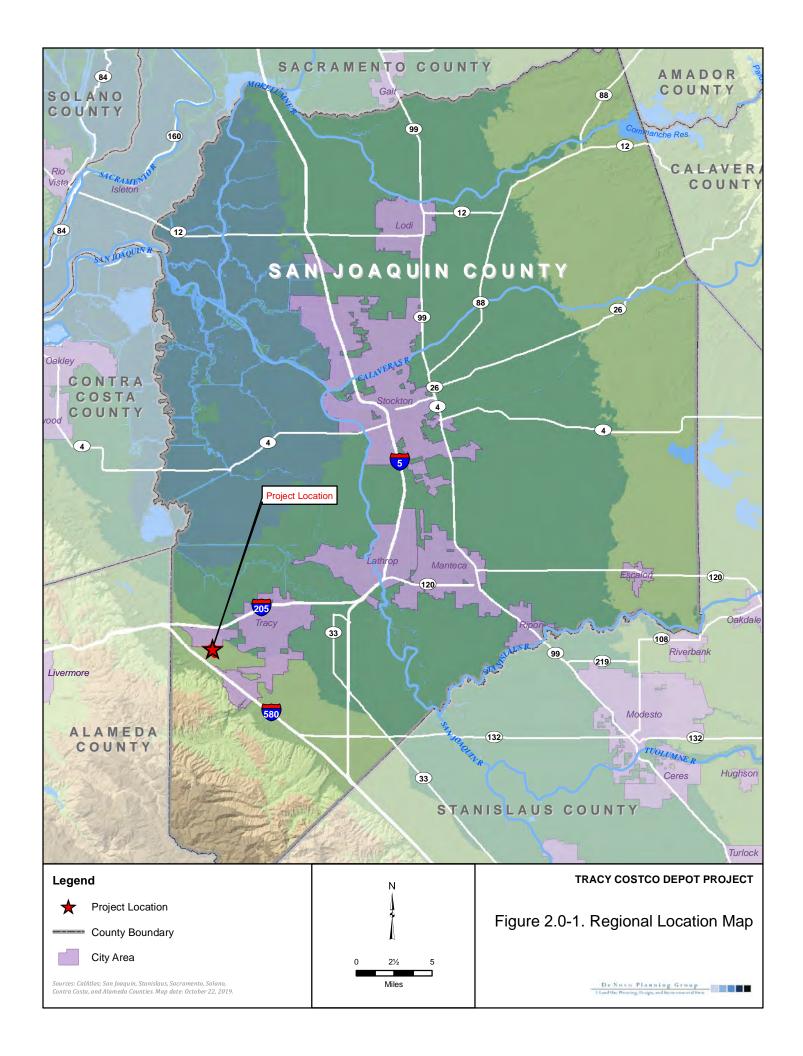
The City of Tracy is the Lead Agency for the proposed Project, pursuant to the State Guidelines for Implementation of CEQA, Section 15050. If the City Council certifies the EIR in accordance with CEQA requirements, the City may use the EIR to support the following actions:

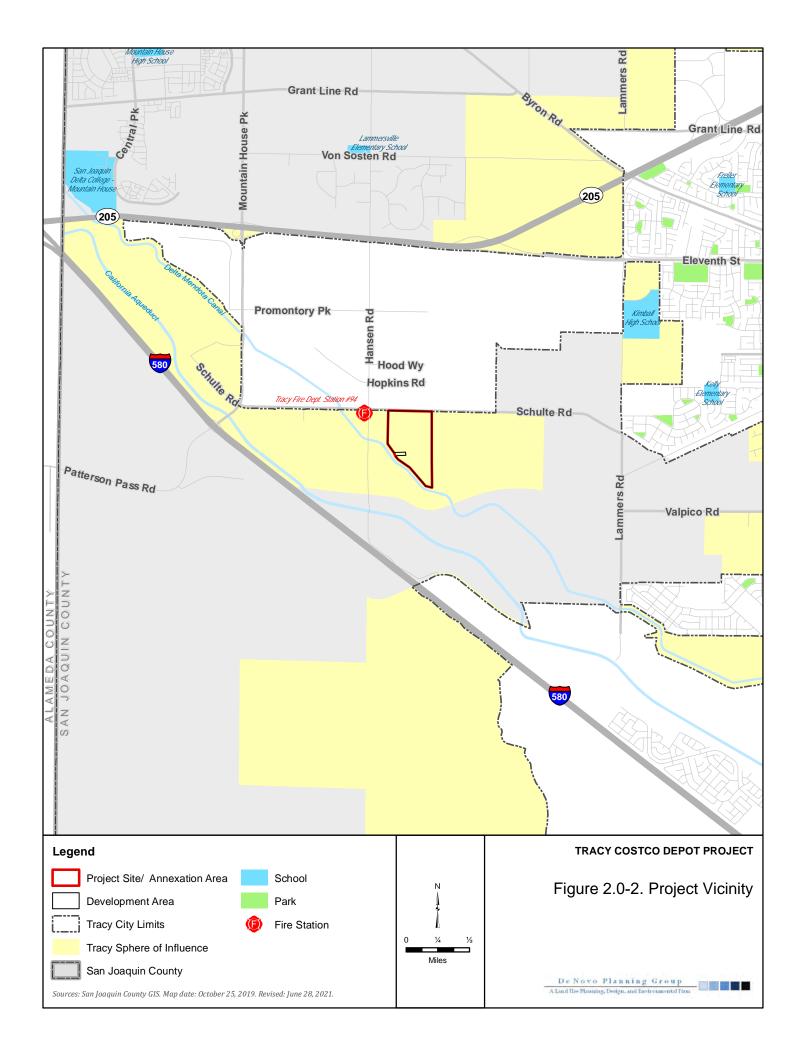
- Pre-zone of the property to the City's M-1 zoning district;
- Annexation of the Project site into the City (which requires approval by the San Joaquin County LAFCO);
- Development review permit for building design, landscaping, and other site features;
- Building, grading, and other permits as necessary for Project construction;
- Adopting a Mitigation Monitoring and Reporting Program (MMRP).

OTHER GOVERNMENTAL AGENCY APPROVALS

The following agencies may rely on the certified EIR to issue permits or approve certain aspects of the proposed Project:

- Regional Water Quality Control Board (RWQCB) Construction activities would be required to be covered under the National Pollution Discharge Elimination System (NPDES) and the Storm Water Pollution Prevention Plan (SWPPP) would be required to be approved prior to construction activities pursuant to the Clean Water Act;
- San Joaquin LAFCO Annexation of the Project site would be required.
- San Joaquin Valley Air Pollution Control District (SJVAPCD) Construction activities would be subject to the SJVAPCD codes and requirements.





2.0 PROJECT DESCRIPTION This page intentionally left blank.



Project Site/ Annexation Area

Development Area

Tracy City Limits

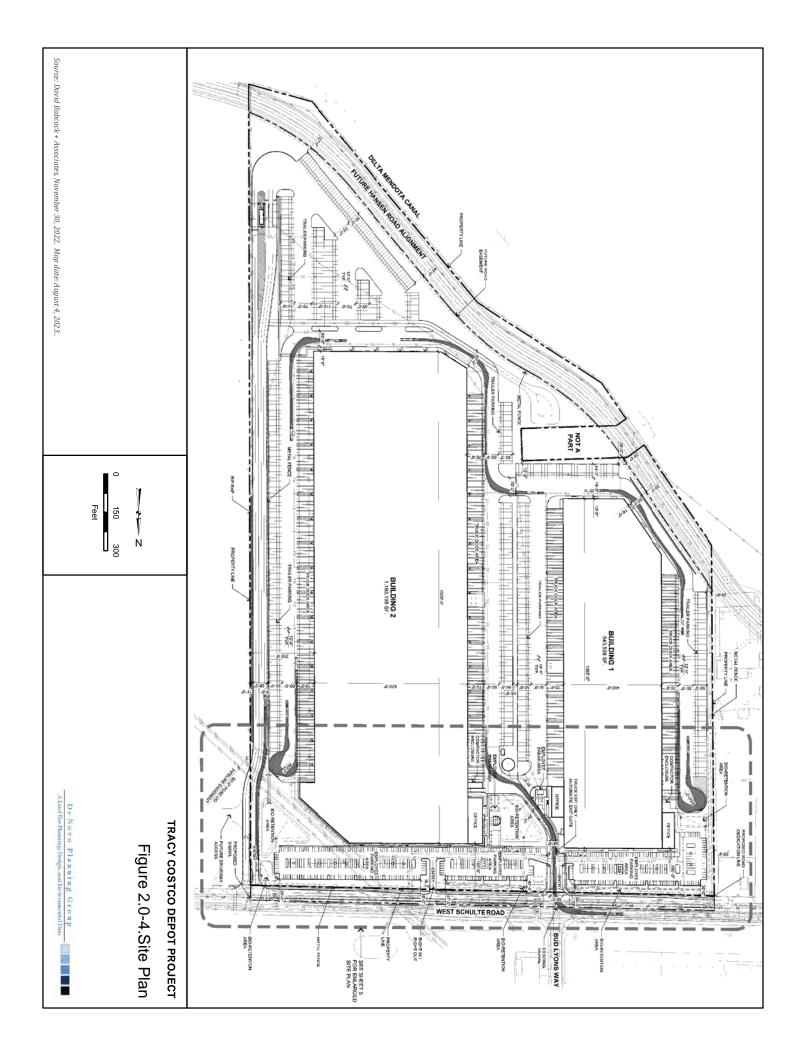
Sources: San Joaquin County GIS; ArcGIS Online World Imagery Map Service. Map date: October 25, 2019. Revised: June 28, 2021.



Figure 2.0-3. Aerial View of Project Site

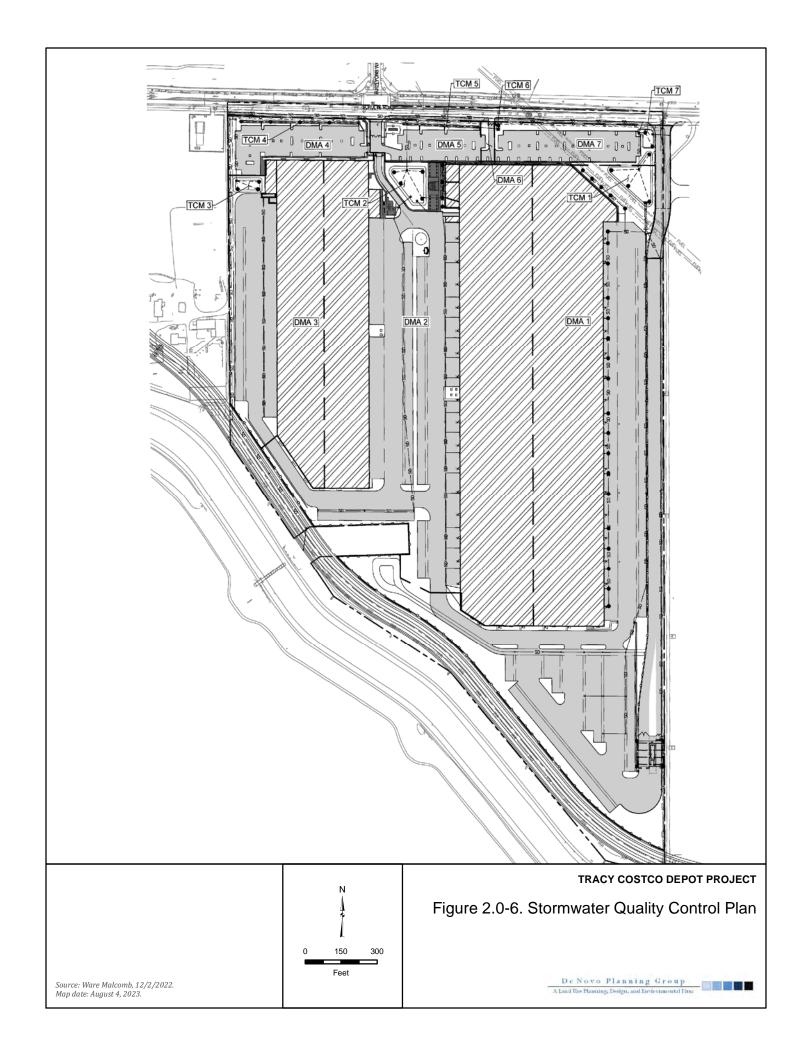
De Novo Planning Group

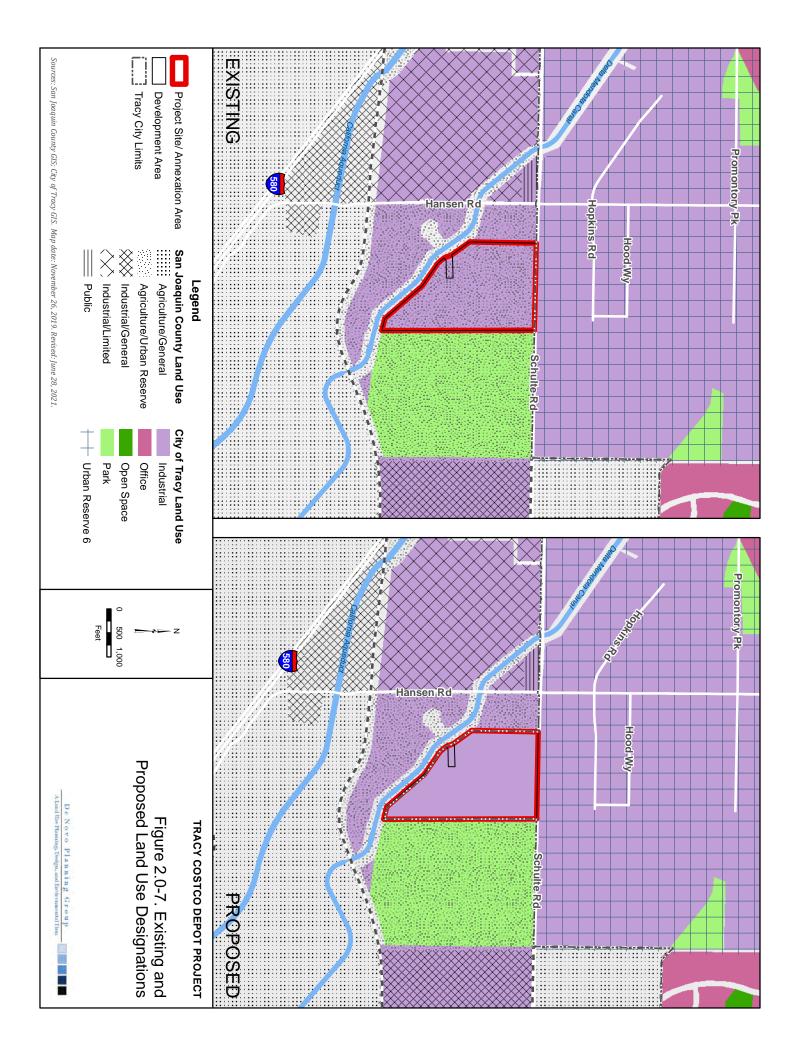
A Land Use Planning, Design, and Environmental Firm



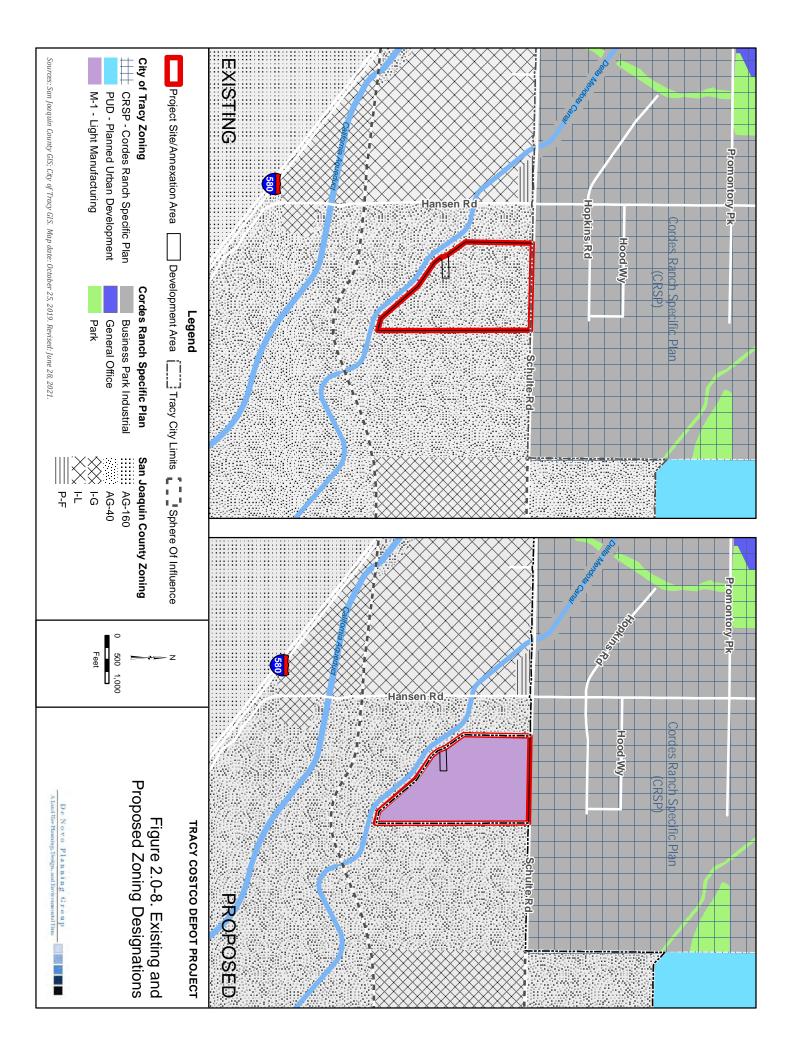
2.0 PROJECT DESCRIPTION







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This section describes the regional air quality, current attainment status of the air basin, local sensitive receptors, emission sources, and impacts that are likely to result from Project implementation. The analysis contained in this section is intended to be at a project level, and covers impacts associated with the conversion of the entire site to urban uses. Following this discussion is an assessment of consistency of the proposed Project with applicable policies and local plans. The Greenhouse Gases, Climate Change, and Energy analysis is located in a separate section of this document (see Chapter 3.7 – Greenhouse Gases, Climate Change and Energy). This air quality section is based in part on the following guidance documents: Air Quality and Land Use Handbook: A Community Health Perspective (California Air Resources Board [CARB], 2007), Guide for Assessing and Mitigation Air Quality Impacts (San Joaquin Valley Air Pollution Control District [SJAVPCD], 2002), Guidance for Assessing and Mitigating Air Quality Impacts - 2015 (SJAVPCD, 2015), and CalEEMod (v.2022.1).

One comment was received from SJVAPCD during the public review period or scoping meeting for the Notice of Preparation (October 29, 2021). The commenter pointed out that the SJVAPCD prepared the *Guide for Assessing and Mitigating Air Quality Impacts (GAMAQI)* (March 19, 2015) as a technical guidance for the review of air quality impacts from proposed projects within the boundaries of the District. This comment is addressed within this section. The full comment is included in Appendix A of the originally circulated Draft EIR.

3.3.1 Environmental Setting

San Joaquin Valley Air Basin

The City of Tracy (City) is in the northern portion of the San Joaquin Valley Air Basin (SJVAB). The SJVAB consists of eight counties: Fresno, Kern (western and central), Kings, Tulare, Madera, Merced, San Joaquin, and Stanislaus. Air pollution from significant activities in the SJVAB includes a variety of industrial-based sources as well as on- and off-road mobile sources. These sources, coupled with geographical and meteorological conditions unique to the area, stimulate the formation of unhealthy air.

The SJVAB is approximately 250 miles long and an average of 35 miles wide. It is bordered by the Sierra Nevada in the east, the Coast Ranges in the west, and the Tehachapi mountains in the south. There is a slight downward elevation gradient from Bakersfield in the southeast end (408 feet elevation) to sea level at the northwest end where the valley opens to the San Francisco Bay at the Carquinez Straits. At its northern end is the Sacramento Valley, which comprises the northern half of California's Central Valley. The bowl-shaped topography inhibits movement of pollutants out of the valley (SJVAPCD, 2015).

Climate

The SJVAB is in a Mediterranean climate zone and is influenced by a subtropical high-pressure cell most of the year. Mediterranean climates are characterized by sparse rainfall, which occurs mainly in winter. Summers are hot and dry. Summertime maximum temperatures often exceed 100°F in the valley.

3.3 AIR QUALITY

The subtropical high-pressure cell is strongest during spring, summer, and fall and produces subsiding air, which can result in temperature inversions in the valley. A temperature inversion can act like a lid, inhibiting vertical mixing of the air mass at the surface. Any emissions of pollutants can be trapped below the inversion. Most of the surrounding mountains are above the normal height of summer inversions (1,500 to 3,000 feet).

Winter-time high pressure events can often last many weeks, with surface temperatures often lowering into the 30°F. During these events, fog can be present and inversions are extremely strong. These wintertime inversions can inhibit vertical mixing of pollutants to a few hundred feet (SJVAPCD, 2015).

Wind Patterns

Wind speed and direction play an important role in dispersion and transport of air pollutants. Wind at the surface and aloft can disperse pollution by mixing and transporting it to other locations.

Especially in summer, winds in the San Joaquin Valley most frequently blow from the northwest. The region's topographic features restrict air movement and channel the air mass towards the southeastern end of the valley. Marine air can flow into the basin from the San Joaquin River Delta and over Altamont Pass and Pacheco Pass, where it can flow along the axis of the valley, over the Tehachapi pass, into the Southeast Desert Air Basin. This wind pattern contributes to transporting pollutants from the Sacramento Valley and the Bay Area into the SJVAB. Approximately 27 percent of the total emissions in the northern portion, 11 percent of total emissions in the central region, and 7 percent of total emission in the south valley of the SJVAB are attributed to air pollution transported from these two areas. The Coastal Range is a barrier to air movement to the west and the high Sierra Nevada range is a significant barrier to the east (the highest peaks in the southern Sierra Nevada reach almost halfway through the Earth's atmosphere). Many days in the winter are marked by stagnation events where winds are very weak. Transport of pollutants during winter can be very limited. A secondary but significant summer wind pattern is from the southeast and can be associated with nighttime drainage winds, prefrontal conditions, and summer monsoons.

Two significant diurnal wind cycles that occur frequently in the valley are the sea breeze and mountain-valley upslope and drainage flows. The sea breeze can accentuate the northwest wind flow, especially on summer afternoons. Nighttime drainage flows can accentuate the southeast movement of air down the valley. In the mountains during periods of weak synoptic scale winds, winds tend to be upslope during the day and downslope at night. Nighttime and drainage flows are especially pronounced during the winter when flow from the easterly direction is enhanced by nighttime cooling in the Sierra Nevada. Eddies can form in the valley wind flow and can recirculate a polluted air mass for an extended period.

http://www.valleyair.org/general_info/frequently_asked_questions.htm#What%20is%20being%20done%20 to%20improve%20ai r%20quality%20in%20the%20San%20Joaquin%20Valley, accessed September 11, 2023.

¹ SJVAPCD. Frequently Asked Questions,

Temperature

Solar radiation and temperature are particularly important in the chemistry of ozone formation. The SJVAB averages over 260 sunny days per year. Photochemical air pollution (primarily ozone) is produced by the atmospheric reaction of organic substances (such as volatile organic compounds) and nitrogen dioxide under the influence of sunlight. Ozone concentrations are very dependent on the amount of solar radiation, especially during late spring, summer, and early fall. Ozone levels typically peak in the afternoon. After the sun goes down, the chemical reaction between nitrous oxide and ozone begins to dominate. This reaction tends to scavenge and remove the ozone in the metropolitan areas through the early morning hours, resulting in the lowest ozone levels, possibly reaching zero at sunrise in areas with high nitrogen oxides emissions. At sunrise, nitrogen oxides tend to peak, partly due to low levels of ozone at this time and also due to the morning commuter vehicle emissions of nitrogen oxides.

Generally, the higher the temperature, the more ozone is formed, since reaction rates increase with temperature. However, extremely hot temperatures can "lift" or "break" the inversion layer. Typically, if the inversion layer does not lift to allow the buildup of contaminants to be dispersed, the ozone levels will peak in the late afternoon. If the inversion layer breaks and the resultant afternoon winds occur, the ozone will peak in the early afternoon and decrease in the late afternoon as the contaminants are dispersed or transported out of the SJVAB.

Ozone levels are low during winter periods when there is much less sunlight to drive the photochemical reaction (SJVAPCD, 2015).

Precipitation, Humidity, and Fog

Precipitation and fog may reduce or limit some pollutant concentrations. Ozone needs sunlight for its formation, and clouds and fog can block the required solar radiation. Wet fogs can cleanse the air during winter as moisture collects on particles and deposits them on the ground. Atmospheric moisture can also increase pollution levels. In fogs with less water content, the moisture acts to form secondary ammonium nitrate particulate matter. The winds and unstable air conditions experienced during the passage of winter storms result in periods of low pollutant concentrations and excellent visibility. Between winter storms, high pressure and light winds allow cold moist air to pool on the SJVAB floor. This creates strong low-level temperature inversions and very stable air conditions, which can lead to tule fog. Wintertime conditions favorable to fog formation are also conditions favorable to high concentrations of particulate matter (PM), including PM that have a diameter of less than 2.5 micrometers (PM_{2.5}) and 10 micrometers PM₁₀ (SJVAPCD, 2015).

Inversions

The vertical dispersion of air pollutants in the San Joaquin Valley can be limited by persistent temperature inversions. Air temperature in the lowest layer of the atmosphere typically decreases with altitude. A reversal of this atmospheric state, where the air temperature increases with height, is termed an inversion. The height of the base of the inversion is known as the "mixing height." This is the level to which pollutants can mix vertically. Mixing of air is minimized above and below the

inversion base. The inversion base represents an abrupt density change where little air movement occurs.

Inversion layers are significant in determining pollutant concentrations. Concentration levels can be related to the amount of mixing space below the inversion. Temperature inversions that occur on the summer days are usually 2,000 to 2,500 feet above the valley floor. In winter months, overnight inversions occur 500 to 1,500 feet above the valley floor (SJVAPCD, 2015).

CRITERIA POLLUTANTS

All criteria pollutants can have human health and environmental effects at certain concentrations. The United States Environmental Protection Agency (U.S. EPA) uses six "criteria pollutants" as indicators of air quality and has established for each of them a maximum concentration above which adverse effects on human health may occur. These threshold concentrations are called National Ambient Air Quality Standards (NAAQS). In addition, California establishes ambient air quality standards, called California Ambient Air Quality Standards (CAAQS). California law does not require that the CAAQS be met by a specified date as is the case with NAAQS.

The ambient air quality standards for the six criteria pollutants (as shown in Table 3.3-1) are set to protect public health and the environment within an adequate margin of safety (as provided under Section 109 of the Federal Clean Air Act [FCAA]). Epidemiological, controlled human exposure, and toxicology studies evaluate potential health and environmental effects of criteria pollutants, and form the scientific basis for new and revised ambient air quality standards. Principal characteristics and possible health and environmental effects from exposure to the six primary criteria pollutants generated by the Project are discussed below.

Ozone (O_3) is a photochemical oxidant and the major component of smog. While O_3 in the upper atmosphere is beneficial to life by shielding the earth from harmful ultraviolet radiation from the sun, high concentrations of O₃ at ground level are a major health and environmental concern. O₃ is not emitted directly into the air but is formed through complex chemical reactions between precursor emissions of volatile organic compounds (VOCs) and oxides of nitrogen (NOx) in the presence of sunlight. These reactions are stimulated by sunlight and temperature so that peak O₃ levels occur typically during the warmer times of the year. Both VOCs and NO_x are emitted by transportation and industrial sources. VOCs are emitted from sources as diverse as autos, chemical manufacturing, dry cleaners, paint shops and other sources using solvents.

The reactivity of O₃ causes health problems because it damages lung tissue, reduces lung function and sensitizes the lungs to other irritants. Scientific evidence indicates that ambient levels of O₃ not only affect people with impaired respiratory systems, such as asthmatics, but affect healthy adults and children as well. Exposure to O₃ for several hours at relatively low concentrations has been found to significantly reduce lung function and induce respiratory inflammation in normal, healthy people during exercise. This decrease in lung function generally is accompanied by symptoms including chest pain, coughing, sneezing and pulmonary congestion.

Studies show associations between short-term ozone exposure and non-accidental mortality, including deaths from respiratory issues. Studies also suggest long-term exposure to ozone may increase the risk of respiratory-related deaths (U.S. EPA, 2019a). The concentration of ozone at which health effects are observed depends on an individual's sensitivity, level of exertion (i.e., breathing rate), and duration of exposure. Studies show large individual differences in the intensity of symptomatic responses, with one study finding no symptoms to the least responsive individual after a 2-hour exposure to 400 parts per billion of ozone and a 50 percent decrement in forced airway volume in the most responsive individual. Although the results vary, evidence suggests that sensitive populations (e.g., asthmatics) may be affected on days when the 8-hour maximum ozone concentration reaches 80 parts per billion (U.S. EPA, 2019b). The average background level of ozone in California and Nevada is approximately 48.3 parts per billion, which represents approximately 77 percent of the total ozone in the western region of the U.S. (NASA, 2015).

In addition to human health effect, ozone has been tied to crop damage, typically in the form of stunted growth, leaf discoloration, cell damage, and premature death. O_3 can also act as a corrosive and oxidant, resulting in property damage such as the degradation of rubber products and other materials.

Carbon monoxide (CO) is a colorless, odorless and poisonous gas produced by incomplete burning of carbon in fuels. Carbon monoxide is harmful because it binds to hemoglobin in the blood, reducing the ability of blood to carry oxygen. This interferes with oxygen delivery to the body's organs. The most common effects of CO exposure are fatigue, headaches, confusion, and dizziness due to inadequate oxygen delivery to the brain. For people with cardiovascular disease, short-term CO exposure can further reduce their body's already compromised ability to respond to the increased oxygen demands of exercise, exertion, or stress. Inadequate oxygen delivery to the heart muscle leads to chest pain and decreased exercise tolerance. Unborn babies whose mothers experience high levels of CO exposure during pregnancy are at risk of adverse developmental effects. Exposure to CO at high concentrations can also cause fatigue, headaches, confusion, dizziness, and chest pain. There are no ecological or environmental effects to ambient CO (CARB, 2019a).

Very high levels of CO are not likely to occur outdoors. However, when CO levels are elevated outdoors, they can be of particular concern for people with some types of heart disease. These people already have a reduced ability for getting oxygenated blood to their hearts in situations where the heart needs more oxygen than usual. They are especially vulnerable to the effects of CO when exercising or under increased stress. In these situations, short-term exposure to elevated CO may result in reduced oxygen to the heart accompanied by chest pain also known as angina (U.S. EPA, 2016). Such acute effects may occur under current ambient conditions for some sensitive individuals, while increases in ambient CO levels increases the risk of such incidences.

Nitrogen Dioxide (NO_2) is a brownish, highly reactive gas that is present in all urban atmospheres. The main effect of increased NO_2 is the increased likelihood of respiratory problems. Under ambient conditions, NO_2 can irritate the lungs, cause bronchitis and pneumonia, and lower resistance to respiratory infections. Nitrogen oxides are an important precursor both to ozone (O_3) and acid rain and may affect both terrestrial and aquatic ecosystems. Longer exposures to elevated concentrations of NO_2 may contribute to the development of asthma and potentially increase susceptibility to respiratory infections. People with asthma, as well as children and the elderly, are generally at greater risk for the health effects of NO_2 .

3.3 AIR QUALITY

Sulfur dioxide (SO₂) is one of the multiple gaseous oxidized sulfur species and is formed during the combustion of fuels containing sulfur, primarily coal and oil. The largest anthropogenic source of SO_2 emissions in the U.S. is fossil fuel combustion at electric utilities and other industrial facilities. SO_2 is also emitted from certain manufacturing processes and mobile sources, including locomotives, large ships, and construction equipment.

 SO_2 affects breathing and may aggravate existing respiratory and cardiovascular disease in high doses. Sensitive populations include asthmatics, individuals with bronchitis or emphysema, children and the elderly. SO_2 is also a primary contributor to acid deposition, or acid rain, which causes acidification of lakes and streams and can damage trees, crops, historic buildings and statues. In addition, sulfur compounds in the air contribute to visibility impairment in large parts of the country. This is especially noticeable in national parks. Ambient SO_2 results largely from stationary sources such as coal and oil combustion, steel mills, refineries, pulp and paper mills and from nonferrous smelters.

Short-term exposure to ambient SO_2 has been associated with various adverse health effects. Multiple human clinical studies, epidemiological studies, and toxicological studies support a causal relationship between short-term exposure to ambient SO_2 and respiratory morbidity. The observed health effects include decreased lung function, respiratory symptoms, and increased emergency department visits and hospitalizations for all respiratory causes. These studies further suggest that people with asthma are potentially susceptible or vulnerable to these health effects. In addition, SO_2 reacts with other air pollutants to form sulfate particles, which are constituents of fine particulate matter ($PM_{2.5}$). Inhalation exposure to $PM_{2.5}$ has been associated with various cardiovascular and respiratory health effects (U.S. EPA, 2017). Increased ambient SO_2 levels would lead to increased risk of such effects.

 SO_2 emissions that lead to high concentrations of SO_2 in the air generally also lead to the formation of other sulfur oxides (SOx). SOx can react with other compounds in the atmosphere to form small particles. These particles contribute to particulate matter (PM) pollution. Small particles may penetrate deeply into the lungs and in sufficient quantity can contribute to health problems.

Particulate matter (PM) includes dust, dirt, soot, smoke and liquid droplets directly emitted into the air by sources such as factories, power plants, cars, construction activity, fires and natural windblown dust. Particles formed in the atmosphere by condensation or the transformation of emitted gases such as SO_2 and VOCs are also considered particulate matter. PM is generally categorized based on the diameter of the particulate matter: PM_{10} is particulate matter 10 micrometers or less in diameter (known as respirable particulate matter), and $PM_{2.5}$ is particulate matter 2.5 micrometers or less in diameter (known as fine particulate matter).

Based on studies of human populations exposed to high concentrations of particles (sometimes in the presence of SO₂) and laboratory studies of animals and humans, there are major effects of concern for human health. These include effects on breathing and respiratory symptoms, aggravation of existing respiratory and cardiovascular disease, alterations in the body's defense systems against foreign materials, damage to lung tissue, carcinogenesis and premature death.

Small particulate pollution causes health impacts even at very low concentrations – indeed, no threshold has been identified below which no damage to health is observed.

Respirable particulate matter (PM_{10}) consists of small particles, less than 10 microns in diameter, of dust, smoke, or droplets of liquid which penetrate the human respiratory system and cause irritation by themselves, or in combination with other gases. PM_{10} is caused primarily by dust from grading and excavation activities, from agricultural activities (as created by soil preparation activities, fertilizer and pesticide spraying, weed burning and animal husbandry), and from motor vehicles, particularly diesel-powered vehicles. PM_{10} causes a greater health risk than larger particles, since these fine particles can more easily penetrate the defenses of the human respiratory system.

 $PM_{2.5}$ consists of fine particles that are less than 2.5 microns in size. Similar to PM_{10} , these particles are primarily the result of combustion in motor vehicles, particularly diesel engines, as well as from industrial sources and residential/agricultural activities such as burning. It is also formed through the reaction of other pollutants. As with PM_{10} , these particulates can increase the chance of respiratory disease, and cause lung damage and cancer. In 1997, the U.S. EPA created new Federal air quality standards for $PM_{2.5}$.

The major subgroups of the population that appear to be most sensitive to the effects of particulate matter include individuals with chronic obstructive pulmonary or cardiovascular disease or influenza, asthmatics, the elderly and children. PM₁₀ and PM_{2.5} also impacts soils and damages materials and is a major cause of visibility impairment.

Numerous studies have linked PM exposure to premature death in people with preexisting heart or lung disease, nonfatal heart attacks, irregular heartbeat, aggravated asthma, decreased lung function, and increased respiratory symptoms. Studies show that every 1 microgram per cubic meter reduction in PM_{2.5} results in a one percent reduction in mortality rate for individuals over 30 years old (Bay Area Air Quality Management District, 2017). Long-term exposures, such as those experienced by people living for many years in areas with high PM levels, have been associated with problems such as reduced lung function and the development of chronic bronchitis – and even premature death. Additionally, depending on its composition, both PM₁₀ and PM_{2.5} can also affect water quality and acidity, deplete soil nutrients, damage sensitive forests and crops, affect ecosystem diversity, and contribute to acid rain (U.S. EPA, 2019c).

Lead (Pb) exposure can occur through multiple pathways, including inhalation of air and ingestion of Pb in food, water, soil or dust. Once taken into the body, lead distributes throughout the body in the blood and is accumulated in the bones. Depending on the level of exposure, lead can adversely affect the nervous system, kidney function, immune system, reproductive and developmental systems and the cardiovascular system. Lead exposure also affects the oxygen carrying capacity of the blood. Excessive Pb exposure can cause seizures, mental retardation and/or behavioral disorders. Low doses of Pb can lead to central nervous system damage. Studies have also shown that Pb may be a factor in high blood pressure and subsequent heart disease (Tsoi, M.F., 2021).

Lead is persistent in the environment and can be added to soils and sediments through deposition from sources of lead air pollution. Other sources of lead to ecosystems include direct discharge of

3.3 AIR QUALITY

waste streams to water bodies and mining. Elevated lead in the environment can result in decreased growth and reproductive rates in plants and animals, and neurological effects in vertebrates.

Lead exposure is typically associated with industrial sources; major sources of lead in the air are ore and metals processing and piston-engine aircraft operating on leaded aviation fuel. Other sources are waste incinerators, utilities, and lead-acid battery manufacturers. The highest air concentrations of lead are usually found near lead smelters. As a result of the U.S. EPA's regulatory efforts, including the removal of lead from motor vehicle gasoline, levels of lead in the air decreased by 98 percent between 1980 and 2014 (U.S. EPA, 2019d). Based on this reduction of lead in the air over this period, and since most new developments do not generate an increase in lead exposure, the health impacts of ambient lead levels are not typically monitored by the California Air Resources Board (CARB).

Ambient Air Quality Standards

Both the U.S. EPA and the CARB have established ambient air quality standards for common pollutants. These ambient air quality standards represent safe levels of contaminants that avoid specific adverse health effects associated with each pollutant.

The federal and State ambient air quality standards are summarized in Table 3.3-1 for important pollutants. The federal and State ambient standards were developed independently, although both processes were aimed at avoiding health-related effects. As a result, the federal and State standards differ in some cases. In general, the California standards are more stringent. This is particularly true for ozone, $PM_{2.5}$, and PM_{10} . The U.S. EPA signed a final rule for the federal ozone eight-hour standard of 0.070 parts per million (ppm) on October 1, 2015, which was effective as of December 28, 2015 (equivalent to the California state ambient air quality eight-hour standard for ozone).

In 1997, new national standards for fine particulate matter diameter 2.5 microns or less (PM $_{2.5}$) were adopted for 24-hour and annual averaging periods. The existing PM $_{10}$ standards were retained, but the method and form for determining compliance with the standards were revised.

In addition to the criteria pollutants discussed above, Toxic Air Contaminants (TACs) are another group of pollutants of concern. TACs are injurious in small quantities and are regulated. The identification, regulation, and monitoring of TACs is relatively recent compared to that for criteria pollutants. Unlike criteria pollutants, TACs are regulated on the basis of risk rather than specification of safe levels of contamination.

TABLE 3.3-1: FEDERAL AND STATE AMBIENT AIR QUALITY STANDARDS

POLLUTANT	AVERAGING TIME	FEDERAL PRIMARY STANDARD	State Standard
Ozono	1-Hour		0.09 ppm
Ozone	8-Hour	0.070 ppm	0.070 ppm
Carbon Monoxide	8-Hour	9.0 ppm	9.0 ppm
Carbon Monoxide	1-Hour	35.0 ppm	20.0 ppm
Nitrogon Diovido	Annual	0.053 ppm	0.03 ppm
Nitrogen Dioxide	1-Hour	0.100 ppm	0.18 ppm
	Annual	0.03 ppm	
Sulfur Dioxide	24-Hour	0.14 ppm	0.04 ppm
	1-Hour	0.075 ppm	0.25 ppm
PM ₁₀	Annual		20 ug/m ³
PIVI10	24-Hour	150 ug/m³	50 ug/m³
PM _{2.5}	Annual	12 ug/m³	12 ug/m³
PIVI2.5	24-Hour	35 ug/m³	
Load	30-Day Avg.		1.5 ug/m ³
Lead	3-Month Avg.	0.15 ug/m ³	

NOTES: PPM = PARTS PER MILLION, UG/M3 = MICROGRAMS PER CUBIC METER

Source: California Air Resources Board, 2019a.

Existing air quality concerns within San Joaquin County and the entire air basin are related to increases of regional criteria air pollutants (e.g., ozone and particulate matter), exposure to toxic air contaminants, odors, and increases in greenhouse gas emissions contributing to climate change. The primary source of ozone (smog) pollution is motor vehicles, which account for 70 percent of the ozone in the region. Particulate matter is caused by dust, primarily dust generated from construction and grading activities, and smoke emitted from fireplaces, wood-burning stoves, and agricultural burning.

Attainment Status

In accordance with the California Clean Air Act (CCAA), the CARB is required to designate areas of the State as attainment, nonattainment, or unclassified with respect to applicable standards. An "attainment" designation for an area signifies that pollutant concentrations did not violate the applicable standard in that area. A "nonattainment" designation indicates that a pollutant concentration violated the applicable standard at least once, excluding those occasions when a violation was caused by an exceptional event, as defined in the criteria.

Depending on the frequency and severity of pollutants exceeding applicable standards, the nonattainment designation can be further classified as serious nonattainment, severe nonattainment, or extreme nonattainment, with extreme nonattainment being the most severe of the classifications. An "unclassified" designation signifies that the data do not support either an attainment or nonattainment status. The CCAA divides districts into moderate, serious, and severe air pollution categories, with increasingly stringent control requirements mandated for each category.

The U.S. EPA designates areas for ozone, carbon monoxide, and nitrogen dioxide as "does not meet the primary standards," "cannot be classified," or "better than national standards." For sulfur dioxide, areas are designated as "does not meet the primary standards," "does not meet the secondary standards," "cannot be classified," or "better than national standards." However, the CARB terminology of attainment, nonattainment, and unclassified is more frequently used.

San Joaquin County has a State designation Attainment or Unclassified for all criteria pollutants except for ozone, PM₁₀, and PM_{2.5}. San Joaquin County has a national designation of either Unclassified or Attainment for all criteria pollutants except for ozone and PM_{2.5}. Table 3.3-2 presents the state and national attainment status for San Joaquin County.

TABLE 3.3-2: STATE AND NATIONAL ATTAINMENT STATUS IN SAN JOAQUIN COUNTY

CRITERIA POLLUTANTS	STATE DESIGNATIONS	NATIONAL DESIGNATIONS
Ozone (O ₃)	Nonattainment	Nonattainment
PM ₁₀	Nonattainment	Attainment
PM _{2.5}	Nonattainment	Nonattainment
Carbon Monoxide (CO)	Attainment	Unclassified/Attainment
Nitrogen Dioxide (NO ₂)	Attainment	Unclassified/Attainment
Sulfur Dioxide (SO ₂)	Attainment	Unclassified/Attainment
Sulfates	Attainment	
Lead	Attainment	Unclassified/Attainment
Hydrogen Sulfide	Unclassified	
Visibility Reducing Particles	Unclassified	

Source: California Air Resources Board, 2023.

San Joaquin County Air Quality Monitoring

The SJVAPCD and the CARB maintain air quality monitoring sites throughout San Joaquin County that collect data for ozone and $PM_{2.5}$. In addition, air quality monitoring sites for PM_{10} are located throughout the San Joaquin Valley (though not in San Joaquin County). The closest air quality monitoring station to the Project site is the Tracy-Airport location. It is important to note that while the State retains the one-hour ozone standard, the federal ozone 1-hour standard was revoked by the U.S. EPA and is no longer applicable for federal standards. Best available data obtained from the monitoring sites between 2017 and 2020 (latest year of data available) is shown in Table 3.3-3, Table 3.3-4, and Table 3.3-5.

TABLE 3.3-3 AMBIENT AIR QUALITY MONITORING DATA SUMMARY (TRACY-AIRPORT)* - OZONE

	Days > Standard			1-Hour Observations		8-Hour Averages			YEAR				
YEAR	ST	ATE	NATI	ONAL		STATE	NAT'L	ST	ATE	NAT	TIONAL	Cove	RAGE
	1-HR	8-HR	1-HR	8-HR	MAX.	D.V. 1	D.V. ²	MAX.	D.V. 1	MAX.	D.V. ²	MIN	MAX
2022	0	1	0	1	0.082	0.08	0.084	0.074	0.075	0.074	0.066	95	97
2021	0	3	0	3	0.089	0.09	0.087	0.078	0.077	0.077	0.068	96	98
2020	0	3	0	3	0.086	0.09	0.092	0.078	0.082	0.078	0.070	95	96
2019	1	3	0	3	0.095	0.09	0.092	0.080	0.082	0.079	0.073	97	99
2018	1	8	0	8	0.099	0.10	0.099	0.082	0.085	0.081	0.076	98	99
2017	0	7	0	5	0.093	0.10	0.105	0.082	0.086	0.082	0.077	93	95

Notes: All concentrations expressed in Parts per million. The national 1-hour ozone standard was revoked in June 2005 and is no longer in effect. Statistics related to the revoked standard are shown in Italics. D.V. 1 = State Designation Value. D.V. 2 = National Design Value. *Tracy-Airport represents the closest monitoring station to the Project site.

SOURCE: CALIFORNIA AIR RESOURCES BOARD (AEROMETRIC DATA ANALYSIS AND MANAGEMENT SYSTEM OR IADAM) AIR POLLUTION SUMMARIES.

Table 3.3-4: Ambient Air Quality Monitoring Data Summary (San Joaquin Valley)* – PM₁₀

YEAR	EST. DAYS > STD.		Annual Average		Нідн 24-Н	YEAR	
I EAK	NAT'L	STATE	NAT'L	State	NAT'L	State	COVERAGE
2022	3.8	171.2	56.7	54.9	250.8	251.6	0 – 10
2021	16.3	151.7	54.9	52.8	437.5	439.3	0 - 97
2020	38.7	157.0	64.5	60.5	517.2	359.0	0 - 100
2019	16.2	129.7	55.6	55.6	652.2	664.2	0 – 100
2018	9.6	164.4	54.5	53.0	250.2	250.4	0 – 100
2017	7.7	145.5	55.3	48.4	298.4	210.0	0 – 100

Notes: The national annual average PM_{10} standard was revoked in December 2006 and is no longer in effect. An exceedance is not necessarily a violation. Statistics may include data that are related to an exceptional event. State and national statistics may differ for the following reasons: State statistics are based on California approved samplers, whereas national statistics are based on samplers using federal reference or equivalent methods. State and national statistics may therefore be based on different samplers. National statistics are based on standard conditions. State criteria for ensuring that data are sufficiently complete for calculating valid annual averages are more stringent than the national criteria. *This data represents the highest values identified within San Joaquin Valley as a whole. Data for the nearest monitoring site (Tracy-Airport), as well as for San Joaquin County, had insufficient data.

SOURCE: CALIFORNIA AIR RESOURCES BOARD (AEROMETRIC DATA ANALYSIS AND MANAGEMENT SYSTEM OR IADAM) AIR POLLUTION SUMMARIES.

TABLE 3.3-5 AMBIENT AIR QUALITY MONITORING DATA SUMMARY (SAN JOAQUIN COUNTY)* - PM_{2.5}

YEAR	EST. DAYS > NAT'L '06 STD.	Annual Average		_	State Annual		NAT'L '06 24-	High 24-Hour Average		Year Coverage	
IEAK		NAT'L	State	ANN. STD. D.V. ¹	D.V. ²	PERCENTILE	HR STD. D.V. ¹	NAT'L	State	MIN	MAX
2022	6.2	10.2	10.2	*	15	35.2	54	51.9	51.9	72	96
2021	11.3	11.7	*	*	15	39.9	52	58.7	58.7	14	100
2020	24.0	14.8	14.8	13.8	17	91.6	72	140.0	140.0	98	99
2019	6.4	9.3	6.2	13.0	17	32.9	56	50.1	50.1	77	95
2018	25.0	17.6	17.4	13.8	17	96.9	56	188.0	257.5	96	100
2017	16.9	12.1	11.0	12.2	13	44.2	39	53.7	53.7	94	99

Notes: All concentrations expressed in parts per million. State and national statistics may differ for the following reasons: State statistics are based on California approved samplers, whereas national statistics are based on samplers using federal reference or equivalent methods. State and national statistics may therefore be based on different samplers. State criteria for ensuring that data are sufficiently complete for calculating valid annual averages are more stringent than the national criteria. D.V. 1 = State Designation Value. D.V. 2 = National Design Value. *This data represents the highest values identified within San Joaquin County as a whole. Data for the nearest monitoring site (Tracy-Airport) has insufficient data.

SOURCE: CALIFORNIA AIR RESOURCES BOARD (AEROMETRIC DATA ANALYSIS AND MANAGEMENT SYSTEM OR IADAM) AIR POLLUTION SUMMARIES.

ODORS

Typically, odors are regarded as an annoyance rather than a health hazard. However, manifestations of a person's reaction to foul odors can range from psychological (e.g., irritation, anger, or anxiety) to physiological (e.g., circulatory and respiratory effects, nausea, vomiting, and headache).

With respect to odors, the human nose is the sole sensing device. The ability to detect odors varies considerably among the population and overall is quite subjective. Some individuals have the ability

to smell minute quantities of specific substances; others may not have the same sensitivity but may have sensitivities to odors of other substances. In addition, people may have different reactions to the same odor; in fact, an odor that is offensive to one person (e.g., from a fast-food restaurant) may be perfectly acceptable to another.

It is also important to note that an unfamiliar odor is more easily detected and is more likely to cause complaints than a familiar one. This is because of the phenomenon known as odor fatigue, in which a person can become desensitized to almost any odor and recognition only occurs with an alteration in the intensity.

Quality and intensity are two properties present in any odor. The quality of an odor indicates the nature of the smell experience. For instance, if a person describes an odor as flowery or sweet, then the person is describing the quality of the odor. Intensity refers to the strength of the odor. For example, a person may use the word "strong" to describe the intensity of an odor. Odor intensity depends on the odorant concentration in the air.

When an odorous sample is progressively diluted, the odorant concentration decreases. As this occurs, the odor intensity weakens and eventually becomes so low that the detection or recognition of the odor is quite difficult. At some point during dilution, the concentration of the odorant reaches a detection threshold. An odorant concentration below the detection threshold means that the concentration in the air is not detectable by the average human.

SENSITIVE RECEPTORS

Some land uses are considered more sensitive to air pollution than others due to the types of population groups or activities involved. Sensitive population groups include children, the elderly, the acutely ill, and the chronically ill, especially those with cardiorespiratory diseases. A sensitive receptor is a location where human populations, especially children, seniors, and sick persons, are present and where there is a reasonable expectation of continuous human exposure to pollutants. Examples of sensitive receptors include residences, hospitals, and schools. The closest sensitive receptors to the Project are located as follows:

- A cluster of farmhouses/residences is located along the western portion of the Project site, adjacent to the Project site²;
- A cluster of residences is located approximately 2,000 feet to the southwest of the Project site;
- Additional scattered residences are located approximately 2,200 to 3,000 feet to the south and southwest of the Project site;
- Residences are located approximately 900 feet to the southeast of the Project site; and

² It should be noted that the City is currently processing an application to annex this adjacent property at 16286 W. Schulte Road into the City and develop a proposed one-story, approximately 217,466 square foot industrial warehouse and associated truck trailer and employee parking lots thereon.

 An additional residence is located approximately 2,650 feet to the southeast of the Project site.

3.3.2 REGULATORY SETTING

LOCAL

City of Tracy General Plan

The City of Tracy General Plan includes several goals, objectives, and policies that are relevant to air quality. General Plan policies applicable to the Project are identified below:

POLICIES: AIR QUALITY ELEMENT

- AQ-1.1-P1. The City shall promote land use patterns that reduce the number and length of motor vehicle trips.
- AQ-1.1-P2. To the extent feasible, the City shall maintain a balance and match between jobs and housing.
- AQ-1.1-P4. Employment areas should include a mix of support services to minimize the number of trips.
- AQ-1.2-P1. The City shall assess air quality impacts using the latest version of the CEQA Guidelines and guidelines prepared by the San Joaquin Valley Air Pollution Control District.
- AQ-1.2-P2. The City shall assess through the CEQA process any air quality impacts of development projects that may be insignificant by themselves, but cumulatively significant.
- AQ-1.2-P3. Developers shall implement best management practices to reduce air pollutant emissions associated with the construction and operation of development projects.
- AQ-1.2-P4. New development projects should incorporate energy efficient design features for HVAC, lighting systems and insulation that exceed Title 24.
- AQ-1.2-P5. Use of solar water and pool heaters is encouraged.
- AQ-1.2-P6. Installation of solar voltaic panels on new homes and businesses shall be encouraged.
- AQ-1.2-P7. Trees should be planted on the south- and west-facing sides of new buildings or buildings undergoing substantial renovation in order to reduce energy usage.
- AQ-1.2-P9. New developments shall follow the current requirements of the SJVAPCD with respect to wood burning fireplaces and heaters.
- AQ-1.2-P10. Stationary air pollutant emission sources (e.g. factories) shall be located an
 appropriate distance away and down-wind from residential areas and other sensitive
 receptors.
- AQ-1.2-P12. New sources of toxic air pollutants shall prepare a Health Risk Assessment as required under the Air Toxics "Hot Spots" Act and, based on the results of the Assessment, establish appropriate land use buffer zones around those areas posing substantial health risks.

- 3.3
- AQ-1.2-P13. Dust control measures consistent with San Joaquin Valley Air Pollution Control
 District rules shall be required as a condition of approval for subdivision maps, site plans,
 and all grading permits.
- AQ-1.2-P14. Developments that significantly impact air quality shall only be approved if all feasible mitigation measures to avoid, minimize or offset the impact are implemented.
- AQ-1.2-P15. Encourage businesses to electrify loading docks or implement idling-reduction systems so that trucks transporting refrigerated goods can continue to power cab cooling elements during loading, layovers, and rest periods.
- AQ-1.2-P16. Encourage the use of Best Management Practices in agriculture and animal operations.
- AQ-1.3-P1. The City shall continue to work with the San Joaquin Council of Governments on regional transportation solutions.
- AQ-1.3-P3. The City shall encourage employers to establish Transportation Demand Management programs.
- AQ-1.3-P5. The City shall require direct pedestrian and bicycle linkages from residential areas to parks, schools, retail areas, high-frequency transit facilities and major employment areas.

POLICIES: CIRCULATION ELEMENT

- CIR-1.1-P3: The City shall continue to apply traffic mitigation fee programs to fund transportation infrastructure, based on a fair share of facility use.
- CIR-1.1-P6: The Roadway Master Plan update shall identify necessary improvements to various intersections on I-205 and I-580 based on land use designations and with particular attention to Terminal Access Routes in accordance with Surface Transportation Assistance Act of 1982 (STAA).
- CIR-1.2-P3: New development shall be designed to provide vehicular, bicycle and pedestrian connections with adjacent developments.
- CIR-1.2-P5: New development shall be designed with a grid or modified grid pattern to facilitate traffic flows and to provide multiple connections to arterial streets.
- CIR-3.1-P6: New development shall include pedestrian and bicycle facilities internal to the
 development and that connect to citywide facilities, such as parks, schools and recreational
 corridors, as well as adjacent development and other services.
- CIR-3.1-P7: New development sites for commercial, employment, educational, recreational and park-and-ride land uses shall provide bicycle parking and/or storage facilities.

POLICIES: ECONOMIC DEVELOPMENT ELEMENT

- ED-1.2-P1: The City shall encourage businesses that use green practices.
- ED-1.2-P2: The City shall conduct public education and outreach to support employment opportunities that minimize the need for automobile trips, such as live/work, telecommuting, satellite work centers, and home occupations, in addition to mixed-use development strategies.

San Joaquin Valley Air Pollution Control District

The primary role of SJVAPCD is to develop plans and implement control measures in the SJVAB to control air pollution. These controls primarily affect stationary sources such as industry and power plants. Rules and regulations have been developed by SJVAPCD to control air pollution from a wide range of air pollution sources. SJVAPCD also provides uniform procedures for assessing potential air quality impacts of proposed projects and for preparing the air quality section of environmental documents.

AIR QUALITY PLANNING

The U.S. EPA requires states that have areas that do not meet the National AAQS to prepare and submit air quality plans showing how the National AAQS will be met. If the states cannot show how the National AAQS will be met, then the states must show progress toward meeting the National AAQS. These plans are referred to as the SIP. In October 2018, the CARB adopted the 2018 Updates to the California State Implementation Plan.

In addition, the CARB requires regions that do not meet California AAQS for ozone to submit clean air plans (CAPs) that describe measures to attain the standard or show progress toward attainment. To ensure federal CAA compliance, SJVAPCD is currently developing plans for meeting new National AAQS for ozone and PM_{2.5} and the California AAQS for PM₁₀ in the SJVAB (for California CAA compliance). The following describes the air plans prepared by the SJVAPCD.

8-Hour Ozone Plan

The SJVAPCD's Governing Board adopted the 2007 Ozone Plan on April 30, 2007. This far-reaching plan, with innovative measures and a "dual path" strategy, assures expeditious attainment of the federal 8-hour ozone standard as set by U.S. EPA in 1997. The CARB approved the plan on June 14, 2007. The U.S. EPA approved the 2007 Ozone Plan effective April 30, 2012. SJVAPCD adopted the 2016 Ozone Plan to address the federal 2008 8-hour ozone standard, which must be attained by end of 2031.^{3,4} More recently, a new ozone attainment plan is under development. Specifically, the 2022 Ozone Plan for the Attainment of the 2015 Federal 8-hour Ozone Standard was adopted on December 15, 2022.

PM₁₀ PLAN

Based on PM_{10} measurements from 2003 to 2006, the U.S. EPA found that the SJVAB has reached federal PM_{10} standards. On September 21, 2007, the SJVAPCD's Governing Board adopted the 2007 PM_{10} Maintenance Plan and Request for Redesignation. This plan demonstrated that the valley would continue to meet the PM_{10} standard. U.S. EPA approved the document and on September 25, 2008, the SJVAB was redesignated to attainment/maintenance (SJVAPCD, 2015).

³ SJVAPCD. Ozone Plans. http://www.valleyair.org/ Air_Quality_Plans/Ozone_Plans.htm, accessed March 3, 2020

⁴ SJVAPCD. 2016 Plan for the 2008 8-Hour Ozone Standard, http://www.valleyair.org/Air_Quality_Plans/Ozone-Plan-2016.htm, accessed March 3, 2020.

PM2.5 PLAN

The SJVAPCD adopted the 2018 Plan for the 1997, 2006, and 2012 PM_{2.5} Standards on November 15, 2018.⁵ This plan addresses the U.S. EPA federal 1997 annual PM_{2.5} standard of 15 μ g/m³ and 24-hour PM_{2.5} standard of 65 μ g/m³; the 2006 24-hour PM_{2.5} standard of 35 μ g/m³; and the 2012 annual PM_{2.5} standard of 12 μ g/m³. This plan demonstrates attainment of the federal PM_{2.5} standards as expeditiously as practicable (SJVAPCD, 2020).

All of the above-referenced plans include measures (i.e., federal, state, and local) that would be implemented through rule making or program funding to reduce air pollutant emissions in the SJVAB. Transportation control measures are part of these plans.

SJVAPCD RULES AND REGULATIONS

SJVAPCD Indirect Source Review

On December 15, 2005, SJVAPCD adopted the Indirect Source Review Rule (ISR or Rule 9510) to reduce ozone precursors (i.e., ROG and NOx) and PM_{10} emissions from new land use development projects. Specifically, Rule 9510 targets the indirect emissions from vehicles and construction equipment associated with these projects and applies to both construction and operational-related impacts. The rule applies to the proposed Project since it proposes more than 25,000 square feet of light industrial uses.

This rule requires the applicants of certain development projects which equal or exceed established applicability thresholds to apply to the SJVAPCD when applying for the development's last discretionary approval. Projects subject to the rule are required to quantify indirect emissions (mobile source emissions), area source emissions and construction exhaust emissions and to mitigate a portion of these emissions. The Indirect Source Rule was adopted December 2005 and last amended December 2017. Rule 9510 was adopted to reduce the impacts of growth in emissions from all new development in the San Joaquin Valley. Developers of projects subject to Rule 9510 must reduce emissions occurring during construction and operational phases through on-site measures or pay off-site mitigation fees. One hundred percent of all off-site mitigation fees are used by the SJVAPCD to fund emission reduction projects through its Incentive Programs, achieving emission reductions on behalf of the project. The emission reduction expected from the rule allow the SJVAPCD to achieve attainment of the federal air quality standards for ozone by 2031.

The rule requires all subject, nonexempt projects to mitigate both construction and operational period emissions by (1) applying feasible SJVAPCD-approved mitigation measures, or (2) paying any applicable fees to support programs that reduce emissions. Off-site emissions reduction fees (off-site fees) are required for projects that do not achieve the required emissions reductions through on-site emission reduction measures. Phased projects can defer payment of fees in accordance with an Off-site Emissions Reduction Fee Deferral Schedule (FDS) approved by the SJVAPCD.

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⁵ SJVAPCD. Particulate Matter Plans. http://valleyair.org/Air_Quality_Plans/PM_Plans.htm, accessed March 9, 2020.

To determine how an individual project would satisfy Rule 9510, each project would submit an air quality impact assessment (AIA) to the SJVAPCD as early as possible, but no later than prior to the project's final discretionary approval, to identify the project's baseline unmitigated emissions inventory for indirect sources: on-site exhaust emissions from construction activities and operational activities from mobile and area sources of emissions (excludes fugitive dust and permitted sources). Rule 9510 requires the following reductions, which are levels that the SJVAPCD has identified as necessary, based on its air quality management plans, to reach attainment for ozone and particulate matter:

Construction Equipment Emissions

The exhaust emissions for construction equipment greater than 50 horsepower (hp) used or associated with the development project shall be reduced by the following amounts from the statewide average as estimated by CARB:

- 20 percent of the total NOx emissions
- 45 percent of the total PM₁₀ exhaust emissions

AIA mitigation strategies may include those that reduce construction emissions on-site by using less polluting construction equipment, which can be achieved by utilizing add-on controls, cleaner fuels, or newer, lower emitting equipment.

Operational Emissions

- NOx Emissions. Applicants shall reduce 33.3 percent of the project's operational baseline NOx emissions over a period of 10 years as quantified in the approved AIA.
- PM₁₀ Emissions. Applicants shall reduce 50 percent of the project's operational baseline PM₁₀ emissions over a period of 10 years as quantified in the approved AIA.

These requirements listed above can be met through any combination of on-site emissions reduction measures. In the event that a project cannot achieve the above standards through imposition of mitigation measures, then the project would be required to pay the applicable off-site fees. These fees are used to fund various incentive programs that cover the purchase of new equipment, engine retrofit, and education and outreach.

Fugitive PM₁₀ Prohibitions

SJVAPCD controls fugitive PM_{10} through Regulation VIII, Fugitive PM_{10} Prohibitions. The purpose of this regulation is to reduce ambient concentrations of PM_{10} and $PM_{2.5}$ by requiring actions to prevent, reduce, or mitigate anthropogenic (human caused) fugitive dust emissions.

- Regulation VIII, Rule 8021 applies to any construction, demolition, excavation, extraction, and other earthmoving activities, including, but not limited to, land clearing, grubbing, scraping, travel on-site, and travel on access roads to and from the site.
- Regulation VIII, Rule 8031 applies to the outdoor handling, storage, and transport of any bulk material.
- Regulation VIII, Rule 8041 applies to sites where carryout or trackout has occurred or may occur on paved roads or the paved shoulders of public roads.

- Regulation VIII, Rule 8051 applies to any open area having 0.5 acre or more within urban areas or 3.0 acres or more within rural areas, and contains at least 1,000 square feet of disturbed surface area.
- Regulation VIII, Rule 8061 applies to any new or existing public or private paved or unpaved road, road construction project, or road modification project.
- Regulation VIII, Rule 8071 applies to any unpaved vehicle/equipment traffic area.
- Regulation VIII, Rule 8081 applies to off-field agricultural sources.

Sources regulated are required to provide Dust Control Plans that meet the regulation requirements. Under Rule 8021, a Dust Control Plan is required for any residential project that will include 10 or more acres of disturbed surface area, a nonresidential project with 5 or more acres of disturbed surface area, or a project that relocates 2,500 cubic yards per day of bulk materials for at least three days. The Dust Control Plan is required to be submitted to SJVAPCD prior to the start of any construction activity. The Dust Control Plan must also describe fugitive dust control measures to be implemented before, during, and after any dust-generating activity.

Cutback, Slow Cure, and Emulsified Asphalt, Paving and Maintenance Operations

If asphalt paving will be used, then paving operations of the proposed Project will be subject to Rule 4641. This rule applies to the manufacture and use of cutback asphalt, slow cure asphalt and emulsified asphalt for paving and maintenance operations.

Nuisance Odors

SJVAPCD controls nuisance odors through implementation of Rule 4102, Nuisance. Pursuant to this rule, "a person shall not discharge from any source whatsoever such quantities of air contaminants or other materials which cause injury, detriment, nuisance or annoyance to any considerable number of persons or to the public or which endanger the comfort, repose, health, or safety of any such person or the public or which cause or have a natural tendency to cause injury or damage to business or property."

Employer Based Trip Reduction Program

SJVAPCD has implemented Rule 9410, Employer Based Trip Reduction. The purpose of this rule is to reduce VMT from private vehicles used by employees to commute to and from their worksites to reduce emissions of NOx, ROG, and particulate matter (PM₁₀ and PM_{2.5}). The rule applies to employers with at least 100 employees. Employers are required to implement an Employer Trip Reduction Implementation Plan (ETRIP) for each worksite with 100 or more eligible employees to meet applicable targets specified in the rule. Employers are required to facilitate the participation of the development of ETRIPs by providing information to their employees explaining the requirements and applicability of this rule. Employers are required to prepare and submit an ETRIP for each worksite to the District. The ETRIP must be updated annually. Under this rule, employers shall collect information on the modes of transportation used for each eligible employee's commutes both to and from work for every day of the commute verification period, as defined in using either the mandatory commute verification method or a representative survey method. Annual reporting includes the results of the commute verification for the previous calendar year along with the measures implemented as outlined in the ETRIP and, if necessary, any updates to the ETRIP.

Visible Emissions

SJVAPCD controls visible emissions through Rule 4101, Visible Emissions. The purpose of this regulation is to prohibit visible air contaminants in the atmosphere. This rule requires that a person shall not discharge into the atmosphere from any single source of emission whatsoever any air contaminant, other than uncombined water vapor, for a period or periods aggregating more than three (3) minutes in any one (1) hour which is:

- As dark or darker in shade as that designated as No. 1 on the Ringelmann Chart, as published by the United States Bureau of Mines.
- Of such opacity as to obscure an observer's view to a degree equal to or greater than the smoke described in Section 5.1 of this rule.

Architectural Coatings

The purpose of SJVAPCD Rule 4601 is to limit VOC emissions from architectural coatings. This rule specifies architectural coatings storage, cleanup, and labeling requirements. This rule is applicable to any person who supplies, markets, sells, offers for sale, applies, or solicits the application of any architectural coating, or who manufactures, blends or repackages any architectural coating for use within the District.

FEDERAL

Clean Air Act

The FCAA was first signed into law in 1970. In 1977, and again in 1990, the law was substantially amended. The FCAA is the foundation for a national air pollution control effort, and it is composed of the following basic elements: NAAQS for criteria air pollutants, hazardous air pollutant standards, state attainment plans, motor vehicle emissions standards, stationary source emissions standards and permits, acid rain control measures, stratospheric ozone protection, and enforcement provisions.

The U.S. EPA is responsible for administering the FCAA. The FCAA requires the U.S. EPA to set NAAQS for several air pollutants based on human health and welfare criteria. Two types of NAAQS were established: primary standards, which protect public health (with an adequate margin of safety, including for sensitive populations such as children, the elderly, and individuals suffering from respiratory diseases), and secondary standards, which protect the public welfare from non-health-related adverse effects such as visibility reduction.

NAAQS standards define clean air and represent the maximum amount of pollution that can be present in outdoor air without any harmful effects on people and the environment. Existing violations of the ozone and PM_{2.5} ambient air quality standards indicate that certain individuals exposed to these pollutants may experience certain health effects, including increased incidence of cardiovascular and respiratory ailments.

Although there is some variability among the health effects of the NAAQS pollutants, each has been linked to multiple adverse health effects including, among others, premature death, hospitalizations

and emergency department visits for exacerbated chronic disease, and increased symptoms such as coughing and wheezing.

Federal Hazards Air Pollutants Program

The 1977 CAA Amendments required the USEPA to identify National Emissions Standards for Hazardous Air Pollutants (NESHAPs) to protect the public health and welfare. Hazardous air pollutants include certain VOCs, pesticides, herbicides, and radionuclides that present a tangible hazard, based on scientific studies of exposure to humans and other mammals. Under the 1990 CAA Amendments, which expanded the control program for hazardous air pollutants, 189 substances and chemical families were identified as hazardous air pollutants.

Federal Heavy-duty Engines and Vehicles Fuel Efficiency Standards

In 2010, President Obama issued a memorandum directing federal agencies to establish additional standards regarding fuel efficiency and GHG reduction, clean fuels, and advanced vehicle infrastructure. In response to this directive, the USEPA and National Highway Traffic Safety Administration (NHTSA) proposed stringent, coordinated federal GHG and fuel economy standards for model year 2017–2025 light-duty vehicles.

STATE

California Clean Air Act

The California Legislature enacted the California Clean Air Act (CCAA) in 1988 to address air quality issues of concern not adequately addressed by the federal CAA at the time. California's air quality problems were and continue to be some of the most severe in the nation and required additional actions beyond the federal mandates. The CARB administers California Ambient Air Quality Standards (CAAQS) for the 10 air pollutants designated in the CCAA. The 10 State air pollutants are the six pollutants subject to federal standards listed above as well as visibility reducing particulates, hydrogen sulfide, sulfates, and vinyl chloride. The U.S. EPA authorized California to adopt its own regulations for motor vehicles and other sources that are more stringent than similar federal regulations implementing the CAA. Generally, the planning requirements of the federal CAA are less stringent than the CCAA; therefore, consistency with the CCAA will also demonstrate consistency with the federal CAA.

CARB Mobile-Source Regulation

The State of California is responsible for controlling emissions from the operation of motor vehicles in the State. Rather than mandating the use of specific technology or the reliance on a specific fuel, the CARB motor vehicle standards specify the allowable grams of pollution per mile driven. In other words, the regulations focus on the reductions needed rather than on the manner in which they are achieved. Towards this end, the CARB has adopted regulations that require auto manufacturers to phase in less-polluting vehicles.

California Air Quality Standards

Although NAAQS are determined by the U.S. EPA, states have the ability to set standards that are more stringent than the federal standards. As such, California established more stringent ambient air quality standards (i.e. CAAQS), which include the NAAQS as well as visibility reducing particulates, hydrogen sulfide, sulfates, and vinyl chloride. However, both federal and state ambient air quality standards have been established for ozone, carbon monoxide, nitrogen dioxide, sulfur dioxide, suspended particulates and lead. In addition, California has created standards for pollutants that are not covered by federal standards. Although there is some variability among the health effects of the CAAQS pollutants, each has been linked to multiple adverse health effects including, among others, premature death, hospitalizations and emergency department visits for exacerbated chronic disease, and increased symptoms such as coughing and wheezing. The existing state and federal primary standards for major pollutants are shown in Table 3.3-1.

Tanner Air Toxics Act (TACs)

California regulates TACs primarily through the Tanner Air Toxics Act (AB 1807) and the Air Toxics Hot Spots Information and Assessment Act of 1987 (AB 2588). The Tanner Air Toxics Act sets forth a formal procedure for CARB to designate substances as TACs. This includes research, public participation, and scientific peer review before CARB can designate a substance as a TAC. To date, CARB has identified more than 21 TACs and has adopted U.S. EPA's list of Hazardous Air Pollutants (HAPs) as TACs. Most recently, diesel PM was added to the CARB list of TACs. Once a TAC is identified, CARB then adopts an Airborne Toxics Control Measure (ATCM) for sources that emit that particular TAC. If there is a safe threshold for a substance at which there is no toxic effect, the control measure must reduce exposure below that threshold. If there is no safe threshold, the measure must incorporate Best Available Control Technologies (BACT) to minimize emissions.

Toxic Air Contaminants Health Effects

A toxic air contaminant (TAC) is defined as an air pollutant that may cause or contribute to an increase in mortality or serious illness, or that may pose a hazard to human health. TACs are usually present in minute quantities in the ambient air; however, their high toxicity or health risk may pose a threat to public health even at low concentrations. The California Almanac of Emissions and Air Quality presents the relevant concentration and cancer risk data for the 10 TACs that pose the most substantial health risk in California based on available data. The 10 TACs are acetaldehyde, benzene, 1.3-butadiene, carbon tetrachloride, hexavalent chromium, para-dichlorobenzene, formaldehyde, methylene chloride, perchloroethylene, and diesel particulate matter (DPM).

Some studies indicate that DPM poses the greatest health risk among the TACs listed above. A 10-year research program demonstrated that DPM from diesel-fueled engines is a human carcinogen and that chronic (long-term) inhalation exposure to DPM poses a chronic health risk. In addition to increasing the risk of lung cancer, exposure to diesel exhaust can have other health effects. Diesel exhaust can irritate the eyes, nose, throat, and lungs, and it can cause coughs, headaches, lightheadedness, and nausea. Diesel exhaust is a major source of fine particulate pollution as well, and studies have linked elevated particle levels in the air to increased hospital admissions,

emergency room visits, asthma attacks, and premature deaths among those suffering from respiratory problems.

DPM differs from other TACs in that it is not a single substance, but a complex mixture of hundreds of substances. Although DPM is emitted by diesel-fueled, internal combustion engines, the composition of the emissions varies, depending on engine type, operating conditions, fuel composition, lubricating oil, and whether an emission control system is present. Unlike the other TACs, however, no ambient monitoring data are available for DPM because no routine measurement method currently exists. The CARB has made preliminary concentration estimates based on a DPM exposure method. This method uses the CARB emissions inventory's PM₁₀ database, ambient PM₁₀ monitoring data, and the results from several studies to estimate concentrations of DPM.

Transportation Control Measures

The State Implementation Plan (SIP) describes the infrastructure (authorities, resources, and programs) California has in place to implement, maintain, and enforce the NAAQS. One particular aspect of the development process is the consideration of potential control measures as a part of making progress towards clean air goals. While most SIP control measures are aimed at reducing emissions from stationary sources, some are typically also created to address mobile or transportation sources. These are known as transportation control measures (TCMs). TCM strategies are designed to reduce vehicle miles traveled and trips, or vehicle idling and associated air pollution. These goals are achieved by developing attractive and convenient alternatives to single-occupant vehicle use. Examples of TCMs include ridesharing programs, transportation infrastructure improvements such as adding bicycle and carpool lanes, and expansion of public transit.

Omnibus Low-NOx Rule

CARB approved the Omnibus Low-NOx Rule on August 28, 2020, which will require engine NOx emissions to be cut to approximately 75% below current standards beginning in 2024, and 90% below current standards in 2027. The rule also places nine additional regulatory requirements on new heavy-duty trucks and engines. Those additional requirements include a 50% reduction in particulate matter emissions, stringent new low-load and idle standards, a new in-use testing protocol, extended deterioration requirements, a new California-only credit program, and extended mandatory warranty requirements. The regulatory requirements in the Omnibus Low-NOx Rule will first become effective in 2024, at the same time as the Advanced Clean Trucks regulations that CARB approved that require manufacturers to convert increasing percentages of their heavy-duty trucks sold in California to zero-emission vehicles.

Low Emission Vehicle Program

The CARB first adopted Low Emission Vehicle (LEV) program standards in 1990. These first LEV standards ran from 1994 through 2003. LEV II regulations, running from 2004 through 2010, represent continuing progress in emission reductions. As the State's passenger vehicle fleet continues to grow and more sport utility vehicles and pickup trucks are used as passenger cars rather than work vehicles, the more stringent LEV II standards were adopted to provide reductions necessary for California to meet federally mandated clean air goals outlined in the 1994 State

Implementation Plan (SIP). In 2012, the CARB adopted the LEV III amendments to California's LEV regulations. These amendments, also known as the Advanced Clean Car Program, include more stringent emission standards for model years 2017 through 2025 for both criteria pollutants and greenhouse gas (GHG) emissions for new passenger vehicles.

On September 23, 2020, Governor Gavin Newsom issued Executive Order N-79-20 establishing a goal that 100 percent of new passenger cars and trucks sold in California shall be zero-emission by 2035. The Executive Order also sets a goal that, where feasible, all operations include zero-emission medium- and heavy-duty trucks by 2045, and drayage trucks by 2035. Off-road vehicles have a goal to transition to 100 percent zero-emission vehicles by 2035, where feasible.

On-Road Heavy-Duty Vehicle Program

The CARB has adopted standards for emissions from various types of new on-road heavy-duty vehicles. Section 1956.8, Title 13, California Code of Regulations contains California's emission standards for on-road heavy-duty engines and vehicles, and test procedures. The CARB has also adopted programs to reduce emissions from in-use heavy-duty vehicles including the Heavy-Duty Diesel Vehicle Idling Reduction Program, the Heavy-Duty Diesel In-Use Compliance Program, the Public Bus Fleet Rule and Engine Standards, and the School Bus Program and others. Further, the CARB has also adopted the Advanced Clean Trucks Regulation and the Advanced Clean Fleets Regulation. The Advanced Clean Trucks Regulation is a manufacturers ZEV sales requirement and a one-time reporting requirement for large entities and fleets. Similarly, the Advanced Clean Fleets Regulation will help advance the introduction of zero-emission technologies into California's truck and bus fleets, requiring fleets that are well suited for electrification to transition to zero-emission vehicles (ZEV) through requirements to phase in the use of ZEVs for targeted fleets and requirements that manufacturers only manufacture ZEV trucks starting in the 2036 model year.

California Air Resources Board Regulation for In-Use Off-Road Diesel Vehicles

On July 26, 2007, the CARB adopted a regulation to reduce DPM and NOx emissions from in-use (existing) off-road heavy-duty diesel vehicles in California. Such vehicles are used in construction, mining, and industrial operations. The regulation limits idling to no more than five consecutive minutes, requires reporting and labeling, and requires disclosure of the regulation upon vehicle sale. The CARB is enforcing that part of the rule with fines up to \$10,000 per day for each vehicle in violation. Performance requirements of the rule are based on a fleet's average NOx emissions, which can be met by replacing older vehicles with newer, cleaner vehicles or by applying exhaust retrofits. The California Air Resources Board (CARB) approved amendments to the In-Use Off-Road Diesel-Fueled Fleets Regulation (Off-Road Regulation) on November 17, 2022, aimed at further reducing emissions from the off-road sector.

The regulation applies to nearly all privately and federally owned diesel-fueled trucks and buses and to privately and publicly owned school buses with a gross vehicle weight rating (GVWR) greater than 14,000 pounds. The regulation provides a variety of flexibility options tailored to fleets operating

low use vehicles, fleets operating in selected vocations like agricultural and construction, and small fleets of three or fewer trucks.6

Diesel Risk Reduction Plan

The CARB's Diesel Risk Reduction Plan has led to the adoption of new State regulatory standards for all new on-road, off-road, and stationary diesel-fueled engines and vehicles to reduce DPM emissions by about 90 percent overall from year 2000 levels. The projected emission benefits associated with the full implementation of this plan, including federal measures, are reductions in DPM emissions and associated cancer risks of 75 percent by 2010, and 85 percent by 2020.⁷

3.3.3 IMPACTS AND MITIGATION MEASURES

THRESHOLDS OF SIGNIFICANCE

Consistent with Appendix G of the CEQA Guidelines, the proposed Project will have a significant impact on the environment associated with air quality if it will:

- Conflict with or obstruct implementation of the applicable air quality plan;
- Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is in non-attainment under an applicable federal or state ambient air quality standard;
- Expose sensitive receptors to substantial pollutant concentrations; and/or
- Result in other emissions (such as those leading to odors) adversely affecting a substantial number of people.

APPROACH TO ANALYSIS

While the final determination of whether a project is significant is within the purview of the Lead Agency pursuant to Section 15064(b) of the CEQA Guidelines, the SJVAPCD recommends that its quantitative air pollution thresholds be used to determine the significance of project emissions. If the Lead Agency finds that the project would exceed these air pollution thresholds, the project should be considered to have significant air quality impacts. The applicable SJVAPCD thresholds and methodologies are contained under each impact statement below, as the City, in its discretion, has determined to utilize these thresholds and methodologies, which are based on scientific and factual data.

⁶ California Air Resources Board (CARB). 2021. Truck and Bus Regulation. Website: http://www.arb.ca.gov/msprog/onrdiesel/onrdiesel.htm. Accessed February 16, 2021.

California Air Resources Board (CARB). 2021. Diesel Risk Reduction Plan. Website: https://ww2.arb.ca.gov/our-work/programs/diesel-risk-reduction-plan. Accessed February 16, 2021.

This analysis was performed consistent with the guidance and methodologies provided by the SJVAPCD's GAMAQI.⁸ Based on the SJVAPCD New Source Review (NSR) offset requirements for stationary sources, the SJVAPCD has established thresholds of significance for criteria pollutant emissions, shown in Table 3.3-6. These thresholds apply to the project because these air pollutants would be generated during project construction and operation and constitute criteria pollutants or precursor emissions for criteria pollutants, which are regulated by the federal and State Clean Air Acts.

TABLE 3.3-6: SAN JOAQUIN VALLEY AIR POLLUTION CONTROL DISTRICT SIGNIFICANCE THRESHOLDS

POLLUTANT	Construction Thresholds (TPY)	Operational Thresholds (TPY)		
ROG	10	10		
NOx	10	10		
СО	100	100		
SOx	27	27		
PM ₁₀	15	15		
PM _{2.5}	15	15		

SOURCES: SAN JOAQUIN VALLEY AIR POLLUTION CONTROL DISTRICT (SJVAPCD). 2015. GUIDANCE FOR ASSESSING AND MITIGATING AIR QUALITY IMPACT. WEBSITE:

HTTPS://www.valleyair.org/transportation/CEQA%20Rules/GAMAQI%20Jan%202002%20Rev.pdf Accessed June 8, 2022.

The SJVAPCD has also established significance thresholds to assess the impacts of project-related construction and operational emissions on regional and local ambient air quality. Table 3.3-7 shows the daily mass emissions screening criteria for construction and operation as adopted by the SJVAPCD for CAP and TAC emissions. The analysis summarized in this report estimates project-related construction and operational mass emissions and compares the emissions to these significance thresholds.

TABLE 3.3-7: SJVAPCD DAILY MASS EMISSIONS SCREENING CRITERIA

POLLUTANT	Construction Thresholds (Pounds per day)	OPERATIONAL THRESHOLDS (POUNDS PER DAY)		
ROG	100	100		
NOx	100	100		
CO	100	100		
SOx	100	100		
PM ₁₀	100	100		
PM _{2.5}	100	100		

SOURCES: SAN JOAQUIN VALLEY AIR POLLUTION CONTROL DISTRICT (SJVAPCD). 2015. GUIDANCE FOR ASSESSING AND MITIGATING AIR QUALITY IMPACT. WEBSITE:

HTTPS://WWW.VALLEYAIR.ORG/TRANSPORTATION/CEQA%20RULES/GAMAQI%20JAN%202002%20REV.PDF

https://www.valleyair.org/transportation/CEQA%20Rules/GAMAQI%20Jan%202002%20Rev.pdf Accessed June 8, 2022.

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⁸ San Joaquin Valley Air Pollution Control District (SJVAPCD). 2015. Guidance for Assessing and Mitigating Air Quality Impact. Website:

ACCESSED JUNE 8, 2022.

The daily mass emissions screening criteria provided in Table 3.3-7 represent screening-level thresholds that can be used to evaluate whether project-related emissions would cause a significant impact on air quality. Emissions below the screening-level thresholds would not cause a significant impact. In the event that emissions exceed those thresholds, modeling would be required to demonstrate that the project's total air quality impacts result in ground-level concentrations that are below the CAAQS and NAAQS, including appropriate background levels.

CRITERIA POLLUTANT EMISSIONS MODELING

California Emission Estimator Model (CalEEMod)[™] (v.2022.1), developed for the California Air Pollution Officers Association (CAPCOA) in collaboration with California air districts, was used to estimate emissions for the proposed Project. Project construction was assumed to be completed in 2026. However, the exact timing of Project construction would depend on Project needs, availability of materials and more. The modeled construction schedule is conservative, in that it assumes buildout of the Project much earlier than when it may occur; this represents a conservative approach to modeling, since the emissions efficiency of on- and off-road construction vehicles would increase over time.

It should also be noted that that, since CalEEMod does not allow for an individual model run to include multiple paving phases, the two 'Phase 1 Paving' and 'Phase 2 Paving' construction phases were modeled in separate CalEEMod model runs.

The land use assumptions for the modeling are: Unrefrigerated Warehouse – No Rail (543,330 square feet); Unrefrigerated Warehouse – No Rail (1,201,730 square feet); Other Asphalt Surfaces (60.19 acres). Vehicle trips, vehicle miles traveled (VMT), and fleet mix estimated in the modeling are consistent with those provided by Kimley Horn in its traffic analysis (see Appendix F of the Draft EIR for further detail).

The construction phase details are provided in Table 3.3-8, below. Project construction activities were assumed to occur six days per week, per the Project Applicant. See Appendix A.1 of this Recirculated Draft EIR for further detail.

CALEEMOD PHASE	CALEEMOD PHASE START DATE	CALEEMOD PHASE END DATE		
Site Preparation	Monday, 7/8/2024	Friday, 7/26/2024		
Grading	Monday, 7/29/2024	Friday, 12/20/2024		
Off-Site Grading	Tuesday, 12/24/2024	Monday, 12/15/2025		
Off-Site Improvements	Monday, 4/14/2025	Monday, 10/20/2025		
Off-Site Paving	Tuesday, 10/21/2025	Monday, 12/15/2025		
Phase 1 Building Construction	Monday, 12/23/2024	Monday, 12/29/2025		
Phase 1 Site Finishing	Monday, 9/29/2025	Sunday, 11/16/2025		
Phase 1 Paving	Monday, 11/17/2025	Friday, 12/19/2025		
Phase 2 Building Construction	Monday, 12/29/2025	Friday, 8/21/2026		

Monday, 5/18/2026

Monday, 7/20/2026

TABLE 3.3-8: ANTICIPATED CONSTRUCTION SCHEDULE

Phase 2 Site Finishing

Phase 2 Paving	Tuesday, 7/21/2026	Friday, 8/7/2026

SOURCE: PROJECT APPLICANT (AUGUST 22, 2023).

The following additional non-default CalEEMod model assumptions were utilized, based on information provided by the Project applicant:

- Soil import of 70,000 cubic yards during the Project's Grading phase;
- Off-road construction equipment to utilize "Tier IV" diesel engines, for equipment with a horsepower greater than 50 horsepower;
- Daily on-road construction haul trucks trips as follows:
 - Grading phase: 61 haul trips
 - Phase 1 Site Finishing: 48 haul trips
 - Phase 2 Site Finishing: 73 haul trips
 - o Off-site Paving: 12 haul trips
 - o Off-site Improvements: 11 haul trips
 - o Phase 1 Paving: 41 haul trips
 - o Phase 2 Paving: 146 haul trips
- Heavy-duty operational truck trips were assumed to travel 29 miles per one-way trip, on average, consistent with San Joaquin County's travel demand model;
- The 'General Category' consumer products emissions factor was revised to reflect the CARB adjustments applied to their Consumer and Commercial Product Survey Emission data, made after the 2008 consumer products emissions factor (the adjustment made to reflect the average adjustment factor).⁹

The following quantified Project sustainability features relevant to air quality emissions were quantitatively accounted for:

- Construction: Water Exposed Surfaces Twice Daily;
- Energy: Require Energy Efficient Appliances (commercial refrigerator).

PROJECT SUSTAINABILITY FEATURES

The Project applicant has committed to a variety of construction- and operation-related Project features with the goal to reduce Project emissions, reduce energy consumption, and/or promote sustainability. It should be noted that it is not possible to quantify the emissions reduction potential of each of the emissions-reducing Project features. Therefore, only the emissions reductions associated with select Project emissions-reducing features were quantified (see the list of non-default CalEEMod model assumptions provided above).

Below are some of the significant practices that Costco would incorporate into its new buildings and overall operations that help reduce emissions, and conserve energy and other natural resources:

⁹ See for further detail: https://ww2.arb.ca.gov/our-work/programs/consumer-products-program/consumer-products-emissions-inventory-and-temporal 0.0000107

CONSTRUCTION

- Construction equipment would use Tier IV-compliant engines or better for off-road construction equipment greater than 50 horsepower.
- Through the use of construction worker training and/or signage, Costco would limit heavy duty construction equipment idling to no more than 2 minutes, and in no instance shall such idling exceed 5 minutes.
- Through the use of signage, vehicle speeds on unpaved roads would be limited to < 15 mph.
- Electric hookups would be provided to reduce the need for diesel generators for electric
 construction equipment and, should diesel generators be needed, all such diesel generators
 would be equipped with emission control technology verified by EPA and/or CARB to reduce
 PM emissions by a minimum of 85%.
- During construction, heavy duty diesel hauling trucks would be model year 2010 or better.
- Costco would provide on-site meal options for construction workers.

SITE

- Parking lot lights are designed at 38' in height to provide even light distribution and utilize
 less energy compared to a greater number of fixtures at lower heights. LED lamps are used
 to provide a higher level of perceived brightness with less energy than other lamps such as
 high-pressure sodium.
- Dust, tire wear, brake dust and other parking lot contaminants would be minimized through regular sweeping/cleaning of parking lots.
- The project would provide no more parking spaces than the minimum required by the City (or less if authorized by the City and feasible for project operations).
- Costco would install Electric Vehicle (EV) capable (i.e., pre-wired) parking spaces as well as parking stalls with active EV charging stations per the California Building Code.

BUILDING

- New and renewable building materials are typically extracted and manufactured within the
 region. Materials such as concrete and concrete masonry units would be purchased local to
 the Project, minimizing the transport distances and resultant effects to road networks and
 regional air quality.
- Main building structures are comprised of pre-engineered systems that use 80% recycled steel. These pre-manufactured building components include structural framing and architectural metal wall and roof panels. These materials are shop finished, maximizing spans, and minimizing structure and waste during the construction process, reducing the overall construction duration.
- Solar PV panels would be installed on the roof of the buildings and/or elsewhere on site (e.g., awnings or canopies in parking areas) to generate approximately 3 MW of renewable electricity for use on site. Batteries would also be installed to store some of that electricity for on-site energy needs.
- To the extent they do not conflict with the proposed rooftop solar PV panels, all building roofs would maintain a reflectance rating of .68, emittance of .25 and Solar Reflectance

Index of 63, lessening heat gain. Reflective cool roof materials are used to lower heat absorption, subsequently lowering energy requirements during the hot summer months. This roofing material meets the requirements for the EPA's Energy Star energy efficiency program. Building management systems monitor performance and energy usage of HVAC systems.

- HVAC comfort systems are controlled by a computerized building management system to maximize efficiency. Costco's HVAC units are high efficiency direct ducted units. Costco completely phased out the use of HCFCs in its HVAC units, long before the Montreal Protocol timeline.
- Mechanical systems are site specifically commissioned and designed and field tested to
 ensure that the HVAC systems are performing to the high efficiency standards. HVAC
 systems would be all-electric and would use High Efficiency MERV filters.
- Electric charging infrastructure would be installed on the property to facilitate the conversion of the truck fleet to zero-emission electric trucks as they become available in the market and used for truck deliveries to and from the facility.
- Pre-manufactured insulated architectural metal walls meet or exceed current energy code requirements. Building heat absorption is further reduced by a decrease in the thermal mass of the metal wall when compared to a typical masonry block wall. Insulated architectural metal wall panels contain approximately 76 percent of recycled material.
- High-efficiency restroom fixtures are used, which conserves water by achieving a 40% decrease over U.S. standards.
- Energy efficient transformers (i.e., Square D Type EE transformers) are used.
- To the extent emergency back-up diesel generators are needed only Tier IV diesel generator engines or natural gas-powered would be used.
- The site's building energy efficiency would exceed Title 24 Building Envelope Energy Efficiency Standards by at least 1%
- All appliances to be installed would meet or exceed Title 24 requirements.
- All building coatings and paints would be low-VOC coatings.
- Variable speed motors would be used on make-up air units and booster pumps.
- Gas water heaters would be direct vent and 94% efficient or greater.
- Lighting systems are designed with employee controllability in mind. Lighting is controlled by timers, but over-ride switches are provided for employee use.

OPERATIONS

- Deliveries are made in full trucks whenever feasible.
- The facility would not be designed for or include refrigerated cold storage.
- Costco delivery trucks would be model year 2010 or newer and use ultra-low sulfur diesel fuel (ULSD) or biodiesel blend with sulfur content of 15 ppm or less so long as such fuel is commercially available.
- Costco trucks would be equipped with engine idle shut off timers and appropriate training would be provided and signage would be installed to ensure that all truck idling is limited to a maximum of two minutes.

- 3.3
- All exclusively onsite vehicles (i.e., forklifts, yard goats, pallet jacks, etc.) would be electric or zero-emission vehicles.
- Costco would train managers and employees on efficient scheduling and load management to minimize queuing and idling.
- Costco would include signage at docks, delivery areas and along truck routes to facilitate traffic and limit idling.
- Bicycle parking would be provided in the employee parking lot and at the front entry of each
- Costco would participate in and offer all employees the opportunity to make use of a ride share program.
- Costco would provide on-site meal options for employees (e.g., micro market vending machines that offer drink and food for sale to employees or food trucks [as regulated by Section 10.08.3193 - Mobile Food Vendors of the City's Municipal Code]) to minimize offsite employee trips during shifts.

IMPACTS AND MITIGATION MEASURES

Impact 3.3-1: Project operation would conflict with or obstruct implementation of the District's air quality plan. (Significant and Unavoidable)

The CEQA Guidelines indicate that a significant impact would occur if the proposed Project would conflict with or obstruct implementation of the applicable Air Quality Attainment Plan (AQAP). The CARB has developed a three-step approach to determine project conformity with the applicable AQAP:

- Determination that an AQAP is being implemented in the area where the project is being proposed.
- The proposed project must be consistent with the growth assumptions of the applicable AQAP.
- The project must contain in its design all reasonably available and feasible air quality control measures.

The proposed Project is in conformance with the AQAP, based on these criteria, as follows:

Determination that an AQAP is being implemented in the area where the project is being proposed.

The SJVAPCD has implemented the current, modified 2016 8-hour AQAP as approved by CARB and approved by USEPA for the 2008 8-hour O₃ standard.

The proposed project must be consistent with the growth assumptions of the applicable AQAP.

The San Joaquin Council of Governments (SJCOG) Regional Transportation Plan (RTP)/Sustainable Communities Strategy (SCS) growth projections provide for future employment/population factors. The development of the SJVAPCD AQAP is based in part on the land use general plan projections of the various cities and counties that constitute the Air Basin. The City of Tracy General Plan Land Use Element designates the Project site as Industrial, which is intended to accommodate flex/office space, manufacturing, warehousing and distribution, and ancillary uses for workers' needs. Therefore, the proposed Project, which involves the development of light industrial, warehouse and distribution and related uses, is considered consistent with the site's General Plan land use designation and its traffic would be included in volumes projected for analysis of the General Plan. The SJVAPCD AQAP is based on the growth assumptions of the City of Tracy General Plan and SJCOG RTP/SCS. Since the Project is consistent with the SJCOG RTP/SCS, and SJCOG RTP/SCS projections are incorporated into the SIP, the Project is also consistent with the SIP.

• The project must contain in its design all reasonably available and feasible air quality control measures.

The Project incorporates various policy and rule-required implementation measures that would reduce related emissions, including all of the current Air District rules and regulations. For example, the proposed Project would be required to implement Air District Rule 9510, which ensures that the Project would fulfill the Air District's emissions reduction commitments in the relevant PM₁₀ and Ozone Attainment plans. In addition, the Project would comply with all applicable stationary source permitting rules implemented by SJVAPCD, which further confirms the Project would not cause or contribute to any ambient air quality standard exceedances.

Nevertheless, for the sake of a conservative assessment, the proposed Project's potential impact to this environmental topic is considered *significant and unavoidable*. Therefore, the proposed Project would be required to implement Mitigation Measure 3.3-1, as provided below.

MITIGATION MEASURE(S)

Mitigation Measure 3.3-1: During Project operation, operators of heavy-duty trucks that travel to and from the Project site are required to use trucks that have 2010 model year or newer engines that meet the CARB's 2010 engine emission standards of 0.01 g/bhp-hr for particulate matter (PM) and 0.20 g/bhp-hr of NOx emissions, or newer, cleaner trucks and equipment.

Impact 3.3-2: The proposed Project would result in a cumulatively considerable net increase of a criteria pollutant for which the region is in nonattainment under an applicable federal or State ambient air quality standard. (Significant and Unavoidable)

If an area is in nonattainment for a criteria pollutant, then the background concentration of that pollutant has historically exceeded the ambient air quality standard. It follows that if a Project

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¹⁰ See here for further detail: https://www.valleyair.org/rules/1ruleslist.htm

¹¹ Compliance with Air District Rule 9510 is assumed under CEQA.

exceeds the regional threshold for that nonattainment pollutant, then it would result in a cumulatively considerable net increase of that pollutant and result in a significant cumulative impact.

The Air Basin is in nonattainment for PM_{10} , $PM_{2.5}$, and ozone. Therefore, if the proposed Project exceeds the regional thresholds for PM_{10} , or $PM_{2.5}$, then it would contribute to a cumulatively considerable impact for those pollutants. If the proposed Project exceeds the regional threshold for NOx or VOC (which are precursors to ozone), then it follows that the proposed Project would result in a cumulatively considerable contribution and thus result in a significant cumulative impact for ozone.

Regional emissions include those generated from all on-site and off-site activities. Regional significance thresholds have been established by the SJVAPCD because emissions from projects in the Air Basin can potentially contribute to the existing emission burden and possibly affect the attainment and maintenance of ambient air quality standards. Projects within the Air Basin with regional emissions that exceed any of the thresholds presented previously are considered to have a significant regional air quality impact.

CONSTRUCTION EMISSIONS

Emissions from construction activities represent temporary impacts that are typically short in duration, depending on the size, phasing, and type of project. Construction-related activities would result in Project-generated emissions from site preparation, grading, paving, building construction, and architectural coatings. CalEEMod[™] (v.2022.1) was used to estimate construction emissions for the proposed Project. Table 3.3-9, below, provides the construction criteria pollutant emissions and thresholds associated with implementation of the proposed Project. It should be noted that the SJVAPCD recommends the same criteria pollutant thresholds for both construction and operational emissions, as provided within the SJVAPCD Guidance for Assessing and Mitigating Air Quality Impacts (2015).

TABLE 3.3-9: CONSTRUCTION PROJECT GENERATED EMISSIONS (TONS PER YEAR)

POLLUTANT	СО	NOx	ROG	SOx	PM ₁₀	PM _{2.5}
THRESHOLD	100	10	10	27	15	15
YEAR 2024	6.84	1.17	0.16	0.01	0.56	0.20
YEAR 2025	17.88	5.40	0.96	0.04	1.99	0.66
YEAR 2026	5.76	2.55	0.40	0.02	0.92	0.26
MAXIMUM EMISSIONS	17.88	5.40	0.96	0.04	1.99	0.66
EXCEEDS THRESHOLD?	N	N	N	N	N	N

SOURCES: CALEEMOD (v.2022.1)

Additionally, the SJVAPCD has developed daily mass emissions screening criteria for ROG, NO_x , CO, SO_x , PM_{10} , and $PM_{2.5}$ to determine whether project emissions would result in a violation of an AAQS. Because the NAAQS and CAAQS are concentration-based standards, Project emissions were evaluated using the SJVAPCD mass emissions screening approach, which provides a preliminary assessment to determine whether a project would contribute to a violation of an AAQS. The

screening is conducted by evaluating daily Project emissions against a 100 pound per day threshold for each criteria air pollutant. The following table (Table 3.3-10) provides the proposed Project's construction emissions in pounds per day in comparison to these screening thresholds.

TABLE 3.3-10: CONSTRUCTION PROJECT GENERATED EMISSIONS (POUNDS PER DAY)

POLLUTANT	СО	NOx	ROG	SOx	PM ₁₀	PM _{2.5}
THRESHOLD (POUNDS/DAY)	100	100	100	100	100	100
YEAR 2024	94.8	11.6	1.03	0.07	0.27	0.25
YEAR 2025	90.2	23.68	2.93	0.14	0.68	0.65
YEAR 2026	33.3	12.43	1.27	0.05	0.28	0.26
MAXIMUM EMISSIONS	94.8	23.68	2.93	0.14	0.68	0.65
Exceeds Threshold?	N	N	N	N	N	N

SOURCES: CALEEMOD (V.2022.1)

NOTE: EMISSIONS ONLY INCLUDE THOSE EMISSIONS THAT ARE CONSIDERED "ON-SITE", PER SJVAPCD GUIDANCE.

If the proposed Project's emissions exceed the SJVAPCD's threshold of significance for construction-generated emissions, the proposed Project would have a significant impact on air quality. As shown in Table 3.3-9, the proposed Project would not exceed the SJVAPCD thresholds of significance for construction criteria pollutants. As shown in Table 3.3-10, the proposed Project would also not exceed the daily mass screening criteria thresholds during Project construction. Therefore, the Project's construction-related criteria pollutant emissions would be considered to have a *less than significant* impact.

OPERATIONAL EMISSIONS

The SJVAPCD is tasked with implementing programs and regulations required by the FCAA and the CCAA. In that capacity, the SJVAPCD has prepared plans to attain Federal and State ambient air quality standards. To achieve attainment with the standards, the SJVAPCD has established thresholds of significance for criteria pollutant emissions in its *Guidance for Assessing and Mitigating Air Quality Impacts* (2015). Projects with emissions below the thresholds of significance for criteria pollutants would be determined to "Not conflict or obstruct implementation of the District's air quality plan," and also to not have a cumulatively considerable net increase of a criteria pollutant for which the project region is in non-attainment. If the proposed Project's emissions exceed the SJVAPCD's threshold of significance for operational-generated emissions, the proposed Project will have a significant impact on air quality and all feasible mitigation measures must be implemented to reduce emissions.

Mobile source emissions will be generated by the Project due to the vehicle travel expected to occur to and from the Project site. According to the Traffic Analysis (Kimley Horn) (as provided in Appendix F of the Draft EIR), the proposed Project is anticipated to generate approximately 2,576 passenger vehicle trips and 1,224 heavy-duty truck trips per day. It should also be noted that, as described previously, this Recirculated Draft EIR employs models of emissions that have been rerun assuming that the average trip length for all project truck trips is 29 miles. This reflects the average truck trip length within the San Joaquin County transportation model. The County model is a three-county

model covering San Joaquin, Stanislaus and Merced Counties, all of which are within the San Joaquin Valley Air Pollution Control District boundaries.

CalEEModTM (v.2022.1) was used to model operational emissions of the proposed Project. Table 3.3-11 and Table 3.3-12 show proposed Project emissions as provided by CalEEMod ('without Project sustainability features'), in tons per year and pounds per day, respectively. Table 3.3-11 includes the individual Project buildings' emissions separately, in addition to the total Project emissions, for the sake of additional disclosure. As shown in Table 3.3-11 below, total Project operational emissions would exceed the SJVACPD thresholds of significance for NOx, under the 'without Project sustainability features' scenario, in terms of tons per day (primarily due to operation of Building 2).

TABLE 3.3-11: OPERATIONAL PROJECT GENERATED EMISSIONS (TONS PER YEAR) — WITHOUT PROJECT SUSTAINABILITY FEATURES

POLLUTANT	СО	NOx	ROG	SOx	PM ₁₀	PM _{2.5}
THRESHOLD	100	10	10	27	15	15
EMISSIONS – BUILDING 1 ONLY	12.4	7.30	2.45	0.07	3.67	1.04
EMISSIONS – BUILDING 2 ONLY	27.5	16.1	5.32	0.2	8.13	2.30
EMISSIONS – TOTAL PROJECT ¹	39.9	23.4	7.69	0.23	11.8	3.33
Exceeds Threshold?	N	Υ	N	N	N	N

SOURCES: CALEEMOD (v.2022.1)

NOTE: ¹The sum of individual buildings' emissions may not exactly equal the total Project emissions due to rounding, as well as due to a conservative overcounting of the total Project asphalt areas for each individual Project building within the 'individual building' Scenarios.

The SJVAPCD has developed daily mass emissions screening criteria for ROG, NO_X, CO, SO_X, PM₁₀, and PM_{2.5} to determine whether project emissions would result in a violation of an AAQS. Because the NAAQS and CAAQS are concentration-based standards, Project emissions were evaluated using the SJVAPCD mass emissions screening approach, which provides a preliminary assessment to determine whether a project would contribute to a violation of an AAQS. The screening is conducted by evaluating daily Project emissions against a 100 pound per day threshold for each criteria air pollutant. The following table (Table 3.3-12) provides the proposed Project's 'without Project sustainability features' operational emissions in pounds per day in comparison to these screening thresholds. As shown in Table 3.3-12, under the 'without Project sustainability features' scenario, the proposed Project's operational emissions would not exceed any of the daily mass screening criteria thresholds.

TABLE 3.3-12: OPERATIONAL PROJECT GENERATED EMISSIONS (POUNDS PER DAY) - WITHOUT PROJECT SUSTAINABILITY FEATURES

POLLUTANT	СО	NOx	ROG	SOx	PM ₁₀	PM _{2.5}
THRESHOLD (POUNDS/DAY)	100	100	100	100	100	100
EMISSIONS – TOTAL PROJECT	88.9	10.2	34.7	0.1	3.8	1.2
Exceeds Threshold?	N	N	N	N	N	N

SOURCES: CALEEMOD (v.2022.1)

NOTE: THE SUM OF INDIVIDUAL BUILDINGS' EMISSIONS MAY NOT EXACTLY EQUAL THE TOTAL PROJECT EMISSIONS DUE TO ROUNDING, AS WELL AS DUE TO A CONSERVATIVE OVERCOUNTING OF THE TOTAL PROJECT ASPHALT AREAS FOR EACH INDIVIDUAL PROJECT BUILDING WITHIN THE 'INDIVIDUAL BUILDING' SCENARIOS.

Note: Emissions only include those emissions that are considered "On-site", per SJVAPCD guidance. This excludes "Mobile" emissions, except for approximately 5.2% of Mobile Emissions that are estimated to be on-site, using a conservative estimate of the on-site mobile travel (1.110701 miles) divided by the average vehicle trip length modeled for the Project of 21.37224776 miles.

Proposed Project operational emissions 'inclusive of quantified Project Sustainability features' are shown in Table 3.3-13 and Table 3.3-14, based on implementation of SJVAPCD Rule 9510. While compliance with SJVAPCD Rule 9510 is regulatorily required, the rule itself is an indirect source rule designed to achieve emission reductions from development projects. Thus, it is included here to represent the SJVAPCD regulatory requirement to mitigate the operational emissions. The proposed Project would also be required to implement Mitigation Measure 3.3-1, as provided under Impact 3.3-1. However, due to the difficulty in modeling the emissions (i.e., NOx emissions) reductions that would occur due to implementation of Mitigation Measure 3.3-1, the emissions reductions associated with Mitigation Measure 3.3-1 were not modeled. Thus, Table 3.3-13 and Table 3.3-14 provide a conservative estimate of the operational emissions results for the proposed Project, with the quantified Project sustainability features accounted for.

Table 3.3-13: Operational Project Generated Emissions (tons per year) — Inclusive of Quantified Project Sustainability Features

POLLUTANT	СО	NOx	ROG	SOx	PM ₁₀	PM _{2.5}
THRESHOLD	100	10	10	27	15	15
EMISSIONS	39.9	15.6	7.69	0.23	11.8	3.33
Exceeds Threshold?	N	Υ	N	N	N	N

SOURCES: CALEEMOD (v.2022.1)

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¹² The NOx emissions were adjusted to reflect the 33.3% reduction required, per compliance with Air District Rule 9510.

TABLE 3.3-14: OPERATIONAL PROJECT GENERATED EMISSIONS (POUNDS PER DAY) – INCLUSIVE OF QUANTIFIED PROJECT SUSTAINABILITY FEATURES

POLLUTANT	СО	NOx	ROG	SOx	PM_{10}	PM _{2.5}
THRESHOLD	100	100	100	100	100	100
EMISSIONS	88.9	6.8	34.7	0.1	3.8	1.2
EXCEEDS THRESHOLD?	N	N	N	N	N	N

Sources: CalEEMod (v.2022.1)

NOTE: THE SUM OF INDIVIDUAL BUILDINGS' EMISSIONS MAY NOT EXACTLY EQUAL THE TOTAL PROJECT EMISSIONS DUE TO ROUNDING, AS WELL AS DUE TO A CONSERVATIVE OVERCOUNTING OF THE TOTAL PROJECT ASPHALT AREAS FOR EACH INDIVIDUAL PROJECT BUILDING WITHIN THE 'INDIVIDUAL BUILDING' SCENARIOS.

Note: Emissions only include those emissions that are considered "On-site", per SJVAPCD guidance. This excludes "Mobile" emissions, except for approximately 5.2% of Mobile Emissions that are estimated to be on-site, using a conservative estimate of the on-site mobile travel (1.110701 miles) divided by the average vehicle length for the Project of 21.37224776 miles.

The emission estimates provided in Table 3.3-13 and Table 3.3-14 demonstrate a reasonable worst-case scenario for Project operation. Because the operational emissions shown therein would exceed the SJVAPCD's significance thresholds for NOx, this impact would remain *significant and unavoidable*.

REGULATORY COMPLIANCE

In accordance with SJVAPCD Rule 9510, an Air Impact Assessment (AIA) shall be prepared based on the applicability and exemption criteria of Rule 9510.¹³ The rule includes general mitigation requirements for construction and/or operational emissions. Per the general mitigation requirements of Rule 9510, the Project shall reduce the project's operational baseline NOx emissions by 33.3% over a period of ten years as quantified in the approved AIA. The project shall pay any offsite fees in full by the invoice due date or prior to generating the emissions associated with the Project or any phase thereof, whichever occurs first.

Separately, prior to the issuance of a Grading Permit for each phase of the Project, the Project Proponent shall prepare and submit a Dust Control Plan that meets all of the applicable requirements of APCD Rule 8021, Section 6.3. Additionally, the Project would be required to implement dust control measures that include application of water or chemical dust suppressants to unpaved roads and graded areas, covering or stabilization of transported bulk materials, prevention of carryout or trackout of soil materials to public roads, limiting the area subject to soil disturbance, construction of wind barriers, access restrictions to inactive sites, as required by the applicable rules. The Project would also be required to, during all construction activities, implement the dust control practices identified in Tables 6-2 and 6-3 of the GAMAQI (2002).

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¹³ Available at: https://www.valleyair.org/rules/currntrules/r9510-a.pdf. Accessed: September 2023.

CONCLUSION

Criteria pollutant emissions generated by the proposed Project during operation would exceed applicable thresholds after compliance with all rules and regulations, even after implementation of Mitigation Measure 3.3-1. No other feasible mitigation measure exists to reduce the applicable operational criteria pollutant impacts to below the applicable SJVAPCD thresholds. Therefore, this impact would be *significant and unavoidable*.

MITIGATION MEASURE(S)

Implement Mitigation Measure 3.3-1.

Impact 3.3-3: The proposed Project would not expose sensitive receptors to substantial pollutant concentrations. (Less than Significant)

TOXIC AIR CONTAMINANTS

A TAC is defined as an air pollutant that may cause or contribute to an increase in mortality or in serious illness, or that may pose a hazard to human health. Those who are sensitive to air pollution include children, the elderly, and persons with preexisting respiratory or cardiovascular illness. The SJVAPCD considers a sensitive receptor to be a location that houses or attracts children, the elderly, people with illnesses, or others who are especially sensitive to the effects of air pollutants. Examples of sensitive receptors include hospitals, residences, convalescent facilities, and schools. There are no traditional sensitive receptors such as residences, convalescent facilities, or schools that are proposed as part of the proposed Project. The closest residential receptors to the Project are located as follows:

- A cluster of farmhouses/residences is located along the western portion of the Project site, adjacent to the Project site¹⁴;
- A cluster of residences is located approximately 2,000 feet to the southwest of the Project site;
- Additional scattered residences are located approximately 2,200 to 3,000 feet to the south and southwest of the Project site;
- Residences are located approximately 900 feet to the southeast of the Project site; and
- An additional residence is located approximately 2,650 feet to the southeast of the Project site.

Additionally, workplace receptors are considered to be located throughout the entirety of the Project site, as required to be analyzed by the SJVAPCD.

Heavy-duty trucks are a common source of Diesel Particulate Matter (DPM), in contrast to passenger vehicles (such as light-duty cars and trucks). The inhalation of DPM generates cancer and non-cancer

¹⁴ This receptor represents the maximally exposed residential receptor, at 25730 Hansen Road. See Appendix A.3 of this Recirculated Draft EIR for further detail.

health risks, especially where concentrations are elevated for long periods of time and for younger sensitive receptors. The SJVAPCD's GAMAQI (SJVAPCD, 2015) includes procedures for evaluating hazardous air pollutants. Based on the guidance provided in the GAMAQI, an air toxics health impact analysis has been prepared for the proposed Project to analyze the Project's anticipated impacts from diesel exhaust emitted by heavy-duty trucks operated as part of the Project.

An air toxics health risk assessment was conducted utilizing Lakes Environmental Software AERMOD and the CARB's Hotspots Analysis Reporting Program Version 2 (HARP 2) Air Dispersion, Modelling, and Risk Tool (ADMRT) for the DPM associated with the heavy-duty trucks. Emissions associated with truck idling and truck on-site travel were calculated. The maximum residential (70-year exposure) cancer, workplace (40-year exposure) cancer, chronic (non-cancer), and acute (non-cancer) risks were assessed and compared to SVJAPCD thresholds. See Appendix A.3 of this Recirculated Draft EIR for full model inputs. Table 3.3-15 summarizes the results of the analysis.

Separately, Project construction would generate DPM emissions from the use of off-road diesel equipment required. The amount to which the receptors are exposed (a function of concentration and duration of exposure) is the primary factor used to determine health risk (i.e., potential exposure to TAC emission levels that exceed applicable standards).

The use of diesel-powered construction equipment would be temporary and episodic. The duration of exposure would be short and exhaust from construction equipment would dissipate rapidly. Current models and methodologies for conducting health risk assessments are associated with longer-term exposure periods of 9, 30, and 70 years, which do not correlate well with the temporary and highly variable nature of construction activities. Given that construction is anticipated to occur over the course of approximately two years, construction health risks associated with construction of this timeframe were evaluated. See Appendix A.3 for further detail.

The California Office of Environmental Health Hazard Assessment has not identified short-term health effects from DPM. Construction activities would be subject to and would comply with California regulations limiting the idling of heavy-duty construction equipment to no more than five minutes to further reduce nearby sensitive receptors' exposure to temporary and variable DPM emissions.

The maximum residential cancer risk would occur at a residence located on Hansen Road, to the west of the Project site (at 25730 Hansen Road), at a total of approximately 1.66 per million. The maximum workplace cancer risk would occur at the northern entrance to the Project site, along Schulte Road, with a maximum risk of up to 0.81 per million (at the location of maximum workplace cancer risk). These risks are well below the applicable SJVAPCD thresholds. As shown in Table 3.3-15, which identifies the combined health risks associated with both construction and operational, the proposed Project, in and of itself, would not result in a significant increased exposure of receptors to localized concentrations of TACs. Risk of residential cancer risk, workplace cancer risk, and chronic and acute non-cancer risks are below the applicable SJVAPCD TAC thresholds. Further detail is provided in the Health Risk Assessment provided in Appendix A.3. Therefore, implementation of the proposed Project would cause a *less than significant* impact relative to this topic since it is under the threshold established by the SJVAPCD.

TABLE 3.3-15: SUMMARY OF MAXIMUM HEALTH RISKS

RISK METRIC	MAXIMUM RISK	Significance Threshold	Is Threshold Exceeded?					
OPERATIONAL								
Residential Cancer Risk (70-year exposure)	0.72 per million 20 t		No					
Workplace Cancer Risk (40-year exposure)	0.74 per million	20 per million	No					
Chronic (non-cancer)	<0.01	Hazard Index ≥1	No					
Acute (non-cancer) 1	0	Hazard Index ≥1	No					
	Construction							
Residential Cancer Risk (2-year exposure)	0.94 per million	20 per million	No					
Workplace Cancer Risk (2-year exposure)	0.07 per million	20 per million	No					
Chronic (non-cancer)	<0.01	Hazard Index ≥1	No					
Acute (non-cancer) 1	0	Hazard Index ≥1	No					
	TOTAL							
Residential Cancer Risk (Aggregrate)	1.66 per million	20 per million	No					
Workplace Cancer Risk (Aggregrate)	0.81 per million	20 per million	No					
Chronic (non-cancer)	<0.01	Hazard Index ≥1 No						
Acute (non-cancer) ¹ 0		Hazard Index ≥1 No						

SOURCES: AERMOD 11.2.0 (LAKES ENVIRONMENTAL SOFTWARE, 2023); AND HARP-2 AIR DISPERSION AND RISK TOOL (VERSION 22118).

VALLEY FEVER

Valley Fever, or coccidioidomycosis, is an infection caused by inhalation of the spores of the fungus, Coccidioides immitis (C. immitis). The spores live in soil and can live for an extended time in harsh environmental conditions. Activities or conditions that increase the amount of fugitive dust contribute to greater exposure, and they include dust storms, grading, and recreational off-road activities.

The San Joaquin Valley is considered an endemic area for Valley Fever. By geographic region, hospitalizations for Valley Fever in the San Joaquin Valley increased from 230 (6.9 per 100,000 population) in 2000 to 701 (17.7 per 100,000 population) in 2007. Within the region, Kern County reported the highest hospitalization rates, increasing from 121 (18.2 per 100,000 population) in 2000 to 285 (34.9 per 100,000 population) in 2007, and peaking in 2005 at 353 hospitalizations (45.8 per 100,000 population). The Centers for Disease Control and Prevention indicates that 752 of the

8,657 persons (8.7 percent) hospitalized in California between 2000 and 2007 for Valley Fever died. 15

The distribution of C. immitis within endemic areas is not uniform and C. immitis growth sites are commonly small (a few tens of meters) and widely scattered. Known sites appear to have some ecological factors in common suggesting that certain physical, chemical, and biological conditions are more favorable for C. immitis growth. Avoidance, when feasible, of sites favorable for the occurrence of C. immitis is a prudent risk management strategy. Listed below are ecologic factors and sites favorable for the occurrence of C. immitis:¹⁶

- 1. Rodent burrows (often a favorable site for C. immitis, perhaps because temperatures are more moderate and humidity higher than on the ground surface).
- 2. Prehistoric Indian campsites near fire pits.
- 3. Areas with sparse vegetation and alkaline soils.
- 4. Areas with high salinity soils.
- 5. Areas adjacent to arroyos (where residual moisture may be available).
- 6. Packrat middens.
- 7. Upper 30 centimeters of the soil horizon, especially in virgin undisturbed soils.
- 8. Sandy well aerated soil with relatively high-water holding capacities.

Sites within endemic areas less favorable for the occurrence of C. immitis include:

- 1. Cultivated fields
- 2. Heavily vegetated areas (e.g., grassy lawns)
- 3. Higher elevations (above 7,000 feet)
- 4. Areas where commercial fertilizers (e.g., ammonium sulfate) have been applied
- 5. Areas that are continually wet
- 6. Paved (asphalt or concrete) or oiled areas
- 7. Soils containing abundant microorganisms
- 8. Heavily urbanized areas where there is little undisturbed virgin soil

The Project site is relatively undeveloped and is surrounded by undeveloped, agricultural, industrial, and residential land uses that are semi-rural to urban in character. Because the majority of the Project site and the immediately surrounding vicinity consists of urbanized development or cultivated fields, the Project site is an area that would lead to a low probability of having C. immitis growth sites and exposure from disturbed soil.

Construction activities would generate fugitive dust that could contain C. immitis spores. The

¹⁵ The Centers for Disease Control and Prevent (CDC). 2009. Increase in Coccidioidomycosis – California, 2000-2007. February 13. Website: https://www.cdc.gov/mmwr/preview/mmwrhtml/mm5805a1.htm. Accessed June 8, 2022.

¹⁶ United States Geological Survey (USGS). 2000. Operational Guidelines (Version 1.0) for Geological Fieldwork in Areas Endemic for Coccidioidomycosis (Valley Fever). Website: http://citeseary.ict.psu.edu/viewdoc/download?doi=10.1.1.486.1536&rep=ren1&type=ndf_Accessed

http://citeseerx.ist.psu.edu/viewdoc/download?doi=10.1.1.486.1526&rep=rep1&type=pdf. Accessed June 8, 2022.

proposed Project would be required to minimize the generation of fugitive dust during construction activities by complying with the SJVAPCD's District Rule 8021. District Rule 8021 requires limitation of fugitive dust emissions from construction, demolition, excavation, extraction, and other earthmoving activities, by implementing control measures such as pre-watering the Project site, phasing construction work to reduce the amount of disturbed surface at any one time, and applying water or other suppressants to unpaved haul/access roads and unpaved vehicle/equipment traffic areas. Therefore, this regulation would ensure that Valley Fever impacts during construction are less than significant.

During operations, dust emissions are anticipated to be negligible, because the Project site would be occupied by buildings, pavement, and landscaped areas after construction is complete. Therefore, Project operations would not occur on undeveloped sites and dust emissions typically associated with activity on unpaved surfaces would be negligible. This condition would preclude the possibility of the proposed Project from generating significant fugitive dust that may contribute to Valley Fever exposure. Impacts would be *less than significant*.

ASBESTOS AND LEAD-BASED PAINT EXPOSURE

According to a map of areas where naturally occurring asbestos in California is likely to occur, there are no such areas in the vicinity of the Project site.¹⁷ Therefore, development of the proposed Project is not anticipated to expose receptors to naturally occurring asbestos. This impact would be *less than significant*.

Impact 3.3-4: The proposed Project would not cause exposure to other emissions (such as those leading to odors) adversely affecting a substantial number of people. (Less than Significant)

The following text addresses odors. Other emissions (including criteria pollutants and TACs) are addressed in Impacts 3.3-1 through 3.3-4.

While offensive odors rarely cause any physical harm, they can be very unpleasant, leading to considerable distress among the public and often generating citizen complaints to local governments and the SJVAPCD. The general nuisance rule (Health and Safety Code §41700) is the basis for the threshold.

Examples of facilities that are known producers of odors include: Wastewater Treatment Facilities, Chemical Manufacturing, Sanitary Landfill, Fiberglass Manufacturing, Transfer Station, Painting/Coating Operations (e.g. auto body shops), Composting Facility, Food Processing Facility, Petroleum Refinery, Feed Lot/Dairy, Asphalt Batch Plant, and Rendering Plant.

¹⁷ United States Geological Survey (USGS). 2011. Reported Historic Asbestos Mines, Historic Asbestos Prospects, and Other Natural Occurrences of Asbestos in California. Website: https://pubs.usgs.gov/of/2011/1188/. Accessed June 8, 2022.

3.3 AIR QUALITY

If a project proposes to locate receptors and known odor sources in proximity to each other, further analysis may be warranted. However, if a project would not locate receptors and known odor sources in proximity to each other, then further analysis is not warranted. The proposed Project does not include new industrial uses that are not already present in the vicinity of the Project site. There is a residence located near to the Project site to the west; however, it is proposed to be removed. Moreover, since the proposed Project would not be a source of offensive odors, sensitive receptors located near the Project site would not be exposed by the Project to significant odors that would affect a substantial number of people. Air district Rule 402 prohibits any mobile or stationary source generating an objectionable odor, with the exception of odors emanating from certain agricultural operations. The California Health and Safety Code §41700 and Air District Rule 402 prohibit emissions of air contaminants from any source that cause nuisance or annoyance to a considerable number of people or that present a threat to public health or cause property damage. Compliance with these rules would preclude land uses proposed under the proposed Project from emitting objectionable odors.

CONCLUSION

The proposed Project does not propose uses that would create new odors that would adversely affect a substantial number of people. The proposed Project also does not introduce any new sensitive receptors. Therefore, operation of the proposed Project would not result in significant objectionable odors. Impacts associated with exposure to odors would be *less than significant*.

This section discusses regional greenhouse gas (GHG) emissions, climate change, and energy impacts that could result from Project implementation. The analysis contained in this section is intended to be at a Project level, and covers impacts associated with the conversion of the entire site to urban uses. This section provides a background discussion of greenhouse gases and climate change linkages and effects of global climate change. This section is organized with an existing setting, regulatory setting, approach/methodology, and impact analysis. The analysis and discussion of the GHG, climate change, and energy conservation impacts in this section focuses on the proposed Project's consistency with local, regional, and statewide climate change planning efforts and discusses the context of these planning efforts as they relate to the proposed Project. Disclosure and discussion of the Project's estimated energy usage and greenhouse gas emissions are provided.

One comment from the San Joaquin Valley Air Pollution Control District (SJVAPCD) was received during the public review period or scoping meeting for the Notice of Preparation regarding this topic (October 29, 2021). This comment is addressed within this section. The full comment is included in Appendix A of the originally circulated Draft EIR.

3.7.1 Environmental Setting

GREENHOUSE GASES AND CLIMATE CHANGE LINKAGES

Various gases in the Earth's atmosphere, classified as atmospheric GHGs, play a critical role in determining the Earth's surface temperature. Solar radiation enters Earth's atmosphere from space, and a portion of the radiation is absorbed by the Earth's surface. The Earth emits this radiation back toward space, but the properties of the radiation change from high-frequency solar radiation to lower-frequency infrared radiation.

Naturally occurring GHGs include water vapor (H_2O), carbon dioxide (CO_2), methane (CH_4), nitrous oxide (N_2O), and ozone (O_3). Several classes of halogenated substances that contain fluorine, chlorine, or bromine are also GHGs, but they are, for the most part, solely a product of industrial activities. Although the direct GHGs CO_2 , CH_4 , and N_2O occur naturally in the atmosphere, human activities have changed their atmospheric concentrations. From the pre-industrial era (i.e., ending about 1750) to 2019, concentrations of these three GHGs have increased globally by 47, 156, and 23 percent, respectively (IPCC, 2023).

GHGs, which are transparent to solar radiation, are effective in absorbing infrared radiation. As a result, this radiation that otherwise would have escaped back into space is now retained, resulting in a warming of the atmosphere. This phenomenon is known as the greenhouse effect. Among the prominent GHGs contributing to the greenhouse effect are carbon dioxide (CO_2), methane (CH_4), ozone (O_3), water vapor, nitrous oxide (O_2), and chlorofluorocarbons (O_3).

Emissions of GHGs contributing to global climate change are attributable in large part to human activities associated with the industrial/manufacturing, utility, transportation, residential, and

agricultural sectors. In California, the transportation sector is the largest emitter of GHGs, followed by the industrial and electricity generation sectors (California Energy Commission, 2023).

As the name implies, global climate change is a global problem. GHGs are global pollutants, unlike criteria air pollutants and toxic air contaminants, which are pollutants of regional and local concern, respectively. California produced 369 million gross metric tons of carbon dioxide equivalents (MMTCO₂e) in 2022 (California Air Resources Board, 2023).

Carbon dioxide equivalents are a measurement used to account for the fact that different GHGs have different potential to retain infrared radiation in the atmosphere and contribute to the greenhouse effect. This potential, known as the global warming potential of a GHG, is also dependent on the lifetime, or persistence, of the gas molecule in the atmosphere. Expressing GHG emissions in carbon dioxide equivalents takes the contribution of all GHG emissions to the greenhouse effect and converts them to a single unit equivalent to the effect that would occur if only CO_2 were being emitted.

Consumption of fossil fuels in the transportation sector was the single largest source of California's GHG emissions in 2022, accounting for 38% of total GHG emissions in the State. This category was followed by the industrial sector (23%), the electricity generation sector (including both in-state and out of-state sources) (16%), the agriculture and forestry sector (9%), the residential energy consumption sector (8%), and the commercial energy consumption sector (6%) (California Air Resources Board, 2023).

EFFECTS OF GLOBAL CLIMATE CHANGE

The effects of increasing global temperature are far-reaching and extremely difficult to quantify. The scientific community continues to study the effects of global climate change. In general, increases in the ambient global temperature as a result of increased GHGs are anticipated to result in rising sea levels, which could threaten coastal areas through accelerated coastal erosion, threats to levees and inland water systems and disruption to coastal wetlands and habitat.

If the temperature of the ocean warms, it is anticipated that the winter snow season would be shortened. Snowpack in the Sierra Nevada provides both water supply (runoff) and storage (within the snowpack before melting), which is a major source of supply for the State. The snowpack portion of the supply could potentially decline by 50% to 75% by the end of the 21st century (National Resources Defense Council, 2014). This phenomenon could lead to significant challenges securing an adequate water supply for a growing state population. Further, the increased ocean temperature could result in increased moisture flux into the State; however, since this would likely increasingly come in the form of rain rather than snow in the high elevations, increased precipitation could lead to increased potential and severity of flood events, placing more pressure on California's levee/flood control system.

Sea level has risen approximately seven inches during the last century and it is predicted to rise an additional 22 to 35 inches by 2100, depending on the future GHG emissions levels (California Environmental Protection Agency, 2010). If this occurs, resultant effects could include increased coastal flooding, saltwater intrusion and disruption of wetlands. As the existing climate throughout

California changes over time, mass migration of species, or failure of species to migrate in time to adapt to the perturbations in climate, could also result. According to the Indicators of Climate Change in California report (OEHHA, 2022), the impacts of global warming in California are anticipated to include, but are not limited to, those discussed below.

Public Health

Higher temperatures are expected to increase the frequency, duration, and intensity of conditions conducive to air pollution formation. For example, days with weather conducive to ozone formation are projected to increase from 25% to 35% under the lower warming range and to 75% to 85% under the medium warming range. In addition, if global background ozone levels increase as predicted in some scenarios, it may become impossible to meet local air quality standards. Air quality could be further compromised by increases in wildfires, which emit fine particulate matter that can travel long distances depending on wind conditions. The Climate Scenarios report indicates that large wildfires could become up to 55% more frequent if GHG emissions are not significantly reduced.

In addition, under the higher warming scenario, there could be up to 100 more days per year with temperatures above 90°F in Los Angeles and 95°F in Sacramento by 2100. This is a large increase over historical patterns and approximately twice the increase projected if temperatures remain within or below the lower warming range. Rising temperatures will increase the risk of death from dehydration, heat stroke/exhaustion, heart attack, stroke, and respiratory distress caused by extreme heat.

Water Resources

A vast network of man-made reservoirs and aqueducts capture and transport water throughout the State from northern California rivers and the Colorado River. The current distribution system relies on Sierra Nevada snow pack to supply water during the dry spring and summer months. Rising temperatures, potentially compounded by decreases in precipitation, could severely reduce spring snow pack, increasing the risk of summer water shortages.

The State's water supplies are also at risk from rising sea levels. An influx of saltwater would degrade California's estuaries, wetlands, and groundwater aquifers. Saltwater intrusion caused by rising sea levels is a major threat to the quality and reliability of water within the southern edge of the Sacramento/San Joaquin River Delta, a major State fresh water supply. Global warming is also projected to seriously affect agricultural areas, with California farmers projected to lose as much as 25% of the water supply they need; decrease the potential for hydropower production within the State (although the effects on hydropower are uncertain); and seriously harm winter tourism. Under the lower warming range, the snow dependent winter recreational season at lower elevations could be reduced by as much as one month. If temperatures reach the higher warming range and precipitation declines, there might be many years with insufficient snow for skiing, snowboarding, and other snow dependent recreational activities.

If GHG emissions continue unabated, more precipitation will fall as rain instead of snow, and the snow that does fall will melt earlier, reducing the Sierra Nevada spring snow pack by as much as 70% to 90%. Under the lower warming scenario, snow pack losses are expected to be only half as large

as those expected if temperatures were to rise to the higher warming range. How much snow pack will be lost depends in part on future precipitation patterns, the projections for which remain uncertain. However, even under the wetter climate projections, the loss of snow pack would pose challenges to water managers, hamper hydropower generation, and nearly eliminate all skiing and other snow-related recreational activities.

Agriculture

Increased GHG emissions are expected to cause widespread changes to the agriculture industry reducing the quantity and quality of agricultural products statewide. Although higher carbon dioxide levels can stimulate plant production and increase plant water-use efficiency, California's farmers will face greater water demand for crops and a less reliable water supply as temperatures rise.

Plant growth tends to be slow at low temperatures, increasing with rising temperatures up to a threshold. However, faster growth can result in less-than-optimal development for many crops, so rising temperatures are likely to worsen the quantity and quality of yield for a number of California's agricultural products. Products likely to be most affected include wine grapes, fruits and nuts, and milk.

Crop growth and development will be affected, as will the intensity and frequency of pest and disease outbreaks. Rising temperatures will likely aggravate ozone pollution, which makes plants more susceptible to disease and pests and interferes with plant growth.

In addition, continued global warming will likely shift the ranges of existing invasive plants and weeds and alter competition patterns with native plants. Range expansion is expected in many species while range contractions are less likely in rapidly evolving species with significant populations already established. Should range contractions occur, it is likely that new or different weed species will fill the emerging gaps. Continued global warming is also likely to alter the abundance and types of many pests, lengthen pests' breeding season, and increase pathogen growth rates.

Forests and Landscapes

Global warming is expected to alter the distribution and character of natural vegetation thereby resulting in a possible increased risk of large wildfires. If temperatures rise into the medium warming range, the risk of large wildfires in California could increase by as much as 55%, which is almost twice the increase expected if temperatures stay in the lower warming range. However, since wildfire risk is determined by a combination of factors, including precipitation, winds, temperature, and landscape and vegetation conditions, future risks will not be uniform throughout the State. For example, if precipitation increases as temperatures rise, wildfires in southern California are expected to increase by approximately 30% toward the end of the century. In contrast, precipitation decreases could increase wildfires in northern California by up to 90%.

Moreover, continued global warming will alter natural ecosystems and biological diversity within the State. For example, alpine and sub-alpine ecosystems are expected to decline by as much as 60%

to 80% by the end of the century as a result of increasing temperatures. The productivity of the State's forests is also expected to decrease as a result of global warming.

Rising Sea Levels

Rising sea levels, more intense coastal storms, and warmer water temperatures will increasingly threaten the State's coastal regions. Under the higher warming scenario, sea level is anticipated to rise 22 to 35 inches by 2100. Elevations of this magnitude would inundate coastal areas with saltwater, accelerate coastal erosion, threaten vital levees and inland water systems, and disrupt wetlands and natural habitats.

ENERGY CONSUMPTION

Energy in California is consumed from a wide variety of sources. Fossil fuels (including gasoline and diesel fuel, natural gas, and energy used to generate electricity) are the most widely used form of energy in the State. However, renewable sources of energy (such as solar and wind) are growing in proportion to California's overall energy mix. A large driver of renewable sources of energy in California is the State's current Renewable Portfolio Standard (RPS), which requires the State to derive at least 60 percent of electricity generated by 2030, and to achieve zero-carbon emissions by 2045 (as passed in September 2018, under Senate Bill 100). The 2021 SB 100 Joint Agency Report was published in 2021, which found that the long-term goals contained in SB 100 are technically achievable through multiple pathways, although achieving 100 clean electricity would increase the total annual electricity system cost by 6% relative to the cost under the state's Renewables Portfolio Standard requirement of having at least 60 percent clean electricity by the end of 2030. These estimates will change over time as markets change, new technologies are commercialized, and additional factors such as grid reliability are included in future analyses.

Overall, in 2019, California's per capita energy usage was ranked second-lowest in the nation (U.S. EIA, 2020b). California's per capita rate of energy usage has remained relatively constant since the 1970's. Many State regulations since the 1970s, including new building energy efficiency standards, vehicle fleet efficiency measures, as well as growing public awareness, have helped to keep per capita energy usage in the State in check.

The consumption of non-renewable energy (i.e., fossil fuels) associated with the operation of passenger, public transit, and commercial vehicles results in GHG emissions that contribute to global climate change. Alternative fuels such as natural gas, ethanol, and electricity (unless derived from solar, wind, nuclear, or other energy sources that do not produce carbon emissions) also result in GHG emissions and contribute to global climate change.

Electricity Consumption

California relies on a regional power system composed of a diverse mix of natural gas, renewable, hydroelectric, and a very small amount of nuclear generation resources. In 2020, nearly one-half of the electricity supply came from facilities outside of the State. Much of the power delivered to California from states in the Pacific Northwest was generated by wind. States in the Southwest delivered power generated at coal-fired power plants, at natural gas-fired power plants, and from

nuclear generating stations (U.S. EIA, 2022). In 2020, approximately 41 percent of California's utility-scale net electricity generation was fueled by natural gas. In addition, about 48 percent of the State's utility-scale net electricity generation came from renewable sources, such as solar, wind, geothermal, hydropower, and biomass. Nuclear energy powered an additional 11 percent. The amount of electricity generated from coal was effectively zero (U.S. EIA, 2022). The percentage of renewable resources as a proportion of California's overall energy portfolio is increasing over time, as directed the State's Renewable Portfolio Standard (RPS).

According to the California Energy Commission (CEC), total statewide electricity consumption increased from 166,979 gigawatt-hours (GWh) in 1980 to 228,038 GWh in 1990, which is an estimated annual growth rate of 3.66 percent. The statewide electricity consumption in 1997 was 246,225 GWh, reflecting an annual growth rate of 1.14 percent between 1990 and 1997 (U.S. EIA, 2023b). Statewide consumption was 274,985 GWh in 2010, an annual growth rate of 0.9 percent between 1997 and 2010. In 2021, electricity consumption in San Joaquin County was 5,608 GWh (California Energy Commission, 2023).

PG&E is a publicly traded utility company that, under contract with the California Public Utilities Commission (CPUC), generates, purchases, and distributes energy. PG&E's service area covers 70,000 square miles, roughly extending north to south from Eureka to Bakersfield and east to west from the Sierra Nevada to the Pacific Ocean. PG&E's electricity distribution system consists of 106,681 circuit miles of electric distribution lines and 18,466 circuit miles of interconnected transmission lines.

PG&E's electricity is generated from a combination of traditional sources, such as coal-fired plants, nuclear power plants, and hydroelectric dams, as well as newer sources of energy, such as wind turbines and photovoltaic plants, or "solar farms." "The grid," or bulk electric grid, is a network of high-voltage transmission lines that link power plants to the PG&E system. The distribution system, comprising lower-voltage secondary lines, is at the street and neighborhood level. It consists of overhead or underground distribution lines, transformers, and individual service "drops" that connect to individual customers.

In addition to its base plan, PG&E has three plan options, known as Solar Choice options and Green Saver, which give customers the option of purchasing energy from solar resources. The first Solar Choice option provides up to 50 percent of a customer's energy from solar resources, while the other option provides up to 100 percent of a customer's energy from solar resources, and the Green Saver option provides up to 90 percent of a customer's energy from solar resources.

Table 3.7-1 outlines PG&E's power mix in 2021, compared to the power mix for the state. The table identifies the renewable and non-renewable energy sources for PG&E. It should be noted that some GHG free sources are not considered renewable (e.g., nuclear is GHG free but not renewable).

PG&E OPTION: PG&E OPTION: PG&E OPTION: PG&E **ENERGY CALIFORNIA** 100% SOLAR **OPTION:** RESOURCES **BASE** 50% SOLAR POWER MIX Сноісе GREEN SAVER 2021 Eligible 93.9% 47.7% 70.9% 89.9% 33.6% Renewable Biomass and 4.2% 2.1% 0.0% 0.0% 2.3% waste Geothermal 5.2% 2.6% 0.0% 0.0% 4.8% Small 1.8% 0.9% 0.0% 0.0% 1.0% hydroelectric Solar 25.7% 59.8% 93.9% 89.9% 14.2% Wind 10.9% 5.5% 0.0% 0.0% 11.4% 0.0% Coal 0.0% 0.0% 0.0% 3.0% Large 0.0% 9.2% 4.0% 2.0% 0.0% Hydroelectric **Natural Gas** 8.9% 7.4% 0.0% 0.0% 37.9% Nuclear 39.3% 19.7% 0.0% 0.0% 9.3% Other 0.0% 0.0% 0.0% 0.0% 0.2% Unspecified 0.0% 0.0% 6.1% 10.1% 6.8% 2021. 2021 Source: PG&E. Power **CONTENT** LABEL. AVAILABLE:

TABLE 3.7-1. PG&E AND THE STATE OF CALIFORNIA POWER MIX IN 2021

HTTPS://www.energy.ca.gov/filebrowser/download/4653. Accessed: November 10, 2023.

In 2021, the latest year for which data is available, statewide consumption was 277,205 GWh (California Energy Commission, 2022). In 2020, electricity consumption in San Joaquin County was 5,737 GWh (California Energy Commission, 2021).

Oil

The primary energy source for the United States is oil, which is refined to produce fuels like gasoline, diesel, and jet fuel. Oil is a finite, nonrenewable energy source. World consumption of petroleum products has grown steadily in the last several decades. As of 2019, world consumption of oil had reached approximately 98 million barrels per day. The United States, with approximately five percent of the world's population, accounts for approximately 19 percent of world oil consumption, or approximately 18.6 million barrels per day (U.S. EIA, 2020c). The transportation sector relies heavily on oil. In California, petroleum-based fuels currently provide approximately 95 percent of the State's transportation energy needs.

Natural Gas/Propane

The State produces approximately 12 percent of its natural gas, while obtaining 22 percent from Canada and 65 percent from the Rockies and the Southwest (California Energy Commission, 2012).

A. ELECTRICITY FROM TRANSACTIONS THAT ARE NOT TRACEABLE TO SPECIFIC GENERATION SOURCES ARE CLASSIFIED AS UNSPECIFIED SOURCES OF POWER.

PG&E is the largest publicly-traded utility in California and provides natural gas for residential, industrial, and agency consumers within the San Joaquin County area. PG&E's natural gas (i.e., methane) delivery system includes 42,000 miles of natural gas distribution pipelines and 6,700 miles of transmission pipelines. PG&E's gas transmission system serves approximately 15 million energy customers in California. The system is operated under an inspection and monitoring program in real time on a 24-hour basis, with leak inspections, surveys, and patrols continuously taking place along the pipelines. Gas delivered by PG&E originates in gas fields in California, the Southwest, the Rocky Mountains, and Canada. Transmission pipelines send natural gas from the fields and storage facilities. The smaller distribution pipelines deliver gas to individual businesses or residences.

In As of March 2022, California produced 11.4 billion cubic feet of natural gas per month (U.S. EIA, 2022). PG&E is the largest publicly-owned utility in California and provides natural gas for residential, industrial, and agency consumers within the San Joaquin County area. In 2018, natural gas consumption in San Joaquin County was 259 million therms (California Energy Commission, 2020).

3.7.2 REGULATORY SETTING

FEDERAL

Clean Air Act

The Federal Clean Air Act (FCAA) was first signed into law in 1970. In 1977, and again in 1990, the law was substantially amended. The FCAA is the foundation for a national air pollution control effort, and it is composed of the following basic elements: National Ambient Air Quality Standards (NAAQS) for criteria air pollutants, hazardous air pollutant standards, State attainment plans, NAAQS motor vehicle emissions standards, stationary source emissions standards and permits, acid rain control measures, stratospheric ozone protection, and enforcement provisions.

The EPA is responsible for administering the FCAA. The FCAA requires the EPA to set NAAQS for several problem air pollutants based on human health and welfare criteria. Two types of NAAQS were established: primary standards, which protect public health, and secondary standards, which protect the public welfare from non-health-related adverse effects such as visibility reduction.

In 2007, in the court case of *Massachusetts et al. vs. the USEPA et al.* (549 U.S. 497), the U.S. Supreme Court found that GHGs are air pollutants covered by the federal Clean Air Act (42 USC Sections 7401-7671q). The Supreme Court held that the Administrator of the United States Environmental Protection Agency must determine whether or not emissions of GHGs from new motor vehicles cause or contribute to air pollution, which may reasonably be anticipated to endanger public health or welfare, or whether the science is too uncertain to make a reasoned decision. In making these decisions, the Administrator is required to follow the language of Section 202(a) of the Clean Air Act. On December 7, 2009, the Administrator signed two distinct findings regarding GHGs under Section 202(a) of the Clean Air Act:

• Endangerment Finding: The Administrator finds that the current and projected concentrations of the six key well-mixed GHGs (carbon dioxide, methane, nitrous oxide,

hydrofluorocarbons, perfluorocarbons, and sulfur hexafluoride) in the atmosphere threaten the public health and welfare of current and future generations.

Cause or Contribute Finding: The Administrator finds that the combined emissions of these
well-mixed GHGs from new motor vehicles and new motor vehicle engines contribute to the
GHG pollution, which threatens public health and welfare.

These findings do not themselves impose any requirements on industry or other entities. However, this action was a prerequisite for implementing GHG emission standards for vehicles. In collaboration with the National Highway Traffic Safety Administration (NHTSA) and CARB, the USEPA developed emission standards for light-duty vehicles (2012-2025 model years), and heavy-duty vehicles (2014-2027 model years).

Energy Policy and Conservation Act

The Energy Policy and Conservation Act of 1975 sought to ensure that all vehicles sold in the U.S. would meet certain fuel economy goals. Through this Act, Congress established the first fuel economy standards for on-road motor vehicles in the United States. Pursuant to the Act, the National Highway Traffic and Safety Administration, which is part of the U.S. Department of Transportation (USDOT), is responsible for establishing additional vehicle standards and for revising existing standards.

Since 1990, the fuel economy standard for new passenger cars has been 27.5 mpg. Since 1996, the fuel economy standard for new light trucks (gross vehicle weight of 8,500 pounds or less) has been 20.7 mpg. Heavy-duty vehicles (i.e., vehicles and trucks over 8,500 pounds gross vehicle weight) are not currently subject to fuel economy standards. Compliance with federal fuel economy standards is determined on the basis of each manufacturer's average fuel economy for the portion of its vehicles produced for sale in the U.S. The Corporate Average Fuel Economy (CAFE) program, which is administered by the EPA, was created to determine vehicle manufacturers' compliance with the fuel economy standards. The EPA calculates a CAFE value for each manufacturer based on city and highway fuel economy test results and vehicle sales. Based on the information generated under the CAFE program, the USDOT is authorized to assess penalties for noncompliance.

Federal Climate Change Policy

According to the U.S. EPA, "the United States government has established a comprehensive policy to address climate change" that includes slowing the growth of emissions; strengthening science, technology, and institutions; and enhancing international cooperation. To implement this policy, "the Federal government is using voluntary and incentive-based programs to reduce emissions and has established programs to promote climate technology and science." The U.S. EPA administers multiple programs that encourage voluntary GHG reductions, including "ENERGY STAR", "Climate Leaders", and Methane Voluntary Programs.

The following are actions taken at the federal level relating to GHG emissions.

Clean Vehicles. Congress first passed the Corporate Average Fuel Economy law in 1975 to increase the fuel economy of cars and light duty trucks. The law has become more stringent over time. On

May 19, 2009, President Obama put in motion a new national policy to increase fuel economy for all new cars and trucks sold in the United States. On April 1, 2010, the U.S. EPA and the Department of Transportation's National Highway Safety Administration announced a joint final rule establishing a national program that would reduce GHG emissions and improve fuel economy for new cars and trucks sold in the United States.

The first phase of the national program applies to passenger cars, light duty trucks, and medium duty passenger vehicles, covering model years 2012 through 2016. They require these vehicles to meet an estimated combined average emissions level of 250 grams of CO₂ per mile, equivalent to 35.5 miles per gallon if the automobile industry were to meet this CO₂ level solely through fuel economy improvements. The U.S. EPA and the National Highway Safety Administration issued final rules on a second phase joint rulemaking, establishing national standards for light duty vehicles for model years 2017 through 2025 in August 2012. The standards for model years 2017 through 2025 apply to passenger cars, light duty trucks, and medium duty passenger vehicles. The final standards are projected to result in an average industry fleetwide level of 163 grams/mile of CO2 in model year 2025, which is equivalent to 54.5 miles per gallon (mpg) if achieved exclusively through fuel economy improvements.

The U.S. EPA and the U.S. Department of Transportation issued final rules for the first national standards to reduce GHG emissions and improve fuel efficiency of heavy-duty trucks and buses on September 15, 2011, which became effective November 14, 2011. For combination tractors, the agencies adopted engine and vehicle standards that began in the 2014 model year and achieved up to a 20 percent reduction in CO2 emissions and fuel consumption by the 2018 model year. For heavy-duty pickup trucks and vans, the agencies adopted separate gasoline and diesel truck standards, which phased in starting in the 2014 model year.

Mandatory Reporting of Greenhouse Gases. The Consolidated Appropriations Act of 2008, passed in December 2007, requires the establishment of mandatory GHG reporting requirements. On September 22, 2009, the U.S. EPA issued the Final Mandatory Reporting of Greenhouse Gases Rule, which became effective January 1, 2010. The rule requires reporting of GHG emissions from large sources and suppliers in the United States and is intended to collect accurate and timely emissions data to inform future policy decisions. Under the rule, suppliers of fossil fuels or industrial GHGs, manufacturers of vehicles and engines, and facilities that emit 25,000 metric tons or more per year of GHG emissions are required to submit annual reports to the U.S. EPA.

Cap and Trade. Cap and trade refers to a policy tool where emissions are limited to a certain amount and can be traded, or provides flexibility on how the emitter can comply. There is no federal GHG cap-and-trade program currently; however, some states have joined to create initiatives to provide a mechanism for cap and trade.

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¹ United States Environmental Protection Agency (EPA). 2012. EPA and NHTSA Set Standards to Reduce Greenhouse Gases and Improve Fuel Economy for Model Years 2017-2025 Cars and Light Trucks. Website: http://www.epa.gov/otaq/climate/documents/420f12051.pdf. Accessed January 21, 2021.

The Western Climate Initiative partner jurisdictions have developed a comprehensive initiative to reduce regional GHG emissions to 15 percent below 2005 levels by 2020. The partners are California, British Columbia, Manitoba, Ontario, and Quebec. Currently, only California and Quebec are participating in the cap-and-trade program.

STATE

The California Legislature has enacted a series of statutes in recent years addressing the need to reduce GHG emissions across the State. These statutes can be categorized into four broad categories: (i) statutes setting numerical statewide targets for GHG reductions, and authorizing CARB to enact regulations to achieve such targets; (ii) statutes setting separate targets for increasing the use of renewable energy for the generation of electricity throughout the State; (iii) statutes addressing the carbon intensity of vehicle fuels, which prompted the adoption of regulations by CARB; and (iv) statutes intended to facilitate land use planning consistent with statewide climate objectives. The discussion below will address each of these key sets of statutes, as well as Executive Orders and CARB "Scoping Plans" intended to achieve GHG reductions under the first set of statutes and recent building code requirements intended to reduce energy consumption.

Statutes Setting Statewide GHG Reduction Targets

ASSEMBLY BILL 32 (GLOBAL WARMING SOLUTIONS ACT)

In 2006, the California State Legislature enacted the California Global Warming Solutions Act of 2006 (Health & Safety Code Section 38500 et seq.), also known as Assembly Bill (AB) 32 (Stats. 2006, ch. 488). AB 32 establishes regulatory, reporting, and market mechanisms to achieve quantifiable reductions in GHG emissions and a cap on statewide GHG emissions. AB 32 required that statewide GHG emissions be reduced to 1990 levels by 2020. This reduction was accomplished through an enforceable statewide cap on GHG emissions that was phased in starting in 2012. To effectively implement the cap, AB 32 directed the California Air Resources Board (CARB) to develop and implement regulations to reduce statewide GHG emissions from stationary sources.

SENATE BILL 32

SB 32 (Stats. 2016, ch. 249) added Section 38566 to the Health and Safety Code. It provides that "[i]n adopting rules and regulations to achieve the maximum technologically feasible and cost-effective greenhouse gas emissions reductions authorized by [Division 25.5 of the Health and Safety Code], [CARB] shall ensure that statewide greenhouse gas emissions are reduced to at least 40 percent below the statewide greenhouse gas emissions limit no later than December 31, 2030." In other words, SB 32 requires California, by 2030, to reduce its statewide GHG emissions so that they are 40 percent below those that occurred in 1990.

EXECUTIVE ORDERS S-3-05, B-30-15, AND B-55-18

The 2020 statewide GHG reduction target in AB 32 was consistent with the second of three statewide emissions reduction targets set forth in former Governor Arnold Schwarzenegger's 2005 Executive Order known as S-3-05, which is expressly mentioned in AB 32. (See Health & Safety Code

Section 38501, subd. (i).) That Executive Branch document included the following GHG emission reduction targets: by 2010, reduce GHG emissions to 2000 levels; by 2020, reduce GHG emissions to 1990 levels; by 2050, reduce GHG emissions to 80 percent below 1990 levels. To meet the targets, the Governor directed several State agencies to cooperate in the development of a climate action plan. The Secretary of Cal-EPA leads the Climate Action Team, whose goal is to implement global warming emission reduction programs identified in the Climate Action Plan and to report on the progress made toward meeting the emission reduction targets established in the executive order.

In 2015, Governor Brown issued Executive Order, B-30-15, which created a "new interim statewide GHG emission reduction target to reduce GHG emissions to 40 percent below 1990 levels by 2030 is established in order to ensure California meets its target of reducing GHG emissions to 80 percent below 1990 levels by 2050." SB 32 codified this target.

In 2018, the Governor issued Executive Order B-55-18, which established a statewide goal to "achieve carbon neutrality as soon as possible, and no later than 2045, and maintain and achieve negative emissions thereafter." The order directs the CARB to work with other State agencies to identify and recommend measures to achieve those goals. As discussed below, the 2022 Scoping Plan lays out a path towards achieving carbon neutrality by 2045.

SB 350

Senate Bill 350 (SB 350) (Stats. 2015, ch. 547) added to the Public Utilities Code language that puts into statute the 2050 GHG reduction target identified in Executive Order S-3-05, albeit in the limited context of new state policies (i) increasing the overall share of electricity that must be produced through renewable energy sources and (ii) directing certain State agencies to begin planning for the widespread electrification of the California vehicle fleet. Section 740.12(a)(1)(D) of the Public Utilities Code states that "[t]he Legislature finds and declares [that] ... [r]educing emissions of [GHGs] to 40 percent below 1990 levels by 2030 and to 80 percent below 1990 levels by 2050 will require widespread transportation electrification." Furthermore, Section 740.12(b) states that the California Public Utilities Commission (CPUC), in consultation with CARB and the California Energy Commission (CEC), must "direct electrical corporations to file applications for programs and investments to accelerate widespread transportation electrification to reduce dependence on petroleum, meet air quality standards, ... and reduce emissions of greenhouse gases to 40 percent below 1990 levels by 2030 and to 80 percent below 1990 levels by 2050."

AB 1279

In September 2022, the Legislature enacted AB 1279 (Stats. 2022, ch. 337). The bill declares the policy of the state to achieve net zero GHG emissions as soon as possible, but no later than 2045, and achieve and maintain net negative GHG emissions thereafter. Additionally, the bill requires that by 2045, statewide anthropogenic GHG emissions be reduced to at least 85% below 1990 levels.

Statutes Setting Target for the Use of Renewable Energy for the Generation of Electricity

CALIFORNIA RENEWABLES PORTFOLIO STANDARD

Senate Bill X1-2 (Stats. 2011, 1st Ex. Sess., ch. 1) set aggressive statutory targets for renewable electricity, culminating in the requirement that 33 percent of the State's electricity come from renewables by 2020. This legislation applies to all electricity retailers in the State, including publicly owned utilities, investor-owned utilities, electricity service providers, and community choice aggregators. All of these entities were required to meet renewable energy goals of 20 percent of retail sales from renewables by the end of 2013, 25 percent by the end of 2016, and 33 percent by the end of 2020. (See Pub. Utility Code, Section 399.11 et seq. [subsequently amended].) SB 350, discussed below, increases the Renewable Portfolio Standard to require 50 percent of electricity generated to be from renewables by 2030. (Pub. Utility Code, Section 399.11, subd (a); see also Section 399.30, subd. (c)(2).) In 2018, Senate Bill 100 (Stats. 2018, ch. 312) revised the above-described deadlines and targets so that the State will have to achieve a 50% renewable resources target by December 31, 2026 (instead of by 2030) and achieve a 60% target by December 31, 2030. The legislation also establishes a State policy that eligible renewable energy resources and zero-carbon resources supply 100% of retail sales of electricity to California end-use customers and 100% of electricity procured to serve all State agencies by December 31, 2045.

Statutes and CARB Regulations Addressing the Carbon Intensity of Petroleum-based Transportation Fuels

ASSEMBLY BILL 1493, PAVLEY CLEAN CARS STANDARDS

In 2002, the Legislature enacted Assembly Bill 1493 ("Pavley Bill") (Stats. 2002, ch. 200), which directed CARB to develop and adopt regulations that achieve the maximum feasible reduction of GHGs emitted by passenger vehicles and light-duty trucks beginning with model year 2009. (See Health and Safety Code Section 43018.5.) In September 2004, pursuant to this directive, CARB approved regulations to reduce GHG emissions from new motor vehicles beginning with the 2009 model year. These regulations created what are commonly known as the "Pavley standards." In September 2009, CARB adopted amendments to the Pavley standards to reduce GHG emissions from new motor vehicles through the 2016 model year. These regulations created what are commonly known as the "Pavley II standards." (See California Code of Regulations, Title 13, Sections 1900, 1961, and 1961.1 et seq.)

In 2012, CARB adopted an Advanced Clean Cars (ACC) program aimed at reducing both smog-causing pollutants and GHG emissions for vehicles model years 2017-2025. This historic program, developed in coordination with the USEPA and NHTSA, combined the control of smog-causing (criteria) pollutants and GHG emissions into a single coordinated set of requirements for model years 2015 through 2025. The regulations focus on substantially increasing the number of plug-in hybrid cars and zero-emission vehicles in the vehicle fleet and on making fuels such as electricity and hydrogen readily available for these vehicle technologies. The components of the ACC program are the Low-Emission Vehicle (LEV) regulations that reduce criteria pollutants and GHG emissions from light- and

medium-duty vehicles, and the Zero-Emission Vehicle (ZEV) regulation, which requires manufacturers to produce an increasing number of pure ZEVs (meaning battery electric and fuel cell electric vehicles), with provisions to also produce plug-in hybrid electric vehicles in the 2018 through 2025 model years. (See California Code of Regulations, Title 13, Sections 1900, 1961, 1961.1, 1961.2, 1961.3, 1965, 1968.2, 1968.5, 1976, 1978, 2037, 2038, 2062, 2112, 2139, 2140, 2145, 2147, 2235, and 2317 et seq.)

It is expected that the Pavley regulations will reduce GHG emissions from California passenger vehicles by about 34 percent below 2016 levels by 2025, all while improving fuel efficiency and reducing motorists' costs.

Statute Intended to Facilitate Land Use Planning Consistent with Statewide Climate Objectives

CALIFORNIA SENATE BILL 375 (SUSTAINABLE COMMUNITIES STRATEGY)

This 2008 legislation built on AB 32 by setting forth a mechanism for coordinating land use and transportation on a regional level for the purpose of reducing GHGs. The focus is to reduce miles traveled by passenger vehicles and light trucks. CARB is required to set GHG reduction targets for each metropolitan region for 2020 and 2035.² Each of California's metropolitan planning organizations then prepares a sustainable communities strategy that demonstrates how the region will meet its GHG reduction target through integrated land use, housing, and transportation planning. Once adopted by the metropolitan planning organizations, the sustainable communities strategy is to be incorporated into that region's federally enforceable regional transportation plan. If a metropolitan planning organization is unable to meet the targets through the sustainable communities strategy, then an alternative planning strategy must be developed that demonstrates how targets could be achieved, even if meeting the targets is deemed to be infeasible.

Climate Change Scoping Plans

2022 Scoping Plan Update

In accordance with AB 32, the CARB developed the first Scoping Plan in 2008 to outline the State's strategy to achieve 1990 level emissions by year 2020. In May 2014, the CARB released and adopted the *First Update to the Climate Change Scoping Plan* to identify the next steps in reaching AB 32 goals and evaluate the progress that has been made between 2000 and 2012. A newer version of the Scoping Plan was then adopted by the CARB in December 2017 (entitled *California's 2017 Climate Change Scoping Plan*). Lastly, the most recent version of the Scoping Plan was adopted by the CARB in November 2022 (entitled *Final 2022 Scoping Plan for Achieving Carbon Neutrality*) (2022 Scoping Plan), which was designed consistent with the long-term GHG reduction targets embedded in AB 1279. Since adoption of the 2008 Scoping Plan and the subsequent updates in 2014, 2017, and 2022, State agencies have adopted programs identified in the plan, and the Legislature has passed additional legislation to achieve the GHG reduction targets. Statewide strategies to reduce GHG emissions include the Low Carbon Fuel Standard, California Appliance Energy Efficiency regulations,

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² The San Joaquin COG region was assigned reduction targets of 12% by 2020 and 16% by 2035.

California Building Standards (e.g., CALGreen and the 2022 Building and Energy Efficiency Standards), zero carbon electricity by 2045, and changes in the corporate average fuel economy standards (e.g., Pavley I and California Advanced Clean Cars)).

Statutes Intended to Reduce Emissions of Short-lived Climate Pollutants

SB 605 AND SB 1383

SB 605 (2014) required CARB to complete a comprehensive strategy to reduce emissions of short-lived climate pollutants in the state, and SB 1383 (2016) required CARB to approve and implement that strategy by January 1, 2018. SB 1383 also establishes specific targets for the reduction of short-lived climate pollutants (40% below 2013 levels by 2030 for methane and HFCs, and 50% below 2013 levels by 2030 for anthropogenic black carbon), and provides direction for reductions from dairy and livestock operations and landfills. Accordingly, CARB adopted its Short-Lived Climate Pollutant Reduction Strategy (Reduction Strategy) in March 2017. The Reduction Strategy establishes a framework for the statewide reduction of emissions of black carbon, methane, and fluorinated gases.

Statute Intended to Achieve Carbon Neutrality and Foster Climate Adaptation and Resilience

ASSEMBLY BILL 1757

AB 1757 (September 2022) requires the California Natural Resources Agency (CNRA) to determine a range of targets for natural carbon sequestration, and for nature-based climate solutions that reduce GHG emissions for future years 2030, 2038, and 2045. These targets are to be determined by no later than January 1, 2024, and are established to support the state's goals to achieve carbon neutrality and foster climate adaptation and resilience.

Building Code Requirements Intended to Reduce GHG Emissions

CALIFORNIA ENERGY CODE

The California Energy Code (CCR Title 24, Part 6), which is incorporated into the Building Energy Efficiency Standards, was first established in 1978 in response to a legislative mandate to reduce California's energy consumption. Although these standards were not originally intended to reduce GHG emissions, increased energy efficiency results in decreased GHG emissions because energy efficient buildings require less electricity and thus less consumption of fossil fuels, which emit GHGs. The standards are updated periodically to allow consideration and possible incorporation of new energy efficiency technologies and methods.

The most recent Title 24 standards are the 2022 Title 24 standards. Buildings permitted on or after January 1, 2023, must comply with the 2022 Standards. The California Energy Commission updates the standards every three years. The CEC estimates that the 2022 Title 24 standards will reduce 10 million metric tons of GHG over 30 years. When compared to the 2019 Title 24 standards, the 2022 update focuses on: encouraging electric heat pump technology and use; establishing electric-ready

requirements when natural gas is installed; expanding solar photovoltaic (PV) system and battery storage standards; and strengthening ventilation standards to improve indoor air quality.

CALIFORNIA GREEN BUILDING STANDARDS CODE

The purpose of the California Green Building Standards Code (CalGreen) (CCR Title 24, Part 11) is to improve public health and safety and to promote the general welfare by enhancing the design and construction of buildings through the use of building concepts having a reduced negative impact or positive environmental impact and encouraging sustainable construction practices in the following categories: 1) planning and design; 2) energy efficiency; 3) water efficiency and conservation; 4) material conservation and resource efficiency; and 5) environmental quality. CalGreen, which became effective on January 1, 2011, instituted mandatory minimum environmental performance standards for all ground-up new construction of commercial, low-rise residential uses, and Stateowned buildings, as well as schools and hospitals. The mandatory standards require the following:

- 20 percent mandatory reduction in indoor water use relative to baseline levels;
- 50 percent construction/demolition waste must be diverted from landfills;
- Mandatory inspections of energy systems to ensure optimal working efficiency; and
- Low-pollutant emitting exterior and interior finish materials such as paints, carpets, vinyl flooring, and particle boards.

The voluntary standards require the following:

- Tier I: 15 percent improvement in energy requirements, stricter water conservation requirements for specific fixtures, 65 percent reduction in construction waste, 10 percent recycled content, 20 percent permeable paving, 20 percent cement reduction, and cool/solar reflective roof.
- Tier II: 30 percent improvement in energy requirements, stricter water conservation requirements for specific fixtures, 75 percent reduction in construction waste, 15 percent recycled content, 30 percent permeable paving, 30 percent cement reduction, and cool/solar reflective roof.

The latest version of CalGreen is the 2022 CalGreen Code, which became effective on January 1, 2023. Between 2010 and 2022, continuous updates and additions have been made to CALGreen, including water conservation and recycling, electric vehicle infrastructure and charging, and changes intended to eliminate conflicts with the California Energy Code, which is Part 6 of Title 24.

TITLE 20

CCR Title 20 requires manufacturers of appliances to meet state and federal standards for energy and water efficiency. The CEC certifies an appliance based on a manufacturer's demonstration that the appliance meets the standards. New appliances regulated under Title 20 include refrigerators, refrigerator-freezers, and freezers; room air conditioners and room air-conditioning heat pumps; central air conditioners; spot air conditioners; vented gas space heaters; gas pool heaters; plumbing fittings and plumbing fixtures; fluorescent lamp ballasts; lamps; emergency lighting; traffic signal modules; dishwaters; clothes washers and dryers; cooking products; electric motors; low-voltage

dry-type distribution transformers; power supplies; televisions and consumer audio and video equipment; and battery charger systems. Title 20 presents protocols for testing each type of appliance covered under the regulations, and appliances must meet the standards for energy performance, energy design, water performance, and water design. Title 20 contains three types of standards for appliances: federal and state standards for federally regulated appliances, state standards for federally regulated appliances.

SENATE BILL 1

SB 1 (Murray) (August 2006) established a \$3 billion rebate program to support the goal of the state to install rooftop solar energy systems with a generation capacity of 3,000 megawatts through 2016. SB 1 added sections to the Public Resources Code, including Chapter 8.8 (California Solar Initiative), that require building projects applying for ratepayer-funded incentives for photovoltaic systems to meet minimum energy efficiency levels and performance requirements. Section 25780 established that it is a goal of the state to establish a self-sufficient solar industry. The goals included establishing solar energy systems as a viable mainstream option for homes and businesses within 10 years of adoption and placing solar energy systems on 50% of new homes within 13 years of adoption. SB 1, also termed "Go Solar California," was previously titled "Million Solar Roofs."

SOLID WASTE

AB 939, AB 341, and AB 1826. In 1989, AB 939, known as the Integrated Waste Management Act (PRC Sections 40000 et seq.), was passed because of the increase in waste stream and the decrease in landfill capacity. The statute established the California Integrated Waste Management Board, which oversees a disposal reporting system. AB 939 mandated a reduction of waste being disposed where jurisdictions were required to meet diversion goals of all solid waste through source reduction, recycling, and composting activities of 25% by 1995 and 50% by 2000.

AB 341 (Chapter 476, Statutes of 2011 [Chesbro]) amended the California Integrated Waste Management Act of 1989 to include a provision declaring that it is the policy goal of the state that not less than 75% of solid waste generated be source-reduced, recycled, or composted by 2020, and annually thereafter. In addition, AB 341 required the California Department of Resources Recycling and Recovery (CalRecycle) to develop strategies to achieve the state's policy goal (CalRecycle, 2012).

AB 1826 (Chapter 727, Statutes of 2014, effective 2016) requires businesses to recycle their organic waste (i.e., food waste, green waste, landscape and pruning waste, nonhazardous wood waste, and food-soiled paper waste that is mixed in with food waste) depending on the amount of waste they generate per week. This law also requires local jurisdictions across the state to implement an organic waste recycling program to divert organic waste generated by businesses, including multifamily residential dwellings that consist of five or more units. The minimum threshold of organic waste generation by businesses subject to the law decreases over time, which means an increasingly greater proportion of the commercial sector will be required to comply.

REGIONAL

PG&E adopted the 2020 Integrated Resource Plan (IRP) on September 1, 2020, to provide guidance for serving the electricity and natural gas needs of residents and businesses within its service area while fulfilling regulatory requirements. The IRP contains the following objectives that are relevant to the Project:

- Clean Energy: In 2021, PG&E delivered nearly 50 percent of its electricity from RPS-eligible renewable resources, such as solar, wind, geothermal, biomass, and small hydropower. In addition, PG&E's GHG-free energy production, which encompasses renewable resources, large hydropower, and nuclear, satisfied all of PG&E's bundled retail sales in 2021.
- Reliability: PG&E's IRP analysis includes PG&E's contribution to system and local reliability, in compliance with the CPUC's resource adequacy requirements, especially as California transitions toward higher shares of GHG-free generation resources.
- Affordability: PG&E's IRP analysis selects resources to meet the state's clean energy and reliability goals and provides a system average rate forecast in compliance with the CPUC's requirements for investor-owned utilities.

SAN JOAQUIN AIR POLLUTION CONTROL DISTRICT

Climate Change Action Plan

On August 21, 2008, the Valley Air District Governing Board approved a proposal called the Climate Change Action Plan (CCAP). The CCAP began with a public process bringing together stakeholders, land use agencies, environmental groups, and business groups to conduct public workshops to develop comprehensive policies for CEQA Guidelines, a carbon exchange bank, and voluntary GHG emissions mitigation agreements for the Governing Board's consideration. The CCAP contains the following goals and actions:

- Develop GHG significance thresholds to address CEQA projects with GHG emission increases.
- Develop the San Joaquin Valley Carbon Exchange for banking and trading GHG reductions.
- Authorize use of the SJVAPCD [Valley Air District's] existing inventory reporting system to allow use for GHG reporting required by AB 32 regulations.
- Develop and administer GHG reduction agreements to mitigate proposed emission increases from new projects.
- Support climate protection measures that reduce greenhouse gas emissions as well as toxic
 and criteria pollutants. Oppose measures that result in a significant increase in toxic or
 criteria pollutant emissions in already impacted areas.

On December 17, 2009, the Valley Air District Governing Board adopted "Guidance for Valley Landuse Agencies in Addressing GHG Emission Impacts for New Projects under CEQA." The Valley Air District concluded that the existing science is inadequate to support quantification of the impacts that project-specific GHG emissions have on global climatic change. The Valley Air District found the effects of project-specific emissions to be cumulative.

The Valley Air District advises that the lead agency evaluate projects against performance-based standards and require the adoption of design elements, known as Best Performance Standards (BPS), to reduce GHG emissions. Since the BPS have not yet fully been established, the Valley Air District Guidance recommends that a CEQA lead agency:

[R]equire quantification of project specific GHG emissions and demonstration that project specific GHG emissions would be reduced or mitigated by at least 29%, compared to Business-as-Usual (BAU), including GHG emission reductions achieved since the 2002-2004 baseline period. Projects achieving at least a 29% GHG emission reduction compared to BAU would be determined to have a less than significant individual and cumulative impact for GHG.

BAU represents the emissions that would occur in 2020 if the average baseline emissions during the 2002–2004 period were grown to 2020 levels, without control.

Nevertheless, it should be noted that, in *Center for Biological Diversity v. Department of Fish & Wildlife*, 62 Cal. 4th 204 (2015) (also known as the Newhall Ranch case), the California Supreme Court concluded that in order for a lead agency to employ a BAU target as a threshold of significance to judge project-specific GHG emissions, such BAU threshold must be based upon substantial evidence to demonstrate what the required percentage reduction from BAU would be for an individual project as opposed to using statewide GHG figures. The court expressed skepticism that a percentage reduction goal applicable to the entire State would apply without change to an individual development project, regardless of its size or location. The Valley Air District has not updated its guidance to respond to the Supreme Court decision and to either provide evidence that its 29% BAU suggested threshold should be used or that another percentage reduction compared to BAU is supported by evidence for use to evaluate individual projects within the Air District. Therefore, the BAU analysis as identified by SJVAPCD is not employed for this EIR.

Rule 2301

While the CCAP indicated that the GHG emission reduction program would be called the San Joaquin Valley Carbon Exchange, the Valley Air District incorporated a method to register voluntary GHG emission reductions into its existing Rule 2301-Emission Reduction Credit Banking through amendments of the rule. Amendments to the rule were adopted on January 19, 2012. The purposes of the amendments to the rule include the following:

 Provide an administrative mechanism for sources to bank voluntary GHG emission reductions for later use.

- Provide an administrative mechanism for sources to transfer banked GHG emission reductions to others for any use.
- Define eligibility standards, quantitative procedures, and administrative practices to ensure that banked GHG emission reductions are real, permanent, quantifiable, surplus, and enforceable.

LOCAL

City of Tracy General Plan

The City of Tracy General Plan includes several policies that are relevant to GHG emissions. General Plan policies applicable to the Project are identified below:

POLICIES: AIR QUALITY ELEMENT

- AQ-1.1-P1. The City shall promote land use patterns that reduce the number and length of motor vehicle trips.
- AQ-1.1-P2. To the extent feasible, the City shall maintain a balance and match between jobs and housing.
- AQ-1.2-P3. Developers shall implement best management practices to reduce air pollutant emissions associated with the construction and operation of development projects.
- AQ-1.2-P4. New development projects should incorporate energy efficient design features for HVAC, lighting systems and insulation that exceed Title 24.
- AQ-1.2-P5. Use of solar water and pool heaters is encouraged.
- AQ-1.2-P6. Installation of solar voltaic panels on new homes and businesses shall be encouraged.
- AQ-1.2-P7. Trees should be planted on the south- and west-facing sides of new buildings or building undergoing substantial renovation in order to reduce energy usage.
- AQ-1.2-P14. Developments that significantly impact air quality shall only be approved if all
 feasible mitigation measures to avoid, minimize or offset the impact are implemented.
- AQ-1.2-P15. Encourage businesses to electrify loading docks or implement idling-reduction systems so that trucks transporting refrigerated goods can continue to power cab cooling elements during loading, layovers, and rest periods.
- AQ-1.3-P3. The City shall encourage employers to establish Transportation Demand Management programs.
- AQ-1.4-P1. The City shall continue to consult with other local, regional and State agencies
 on air quality planning efforts as well as encourage community participation in air quality
 planning.
- AQ-1.4-P2. The City shall be proactive in educating the public about the linkages between land use, transportation and air quality.
- AQ-1.4-P3. The City shall be proactive in reducing greenhouse gas emissions from City operations as well as new or renovated development.

City of Tracy Sustainability Action Plan

The City of Tracy Sustainability Action Plan was adopted in 2011 to achieve sustainability in numerous sectors including GHG emissions, energy, and transportation and land use. The Sustainability Action Plan includes specific measures to be implemented that the City estimates will reduce GHG emissions by 378,461 to 482,154 metric tons (MT) of CO₂e. These reductions would come in part from reductions in Vehicle Miles Traveled (VMT) and energy consumption. However, it should be noted that the sustainability measures included with the City of Tracy Sustainability Action Plan do not apply to land use projects.

3.7.3 IMPACTS AND MITIGATION MEASURES

GREENHOUSE GAS EMISSIONS THRESHOLDS OF SIGNIFICANCE

Consistent with Appendix G of the CEQA Guidelines, climate change-related impacts are considered significant if implementation of the proposed Project would do any of the following:

- 1. Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment.
- 2. Conflict with an applicable plan, policy, or regulation adopted for the purpose of reducing the emissions of greenhouse gases.

The vast majority of individual projects do not generate sufficient GHG emissions to create a project-specific impact through a direct influence to climate change; therefore, the issue of climate change typically involves an analysis of whether a project's contribution towards an impact is cumulatively considerable. "Cumulatively considerable" means that the incremental effects of an individual project are significant when viewed in connection with the effects of past projects, other current projects, and probable future projects (CEQA Guidelines, Section 15355).

For individual proposed projects, the significance of GHG emissions may be evaluated based on locally adopted quantitative thresholds, or consistency with a regional GHG reduction plan (such as a Climate Action Plan). However, the City of Tracy does not currently have a formal GHG emissions reduction plan or recommended emissions thresholds for determining significance associated with GHG emissions from development projects. As noted above, this EIR does not use the Air District's 2008 BAU threshold since it has not been updated in the wake of the *Newhall Ranch* decision.

Since no other local or regional Climate Action Plan is in place, the Project is assessed based on its consistency with CARB's adopted Scoping Plans, including the Project's compliance with relevant Scoping Plan measures, as well as the latest RTP/SCS for the region within which the Project is located within (i.e., the San Joaquin Council of Governments (SJCOG) 2022 RTP/SCS). It should be noted that the Scoping Plan is consistent with the AB 1279 GHG reduction targets of achieving carbon neutrality by 2045, and reducing anthropogenic emissions to 85 percent below 1990 levels by 2045. Therefore, consistency with the CARB's most recent Scoping Plan would also demonstrate consistency with the carbon neutrality requirements encapsulated by AB 1279.

Therefore, this analysis provides a qualitative assessment of the Project's compliance with the applicable plans, policies, and regulations for the purposes of reducing greenhouse gas emissions to determine whether the project would have a significant impact on the environment relative to GHGs. Separately, disclosure of the Project's estimated construction and operation-related GHG emissions are provided for the purposes of disclosure.³

PROJECT SUSTAINABILITY FEATURES

The Project applicant has committed to a variety of construction- and operation-related Project features with the goal to reduce Project emissions, reduce energy consumption, and promote sustainability, as provided below. It should be noted that it is not possible to quantify the emissions reduction potential of each of the emissions-reducing Project features. Therefore, only the emissions reductions associated with selected Project emissions-reducing features were quantified; these include the electricity reduction associated with the installation of the on-site rooftop solar photovoltaic system; and the usage of energy-efficient appliances.

CONSTRUCTION

- Electric hookups would be provided to reduce the need for diesel generators for electric construction equipment and, should diesel generators be needed, all such diesel generators would be equipped with emission control technology verified by EPA and/or CARB to reduce PM emissions by a minimum of 85%.
- During construction, heavy duty diesel hauling trucks would be model year 2010 or better.
- Costco would provide on-site meal options for construction workers.

SITE

- A substantial amount of the proposed plant material for new facilities would be native and drought tolerant and would use less water than other common species. Site perimeter and parking lot landscaping would provide vegetated buffers that would include trees, tree canopies and other vegetation.
- Irrigation systems for new facilities include the use of deep root watering bubblers for parking lot trees to minimize water usage and ensure that water goes directly to the intended planting areas.
- Storm water management plans are designed to maintain quality control and storm water discharge rates based on the City's requirements.
- Parking lot lights are designed at 38' in height to provide even light distribution and utilize less energy compared to a greater number of fixtures at lower heights. LED lamps are used to provide a higher level of perceived brightness with less energy than other lamps such as high-pressure sodium.

³ Project GHG emissions were provided using the latest version of CalEEMod (v2022.1), which represents the Air District's recommended modeling tool for estimating emissions for projects under CEQA.

- The project would provide no more parking spaces than the minimum required by the City (or less if authorized by the City and feasible for project operations) to encourage carpooling, high-occupancy vehicle use and use of non-auto transit.
- Costco would install Electric Vehicle (EV) capable (i.e., pre-wired) parking spaces as well as parking stalls with active EV charging stations per the California Building Code.

BUILDING

- New and renewable building materials are typically extracted and manufactured within the
 region. Materials such as concrete and concrete masonry units would be purchased local to
 the Project, minimizing the transport distances and resultant effects to road networks and
 regional air quality.
- Main building structures are comprised of pre-engineered systems that use 80% recycled steel. These pre-manufactured building components include structural framing and architectural metal wall and roof panels. These materials are shop finished, maximizing spans, and minimizing structure and waste during the construction process, reducing the overall construction duration.
- Solar PV panels would be installed on the roof of the buildings and/or elsewhere on site (e.g., awnings or canopies in parking areas) to generate approximately 3 Megawatts (MW) of renewable electricity for use on site. Batteries would also be installed to store some of that electricity for on-site energy needs.
- To the extent they do not conflict with the proposed rooftop solar PV panels, all building roofs would maintain a reflectance rating of .68, emittance of .25 and Solar Reflectance Index of 63, lessening heat gain. Reflective cool roof materials are used to lower heat absorption, subsequently lowering energy requirements during the hot summer months. This roofing material meets the requirements for the EPA's Energy Star energy efficiency program. Building management systems monitor performance and energy usage of HVAC systems.
- HVAC comfort systems are controlled by a computerized building management system to maximize efficiency. Costco's HVAC units are high efficiency direct ducted units. Costco completely phased out the use of HCFCs in its HVAC units, long before the Montreal Protocol timeline.
- Mechanical systems are site specifically commissioned and designed and field tested to
 ensure that the HVAC systems are performing to the high efficiency standards. HVAC
 systems would be all-electric and would use High Efficiency MERV filters.
- Electric charging infrastructure would be installed on the property to facilitate the conversion of the truck fleet to zero-emission electric trucks as they become available in the market and used for truck deliveries to and from the facility.
- Pre-manufactured insulated architectural metal walls meet or exceed current energy code requirements. Building heat absorption is further reduced by a decrease in the thermal mass of the metal wall when compared to a typical masonry block wall. Insulated architectural metal wall panels contain approximately 76 percent of recycled material.
- High-efficiency restroom fixtures are used, which conserves water by achieving a 40% decrease over U.S. standards.

- Energy efficient transformers (i.e., Square D Type EE transformers) are used.
- The site's building energy efficiency would exceed Title 24 Building Envelope Energy Efficiency Standards by at least 1% and all appliances to be installed would meet or exceed Title 24 requirements.
- Variable speed motors would be used on make-up air units and booster pumps.
- Gas water heaters would be direct vent and 94% efficient or greater.
- Construction waste would be recycled whenever possible.
- Lighting systems are designed with employee controllability in mind. Lighting is controlled by timers, but over-ride switches are provided for employee use.

OPERATIONS

- Deliveries are made in full trucks whenever feasible.
- The facility would not be designed for or include refrigerated cold storage; thus, no TRUs would be used at the facility.
- Costco trucks would be equipped with engine idle shut off timers and appropriate training would be provided and signage would be installed to ensure that all truck idling is limited to a maximum of two minutes.
- All exclusively onsite vehicles (i.e., forklifts, yard goats, pallet jacks, etc.) would be electric or zero-emission vehicles.
- Costco would train managers and employees on efficient scheduling and load management to minimize queuing and limit idling.
- Costco would include signage at docks, delivery areas, and truck routes to facilitate traffic and limit idling.
- This Project's additional warehouse space would provide the existing nearby Tracy Depot distribution facilities with increased capacity and storage of products and Costco would relocate key DDC depot operations from its existing Stockton location to this facility to maximize efficiency and minimize miles traveled for delivery.
- · Costco has been an active user of recycled content in packaging for many years and continues to increase its use of recycled content.
- Costco would provide a separate employee parking area accessible by its own curb cut entry and would provide a clearly-delineated, separate pedestrian pathway for employees connecting project buildings to the employee parking area and such pathway would include a lit crosswalk with flashing indicator lights where the path crosses vehicle routes.
- Bicycle parking would be provided in the employee parking lot and at the front entry of each building.
- Costco would participate in and offer all employees the opportunity to make use of a ride share program.
- Costco would provide on-site meal options for employees (e.g., micro market vending machines that offer drink and food for sale to employees or food trucks [as regulated by Section 10.08.3193 - Mobile Food Vendors of the City's Municipal Code]) to minimize offsite employee trips during shifts.

 Building organic waste (i.e., green waste, wood waste, food waste and fibers such as paper and cardboard) would be recycled to the maximum extent possible and in full compliance with Senate Bill 1383.

IMPACTS AND MITIGATION MEASURES

Impact 3.7-1: Project implementation would not generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment and would not conflict with an applicable plan, policy, or regulation adopted for the purpose of reducing the emissions of greenhouse gases (Less than Significant)

Emissions of GHGs contributing to global climate change are attributable in large part to human activities associated with the industrial/manufacturing, utility, transportation, residential, and agricultural sectors. Therefore, the cumulative global emissions of GHGs contributing to global climate change can be attributed to every nation, region, and city, and virtually every individual on Earth. A project's GHG emissions are at a micro-scale relative to global emissions, but could result in a cumulatively considerable incremental contribution to a significant cumulative macro-scale impact. Implementation of the Project would contribute to increases of GHG emissions that are associated with global climate change. Estimated GHG emissions attributable to Project development would be primarily associated with increases of CO_2 and other GHG pollutants, such as methane (CH_4) and nitrous oxide (N_2O), from mobile sources and utility usage.

The Project's short-term construction-related and long-term operational GHG emissions were estimated using the California Emission Estimator Model (CalEEMod)TM (v.2022.1). CalEEMod is a statewide model designed to provide a uniform platform for government agencies, land use planners, and environmental professionals to quantify GHG emissions from land use projects. The model quantifies direct GHG emissions from construction and operation (including vehicle use), as well as indirect GHG emissions, such as GHG emissions from energy use, solid waste disposal, vegetation planting and/or removal, and water use. Emissions are expressed in annual metric tons of CO_2 equivalent units of measure (i.e., MT CO_2 e), based on the global warming potential of the individual pollutants.

SHORT-TERM CONSTRUCTION GHG EMISSIONS

Estimated maximum GHG emissions associated with construction of the proposed Project are summarized in Table 3.7-2. These emissions include all worker vehicle, vendor vehicle, hauler vehicle, and off-road construction vehicle GHG emissions. For the purposes of this analysis, based on input from the Project applicant, the proposed Project is assumed to commence construction in 2024 and finish in 2026. While the Project could be built in two phases given the two buildings, these estimates conservatively assume that the Project would be constructed within a single, sequenced phase. See Appendix A for further detail.

TABLE 3.7-2: TOTAL CONSTRUCTION GHG EMISSIONS (MT CO₂E/YEAR)

YEAR	B10- CO2	Non-B10- CO2	TOTAL CO2	CH4	N_2O	CO ₂ E
2024	0	1,467	1,467	0.05	0.05	1,485
2025	0	4,173	4,173	0.135	0.26	4,254
2026	0	1,855	1,855	0.045	0.16	1,907
Total	0	7,495	7,495	0.23	0.47	7,646

SOURCES: CALEEMOD (V.2022.1)

As presented in the table, short-term construction emissions of GHGs are estimated to be a total of approximately 7,646 MT CO₂e.

OPERATIONAL GHG EMISSIONS

The operational GHG emissions estimate for the proposed Project includes on-site area, energy, mobile, waste, and water emissions. Estimated GHG emissions associated with operation of the proposed Project are summarized in Table 3.7-3, below. It should be noted that CalEEMod does not account for Governor Newsom's Zero-Emission by 2035 Executive Order (N-79-20), which requires that all new cars and passenger trucks sold in California be zero-emission vehicles by 2035; CalEEMod also does not account for the new CARB rules related to truck electrification (e.g. Advanced Clean Trucks Regulation). The new Executive Order and CARB rules are anticipated to substantially reduce the operational emissions (i.e., mobile emissions) associated with passenger vehicles and freight trucks over time. The operational emissions results provided in Table 3.7-3 are likely an overestimate for mobile emissions, given the state's ongoing effort to increase electric vehicles and trucks. As shown in the following table, the annual GHG emissions associated with the proposed Project would be approximately 25,134 MT CO₂e.

TABLE 3.7-3: OPERATIONAL GHG EMISSIONS AT BUILDOUT (METRIC TONS/YEAR)

	B10- CO ₂	Non-Bio- CO ₂	TOTAL CO ₂	CH_4	N_2O	CO ₂ E
Area	0	25.5	25.5	<0.01	<0.01	25.6
Energy	0	1,536	1,536	0.21	0.02	1,547
Mobile	0	21,569	21,569	0.5	2.58	22,377
Waste	146	0	146	14.6	0	512
Water	128	122	250	13.1	0.31	672
Total	274	23,252	23,527	28.5	2.92	25,134

SOURCES: CALEEMOD (V.2022.1)

CONSISTENCY WITH 2022 SCOPING PLAN

The CARB's 2022 Scoping Plan (the latest version of the Scoping Plan) provides policies that are considered needed to meet the State's mid-term and long-term GHG emissions reduction targets. Specifically, the CARB's 2022 Scoping Plan identifies that it "...lays out the sector-by-sector roadmap for California, the world's fifth largest economy, to achieve carbon neutrality by 2045 or earlier...". The Scoping Plan addresses recent legislation and direction from Governor Newsom, by extending and expanding upon the earlier Scoping Plans with a target of reducing anthropogenic emissions to 85 percent below 1990 levels by 2045, and adding carbon neutrality as a science-

based guide and touchstone for California's climate work. The Scoping Plan is therefore consistent with the AB 1279 GHG reduction targets of achieving carbon neutrality by 2045, and reducing anthropogenic emissions to 85 percent below 1990 levels by 2045. The Project's consistency with the applicable 2022 Scoping Plan policies is discussed in Table 3.7-4, below.

TABLE 3.7-4: PROJECT CONSISTENCY WITH THE 2022 SCOPING PLAN

Policy	Project Consistency			
Transportation Electrification				
Convert local government fleets to ZEVs and provide EV charging at public sites Create a jurisdiction-specific ZEV	No Conflict. While this goal is not applicable to an individual commercial development project, the Project includes an EV parking			
ecosystem to support deployment of ZEVs statewide (such as building standards that exceed state building codes, permit streamlining, infrastructure siting, consumer education, preferential parking	requirement and includes two (2) installed EV spaces. Further, the Project would be designed to facilitate conversion of truck docks to serve electric trucks. Electric charging infrastructure would be installed on the property to facilitate the conversion of the truck fleet to zero-emission electric trucks once commercially available.			
policies, and ZEV readiness plans)	VMT Reduction			
Reduce or eliminate minimum parking	VIVII Reduction			
standards				
Implement Complete Streets policies and investments, consistent with general plan circulation element requirements				
Increase access to public transit by increasing density of development near				
transit, improving transit service by increasing service frequency, creating bus priority lanes, reducing or eliminating fares, microtransit, etc.	No Conflict. Although this goal is not applicable to an individual commercial development project, the Project is implementing neighborhood design improvements such as pedestrian network.			
Increase public access to clean mobility options by planning for and investing in electric shuttles, bike share, car share, and walking	improvements, traffic calming measures, and would limit parking supply as feasible. The Project would include a separate employee parking area accessible by its own curb cut entry and flashing sidewalk lighting would be used between the employee parking and DDC Office.			
Implement parking pricing or transportation demand management pricing strategies	The Project would construct the minimum number of spaces required by City code, and would work with the City to explore whether an even lower number of spaces is feasible.			
Amend zoning or development codes to enable mixed-use, walkable, transit-oriented, and compact infill development (such as increasing the allowable density of a neighborhood)	Additionally, the Project would include bicycle parking at the employee lot and at each depot building, as well as a rideshare program for employees with the goal of reducing employee VMT.			
Preserve natural and working lands by implementing land use policies that guide development toward infill areas and do not convert "greenfield" land to urban				
uses (e.g., green belts, strategic conservation easements)				
	Building Decarbonization			
Adopt all-electric new construction reach	No Conflict. Although this goal is not applicable to an individual			
codes for residential and commercial uses	commercial development project, the Project intends to supply 100% of			
Adopt policies and incentive programs to	its electricity demand from renewable sources associated with a			
implement energy efficiency retrofits for	combination of onsite generation and direct source renewable			
existing buildings, such as weatherization,	purchased energy. Costco has entered into direct source renewable			
lighting upgrades, and replacing energy- intensive appliances and equipment with	purchase contracts sufficient to supply these needs.as The Project plans to install solar PV on the roof of buildings and/or elsewhere on the site			

more efficient systems (such as Energy Star-rated equipment and equipment controllers)

Adopt policies and incentive programs to electrify all appliances and equipment in existing buildings such as appliance rebates, existing building reach codes, or time of sale electrification ordinances

Facilitate deployment of renewable energy production and distribution and energy storage on privately owned land uses (e.g., permit streamlining, information sharing)

Deploy renewable energy production and energy storage directly in new public projects and on existing public facilities (e.g., solar photovoltaic systems on rooftops of municipal buildings and on canopies in public parking lots, battery storage systems in municipal buildings)

(e.g., awnings or canopies in the parking areas), which is expected to generate approximately 3 MW of renewable electricity for use onsite. Batteries would also be installed to store some of the electricity for onsite energy needs. In addition, the site's building energy efficiency will exceed Title 24 Building Envelope Energy Efficiency Standards by at least 1%

SOURCE: 2022 SCOPING PLAN, TABLE 1, APPENDIX D

In addition to Project commitments discussed in Table 3.7-4, the proposed Project's operational emissions would be reduced as regulations are implemented by the CARB and other State agencies to comply with the statewide GHG reduction targets. Many of these regulations are already identified in the 2022 Scoping Plan. These statewide actions are anticipated to reduce operational GHG emissions even further below those identified in Table 3.7-2 and Table 3.7-3. For example, the proposed Project's transportation emissions would be expected to decline as vehicle efficiency standards are implemented beyond the Advanced Clean Cars II program and the Low Carbon Fuel Standard is strengthened. Furthermore, CalEEMod does not account for Governor Newsom's Zero-Emission by 2035 Executive Order (N-79-20) or CARB's subsequent regulations, which requires that all new cars and passenger trucks sold in California be zero-emission vehicles by 2035 and that heavy duty truck emissions be reduced by greater truck electrification. These programs are anticipated to substantially reduce the operational emissions (i.e., mobile emissions) associated with passenger vehicles and freight trucks further, over time.

Overall, the proposed Project would not conflict with the 2022 Scoping Plan. The proposed Project incorporates a wide array of construction- and operation-related Project features that reduce Project emissions, as provided previously (see the list of Project features under the *Project Sustainability Features* discussion, above). Therefore, the Project would be considered consistent with the 2022 Scoping Plan. Since the proposed Project would be consistent with the CARB's 2022 Scoping Plan, buildout of the proposed Project would not interfere with the main programs the CARB has identified to support its conclusions that the State is on a trajectory to meet the 2045 GHG target. Overall, the proposed Project would not impede the 2022 Scoping Plan and would help the State to progress towards this target.

CONSISTENCY WITH SICOG'S 2022 RTP/SCS

The SJCOG's 2022 RTP/SCS includes eight policies with corresponding implementation strategies for conserving energy, maximizing mobility and accessibility, increasing safety and security, preserving

the transportation system, supporting economic development, promoting interagency cooperation and public participation, maximizing cost effectiveness, and improving quality of life for residents. These strategies include similar measures to the 2022 Scoping Plan, such as supporting energy and water efficiency. The Project's consistency with the applicable 2022 RTP/SCS strategies is discussed in Table 3.7-5, below.

TABLE 3.7-5: PROJECT CONSISTENCY WITH THE SJCOG'S 2022 RTP/SCS

Policy	Project Consistency		
Enhance the Environment for Existing and Future Generations and Conserve Energy	No Conflict. The Project would utilize electricity provided by Pacific Gas & Electric (PG&E) which is required to meet the future year renewable portfolio performance standards. In addition, future development associated with Project implementation would be required to meet the applicable requirements of the 2022 (or more current) Title 24 Building Energy Efficiency Standards.		
Maximize Mobility and Accessibility	No Conflict. The Project would support the use of zero-emission and low-emission vehicles, by design to facilitate conversion of truck docks to serve electric trucks. Electric charging infrastructure will be installed on the property to facilitate the conversion of the truck fleet to zero-emission electric trucks once commercially available. In addition, the Project would support EV-ready charging spaces, consistent with the requirements of the latest version of the Title 24 Building Energy Efficiency Standards. In addition, although this Project is not a transportation improvement project, the Project is located in a city where regional transit improvements are planned. Moreover, the proposed Project would include many project features that improve mobility and accessibility, including providing pedestrian network improvements, providing bicycle parking, and providing rideshare employees to employees.		
Increase Safety and Security	No Conflict. The Project would be developed using the latest State and local requirements relating to safety and security. Development of the Project site would include other uses to support and complement the proposed residential development include public utility infrastructure, public and private roadways, curb/gutters/sidewalks, other pedestrian facilities, private parking, street lighting, and street signage, which would enhance the safety and security of the site and it surroundings, by connecting to existing development.		
Preserve the Efficiency of the Existing Transportation System	Not applicable. This is not a transportation improvement project and is therefore not applicable. The Project would not interfere with the efficiency of any existing transportation system.		
Support Economic Vitality	No Conflict. The proposed Project would create local jobs as well as provide new shopping options for local and regional residents, thereby supporting economic vitality.		
Promote Interagency Coordination and Public Participation for Transportation Decision-Making and Planning Efforts	Not applicable. This is not a transportation planning or improvement project and is therefore not applicable.		
Maximize the Cost Effectiveness	No Conflict. The proposed Project would be developed based on market demand.		
Improve the Quality of Life for Residents	No Conflict. The proposed Project would provide additional shopping options for local and regional residents, thereby improving the quality of life for residents.		

SOURCE: SJCOG 2022 RTP/SCS

As shown in Table 3.7-5, above, the Project would not conflict with any of the GHG emissions reduction strategies contained in the SJCOG's 2022 RTP/SCS. Therefore, the Project is considered to be consistent with SJCOG's 2022 RTP/SCS.

EXECUTIVE ORDER S-3-05

The Executive Order S-3-05 2050 target has not been codified by legislation. However, studies have shown that, in order to meet the 2050 target, aggressive pursuit of technologies in the transportation and energy sectors, including electrification and the decarbonization of fuel, will be required. Because of the technological shifts required and the unknown parameters of the regulatory framework in 2050, quantitatively analyzing the project's impacts further relative to the 2050 goal is speculative for purposes of CEQA.⁴

The CARB recognizes that AB 32 establishes an emissions reduction trajectory that will allow California to achieve the more stringent 2050 target: "These [greenhouse gas emission reduction] measures also put the State on a path to meet the long-term 2050 goal of reducing California's GHG emissions to 80 percent below 1990 levels. This trajectory is consistent with the reductions that are needed globally to stabilize the climate." In addition, the CARB's First Update to the Scoping Plan "lays the foundation for establishing a broad framework for continued emission reductions beyond 2020, on the path to 80 percent below 1990 levels by 2050," and many of the emission reduction strategies recommended by the CARB would serve to reduce the proposed project's post-2020 emissions level to the extent applicable by law:

- Energy Sector: Continued improvements in California's appliance and building energy
 efficiency programs and initiatives, such as the State's zero net energy building goals, would
 serve to reduce the proposed project's emissions level. Additionally, further additions to
 California's renewable resource portfolio would favorably influence the project's emissions
 level.
- Transportation Sector: Anticipated deployment of improved vehicle efficiency, zeroemission technologies, lower carbon fuels, and improvement of existing transportation systems all will serve to reduce the project's emissions level.
- Water Sector: The project's emissions level will be reduced as a result of further utilization of water conservation technologies.
- Waste Management Sector: Plans to further improve recycling, reuse and reduction of solid waste will beneficially reduce the project's emissions level.

In his January 2015 inaugural address, Governor Brown expressed a commitment to achieve "three ambitious goals" that he wanted to see accomplished by 2030 to reduce the State's GHG emissions:

⁴ California Air Resources Board (CARB). 2014. First Update to the Climate Change Scoping Plan. Website: http://www.arb.ca.gov/cc/scopingplan/document/updatedscopingplan2013.htm. Accessed September 11, 2023.

- Increasing the State's Renewable Portfolio Standard from 33 percent in 2020 to 50 percent in 2030;
- Cutting the petroleum use in cars and trucks in half; and
- Doubling the efficiency of existing buildings and making heating fuels cleaner.

These expressions of executive branch policy may be manifested in adopted legislative or regulatory action through the State agencies and departments responsible for achieving the State's environmental policy objectives, particularly those relating to global climate change.⁵

Further, studies show that the State's existing and proposed regulatory framework will allow the State to reduce its GHG emissions level to 40 percent below 1990 levels by 2030, and to 80 percent below 1990 levels by 2050. Even though these studies did not provide an exact regulatory and technological roadmap to achieve the 2030 and 2050 goals, they demonstrated that various combinations of policies could allow the Statewide emissions level to remain very low through 2050, suggesting that the combination of new technologies and other regulations not analyzed in the studies could allow the State to meet the 2050 target.⁶

Given the proportional contribution of mobile source-related GHG emissions to the State's inventory, recent studies also show that relatively new trends—such as the increasing importance of web-based shopping, the emergence of different driving patterns, and the increasing effect of web-based applications on transportation choices—are beginning to substantially influence transportation choices and the energy used by transportation modes. These factors have changed the direction of transportation trends in recent years and will require the creation of new models to effectively analyze future transportation patterns and the corresponding effect on GHG emissions. For the reasons described above, the proposed project's post-2020 emissions trajectory is expected to follow a declining trend, consistent with the 2030 and 2050 targets.

CONCLUSION

The proposed Project would be consistent with relevant plans, policies, and regulations associated with GHGs, notably the most recent version of the CARB's Scoping Plan, and the SJCOG's 2022 RTP/SCS. This would ensure that the proposed Project would be consistent with, and would not impair, the State's carbon neutrality standard by year 2045 as established under AB 1279. The State is making progress toward reducing GHG emissions in key sectors such as transportation, industry, and electricity. Since the Project would be consistent with State GHG Plans, it would not impede the State's goals of reducing GHG emissions 40 percent below 1990 levels by 2030, and of achieving carbon neutrality by 2045. The proposed Project would make a reasonable fair share contribution

⁶ Energy and Environmental Economics, 2015. Pathways to Deep Carbonization in the United States. Website: http://deepdecarbonization.org/wp-

⁵ Brown, Edmund G. Jr. 2015. Press Release: California Establishes Most Ambitious Greenhouse Gas Goal in North America. April 29.

Website: https://www.gov.ca.gov/news.php?id=18938. Accessed February 2, 2021.

content/uploads/2015/11/US_Deep_Decarbonization_Technical_Report_Exec_Summary.pdf. Accessed June 8, 2022.

to the State's GHG reduction goals, by implementing a wide array of Project features that would reduce GHG emissions (see the list of Project features listed within the *Project Sustainability Features* discussion, above) and therefore, the proposed Project's GHG emissions would be considered to have a *less than significant* impact.

THRESHOLDS OF SIGNIFICANCE (ENERGY CONSERVATION)

Consistent with Appendices F and G of the CEQA Guidelines, energy-related impacts are considered significant if implementation of the proposed Project would do the following:

- Result in potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during Project construction or operation;
- Conflict with or obstruct a state or local plan for renewable energy or energy efficiency;

In order to determine whether or not the proposed Project would result in a significant impact on energy use, this EIR includes an analysis of proposed Project energy use, as provided under *Impacts and Mitigation Measures* below.

IMPACTS AND MITIGATION MEASURES

Impact 3.7-2: Project implementation would not result in the inefficient, wasteful, or unnecessary use of energy resources, and would not conflict with or obstruct a state or local plan for renewable energy or energy efficiency (Less than Significant)

According to the CEQA Guidelines, the means to achieve the goal of conserving energy include decreasing overall energy consumption, decreasing reliance on natural gas and oil, and increasing reliance on renewable energy sources. In particular, the proposed Project would be considered "wasteful, inefficient, and unnecessary" if it were to violate State and federal energy standards and/or result in significant adverse impacts related to Project energy requirements, energy inefficiencies, energy intensiveness of materials, effects on local and regional energy supplies or on requirements for additional capacity, compliance with existing energy standards, effects on energy resources, or transportation energy use requirements. In addition, the Project could have a significant energy impact if it would conflict or create an inconsistency with an applicable plan, policy, or regulation for renewable energy or energy efficiency.

The proposed Project includes various characteristics that reduce the inefficient, wasteful, or unnecessary use of energy. Overall, a wide variety of additional Project features would be implemented that would substantially reduce energy emissions (see the list of Project features listed within the *Project Sustainability Features* discussion, above). For example, beyond simply complying with State requirements such as the energy efficiency requirements of the latest version of the California Title 24 Energy Efficiency Standards, the Project would exceed the Title 24 Building Envelope Energy Efficiency Standards by at least 1% and all appliances to be installed will meet or exceed Title 24 requirements.

The Project is also anticipated to produce approximately 3 MW of solar photovoltaic (PV) for on-site use. Furthermore, to the extent they do not conflict with the proposed rooftop solar PV panels, all building roofs would maintain a reflectance rating of .68, emittance of .25 and Solar Reflectance Index of 63, lessening heat gain. Further, HVAC comfort systems would be controlled by a computerized building management system to maximize efficiency.

Moreover, it should be noted that, over time, electrification of the vehicles will increase due to state requirements, and state and national trends. Electric charging infrastructure would be installed on the property to facilitate the conversion of the truck fleet to zero-emission electric trucks as they become available in the market and used for truck deliveries to and from the facility.

Furthermore, the proposed Project includes a Transportation Demand Management (TDM) strategy for passenger vehicles, as described under Mitigation Measure 3.13-1 (see Section 3.13: Transportation and Circulation of the Draft EIR, for further detail).

The amount of energy used by the proposed Project during operation would include the amount of energy used by Project buildings and outdoor lighting, and the fuel used by vehicle trips generated during Project construction and operation, fuel used by off-road construction vehicles during construction activities, and fuel used by Project maintenance activities during Project operation. The following discussion provides a detailed calculation of energy usage expected for the proposed Project, as provided by applicable modelling software (i.e. CalEEMod v2022.1) and the CARB EMFAC2021). Additional assumptions and calculations are provided within Appendix B.2 of this EIR.

ELECTRICITY AND NATURAL GAS

Electricity and natural gas used by the proposed Project would be used primarily to generate energy for Project buildings, as well as for outdoor parking lot lighting. As shown in further detail in the CalEEMod modeling outputs provided in Appendix B, "Energy" is one of the categories that was modeled for GHG emissions. As also shown in the CalEEMod modeling outputs as provided in Appendix B, the proposed Project is anticipated to consume approximately 11,040,127 kWh of electricity per year and approximately 9,693,520 kBTU per of natural gas per year. Moreover, this is likely a conservative estimate, given that the CalEEMod model does not account for the latest version of Title 24. Furthermore, this also does not account for the vast majority of the Project's energy efficiency commitments, which would likely drive down the energy usage much further than identified herein.

ON-ROAD VEHICLES (OPERATION)

The proposed Project would generate vehicle trips (i.e., passenger vehicles for employees and heavy-duty trucks for hauling) during its operational phase. Compliance with applicable State laws and regulations would limit idling and a part of a comprehensive regulatory framework that is implemented by the CARB. A description of Project operational on-road mobile energy usage is provided below.

According to the Traffic Study prepared for the proposed Project (Kimley Horn, 2022), and as described in more detail in Section 3.13 of this EIR, the proposed Project would increase total vehicle

trips by approximately 3,800 new daily trips. In order to calculate operational on-road vehicle energy usage, De Novo Planning Group used fleet mix data from the CalEEMod (v.2022.1) output for the proposed Project, and Year 2025 gasoline and diesel MPG (miles per gallon) factors for individual vehicle classes as provided by EMFAC2021, to derive weighted average gasoline and diesel MPG factors for the vehicle fleet as a whole. Based on these calculations, as provided in Appendix B, upon full buildout, the proposed Project would generate operational vehicle trips that would use a total of approximately 1,956 gallons of gasoline and 4,523 gallons of diesel per day, or 713,971 gallons of gasoline and 1,650,744 gallons of diesel per year.

The proposed Project's buildings would be designed and constructed in accordance with the City's latest adopted energy efficiency standards, which are based on the State's Title 24 Energy Efficiency Standards for Nonresidential Buildings and Green Building Code Standards. Beyond simply complying with State requirements such as the energy efficiency requirements of the latest version of the California Title 24 Energy Efficiency Standards, the Project would exceed the Title 24 Building Envelope Energy Efficiency Standards by at least 1% and all appliances to be installed will meet or exceed Title 24 requirements. These standards include minimum energy efficiency requirements related to building envelope, mechanical systems (e.g., heating, ventilation, and air conditioning [HVAC] and water heating systems), and indoor and outdoor lighting, are widely regarded as the some of the most advanced and stringent building energy efficiency standards in the country. Moreover, as specified in Chapter 5, Part 11 of the Title 24 standards, the proposed project would be required to incorporate electrical conduit to facilitate future installation of EV charging infrastructure. In addition, as specified in Subchapter 6, Part 6 of the Title 24 standards, the proposed Project would be required to design the proposed buildings to structurally accommodate future installation of a rooftop solar PV system. In fact, the on-site solar PV system would greatly exceed the minimum required by law. As such, the design of the proposed project would facilitate the future commitment to renewable energy resources. Therefore, building energy consumption would not be considered wasteful, inefficient, or unnecessary.

Moreover, as discussed in Section 3.13: Transportation and Circulation, the proposed project would be required to implement various Transportation Demand Management (TDM) strategies that would contribute to fuel savings through incentives for project staff to utilize non-motorized transportation modes. Thus, transportation fuel consumption would not be wasteful, inefficient, or unnecessary.

ON-ROAD VEHICLES (CONSTRUCTION)

The proposed Project would also generate on-road vehicle trips during Project construction (from construction workers and vendors travelling to and from the Project site). De Novo Planning Group estimated the vehicle fuel consumed during these trips based on the assumed construction schedule, vehicle trip lengths and number of workers per construction phase as provided by CalEEMod, and Year 2023 gasoline and diesel MPG factors provided by EMFAC2021 (year 2023 factors were used to represent a conservative analysis, as the energy efficiency of construction activities is anticipated to improve over time). For the sake of simplicity and to be conservative, it was assumed that all construction worker light duty passenger cars and truck trips use gasoline as a fuel source, and all medium and heavy-duty vendor trucks use diesel fuel. Table 3.7-5, below,

describes gasoline and diesel fuel consumed during each construction phase (in aggregate). As shown, the vast majority of on-road mobile vehicle fuel used during the construction of the proposed Project would occur during the building construction phase. See Appendix B.2 of this EIR for a detailed accounting of construction on-road vehicle fuel usage estimates.

TABLE 3.7-5: ON-ROAD MOBILE FUEL USAGE BY PROJECT CONSTRUCTION ACTIVITIES — BY PHASE

CONSTRUCTION PHASE	TOTAL GALLONS OF GASOLINE FUEL(B)	TOTAL GALLONS OF DIESEL FUEL(B)	
Site Preparation	140	-	
Grading	2,577	250	
Phase 1 - Building Construction	107,119	96,773	
Phase 1 - Site Finishing	289	204	
Phase 2 - Site Finishing	378	204	
Off-site Grading	4,906	-	
Phase 2 – Building Construction	68,166	61,583	
Off-site Paving	330	-	
Off-site Improvements	2,240	-	
Phase 1 - Paving	254	-	
Phase 2 - Paving	96	-	
Total	186,495	159,014	

NOTE: (A) PROVIDED BY CALEEMOD OUTPUT. (B) SEE APPENDIX B.3 OF THIS EIR FOR FURTHER DETAIL

Source: CaleEMod (v.2022.1); EMFAC2021.

OFF-ROAD EQUIPMENT (CONSTRUCTION)

Off-road construction equipment would use diesel fuel during the construction phase of the proposed Project. A non-exhaustive list of off-road constructive equipment expected to be used during the construction phase of the proposed Project includes: forklifts, generator sets, tractors, excavators, and dozers. Based on the total amount of CO₂ emissions expected to be generated by the proposed Project (as provided by the CalEEMod output), and standard conversion factors (as provided by the U.S. Energy Information Administration), the proposed Project would use a total of approximately 338,318 gallons of diesel fuel for off-road construction equipment. Detailed calculations are provided in Appendix B.2 of this EIR.

State laws and regulations would limit idling from both on-road and off-road diesel-powered equipment and are part of a comprehensive regulatory framework that is implemented by the CARB. Additionally, as a practical matter, it is reasonable to assume that the overall construction schedule and process would be designed to be as efficient as feasible in order to avoid excess monetary costs. For example, equipment and fuel are not typically used wastefully due to the added expense associated with renting the equipment, maintaining it, and fueling it. Therefore, the opportunities for further future efficiency gains during construction are limited. For the foregoing reasons, it is anticipated that the construction phase of the project would not result in wasteful, inefficient, and unnecessary consumption of energy.

COMPLIANCE WITH CITY'S SUSTAINABILITY ACTION PLAN

The City's Sustainability Action Plan and General Plan contain goals, objectives and policies related to energy conservation that are relevant to this analysis, as provided Section 3.7.2. While several of these goals, objectives and policies are voluntary or cannot be implemented by an individual development project, compliance with applicable Title 24 standards would ensure that the proposed Project would not conflict with any of the Sustainability Action Plan energy conservation policies related to the proposed project's building envelope, mechanical systems, and indoor and outdoor lighting.

OTHER

The Project would install a solar photovoltaic (PV) roof system, including on-site PV connection to the local electric grid. The on-site Solar PV roof system is anticipated to provide approximately 3 megawatts (MW) of building demand. In addition, a solar microgrid would be included within the Project with adequate battery storage.

Separately, as previously described, the Project would implement a wide array of Project features that would increase energy efficiency and reduce energy consumption, overall. See the list of Project features listed within the *Project Sustainability Features* discussion, above.

CONCLUSION

The proposed Project would use energy resources for the operation of Project buildings (natural gas and electricity), outdoor lighting (electricity), on-road vehicle trips (e.g. gasoline and diesel fuel) generated by the proposed Project, and off-road and on-road construction activities associated with the proposed Project (e.g. diesel fuel). Each of these activities would require the use of energy resources. The proposed Project would be responsible for conserving energy, including through Project sustainability features, the mitigation measures provided throughout this EIR, as well as through the implementation of statewide and local measures.

The proposed Project would comply with all applicable federal, State, and local regulations regulating energy usage. Moreover, the Project intends to supply 100 percent of its electricity demand from renewable sources associated with a combination of onsite generation and direct source renewable purchased energy. Specifically, the Project applicant has entered into direct source renewable purchase contracts sufficient to supply these needs. Other statewide measures, including those intended to improve the energy efficiency of the statewide passenger and heavyduty truck vehicle fleet (e.g. the Pavley Bill and the Low Carbon Fuel Standard), would improve vehicle fuel economies, thereby conserving gasoline and diesel fuel. These energy savings would continue to accrue over time. Moreover, the proposed Project would comply with the City's Sustainability Action Plan and General Plan goals, objectives and policies related to energy conservation that are relevant to this analysis.

The proposed Project would comply with all existing energy standards and would not be expected to result in significant adverse impacts on energy resources. For these reasons, the proposed Project would not cause an inefficient, wasteful, or unnecessary use of energy resources nor cause a significant impact on any of the energy-related thresholds as described by the *CEQA Guidelines*. This is a *less than significant* impact.

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The California Environmental Quality Act (CEQA) requires an Environmental Impact Report (EIR) to evaluate a project's effects in relationship to broader changes occurring, or that are foreseeable to occur, in the surrounding environment. Accordingly, this chapter presents a discussion of CEQA-mandated analysis for cumulative impacts, significant irreversible effects, significant and unavoidable impacts, and growth-inducing impacts associated with the proposed Project.

4.1 CUMULATIVE CONTEXT IMPACT ANALYSIS

INTRODUCTION

CEQA requires that an EIR contain an assessment of the cumulative impacts that could be associated with the proposed Project. According to CEQA Guidelines Section 15130(a), "an EIR shall discuss cumulative impacts of a project when the project's incremental effect is cumulatively considerable." "Cumulatively considerable" means that the incremental effects of an individual project are considerable when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of probable future projects (as defined by Section 15130). As defined in CEQA Guidelines Section 15355, a cumulative impact consists of an impact that is created as a result of the combination of the project evaluated in the EIR together with other projects causing related impacts. A cumulative impact occurs from:

...the change in the environment which results from the incremental impact of the project when added to other closely related past, present, and reasonably foreseeable future projects. Cumulative impacts can result from individually minor but collectively significant projects taking place over a period of time.

In addition, Section 15130(b) identifies that the following three elements are necessary for an adequate cumulative analysis:

1) Either:

- (A) A list of past, present, and probable future projects producing related or cumulative impacts, including, if necessary, those projects outside the control of the agency; or,
- (B) A summary of projections contained in an adopted general plan or related planning document, or in a prior environmental document which has been adopted or certified, which described or evaluated regional or area wide conditions contributing to the cumulative impact. Any such planning document shall be referenced and made available to the public at a location specified by the lead agency.
- 2) A summary of the expected environmental effects to be produced by those projects with specific reference to additional information stating where that information is available; and

3) A reasonable analysis of the cumulative impacts of the relevant projects. An EIR shall examine reasonable, feasible options for mitigating or avoiding the project's contribution to any significant cumulative effects.

Where a lead agency is examining a project with an incremental effect that is not "cumulatively considerable," a lead agency need not consider that effect significant, but shall briefly describe its basis for concluding that the incremental effect is not cumulatively considerable.

This cumulative impacts analysis uses a summary of projections listed in the San Joaquin Council of Governments (SJCOG) Regional Transportation Plan/Sustainable Communities Strategy (RTP/SCS) and Department of Finance statistics, as allowed by Section 15130(b)(1)(B) of the CEQA Guidelines. Table 4.0-1 shows the growth projections.

TABLE 4.0-1: GROWTH PROJECTIONS

CALENDAR	ESTIMATED POPULATION	ESTIMATED POPULATION	ESTIMATED POPULATION
YEAR	(Tracy)	(SAN JOAQUIN COUNTY)	(CALIFORNIA)
2020	95,040	775,819	40,619,346
2025	102,236	829,426	42,373,301
2030	109,492	883,484	44,085,600
2035	118,130	947,835	45,747,645
2040	127,933	1,020,862	47,233,240

SOURCES: CALIFORNIA DEPARTMENT OF FINANCE (2020), SJCOG 2018 RTP/SCS (2018).

In addition to those cumulative growth projections listed above, this EIR uses a list of past, present, and probable future projects within the City of Tracy to ensure that the cumulative growth within the City is not underestimated. The approved and/or pending projects are listed in the City's Residential Pipelines Report and Industrial and Commercial Pipeline Report (October 2023)¹. In this way, the analysis employs a conservative hybrid approach under Section 15130(b)(1) of the CEQA Guidelines.

CUMULATIVE EFFECTS OF THE PROJECT

The cumulative context is identified under each cumulative impact analysis. The geographic context varies among topical impact areas vary because the geographic area that the impact may affect is different. For example, noise impacts generally only impact the local surrounding area because noise travels a relatively short distance while air quality impacts affect the whole air basin as wind currents control air flow and are not generally affected by natural or manmade barriers which would affect noise. Cumulative Project impacts are addressed and summarized below.

Method of Analysis

Although the environmental effects of an individual project may not be significant when that project is considered separately, the combined effects of several projects may be significant when considered collectively. CEQA Guidelines Section 15130 requires a reasonable analysis of a project's

¹ Available at: https://www.cityoftracy.org/our-city/departments/planning

cumulative impacts, which are defined as "two or more individual effects which, when considered together are considerable or which compound or increase other environmental impacts." The cumulative impact that results from several closely related projects is: the change in the environment which results from the incremental impact of the project when added to other closely related past, present, and reasonably foreseeable probable future projects. Cumulative impacts can result from individually minor but collectively significant projects taking place over a period of time (CEQA Guidelines 15355[b]). Cumulative impact analysis may be less detailed than the analysis of the project's individual effects (CEQA Guidelines 15130[b]). Where the cumulative effect of this Project plus other future projects represents a significant impact, then this Project's contribution to that overall cumulative impact is considered to evaluate whether this Project's incremental impact is "cumulatively considerable" and thus considered to be a significant effect associated with the Project.

Project Assumptions

The proposed Project's contribution to environmental impacts under cumulative conditions is based on development of the Project site consistent with the development assumptions identified in Chapter 2.0, Project Description. See Chapter 2.0, Project Description, for a complete description of the proposed Project.

Cumulative Impacts

Some cumulative impacts for issue areas are not quantifiable and are therefore discussed in general terms as they pertain to development patterns in the surrounding region. Exceptions to this are utilities, noise, greenhouse gases, and air quality (the latter three of which are associated with traffic volumes and operations associated with the proposed land uses), which may be quantified by estimating future traffic patterns, pollutant emitters, etc. and determining the combined effects that may result. The proposed Project may result in the following cumulative impacts.

AESTHETICS AND VISUAL RESOURCES

The cumulative context for aesthetics is the City of Tracy and surrounding areas of San Joaquin County.

Impact 4.1: Cumulative Damage to Scenic Resources within a State Scenic Highway (Less than Significant)

As described in Section 3.1, Aesthetics and Visual Resources, one highway section in San Joaquin County is listed as a Designated Scenic Highway by the Caltrans Scenic Highway Mapping System; the segment of Interstate 580 (I-580) from Interstate 5 to Interstate 205. This route traverses the edge of the Coast Range to the west and Central Valley to the east. This Designated Scenic Highway is located approximately 0.65 miles southwest of the Project site. The views from I-580 to the Project site are limited because of small hills, commercial buildings along I-580, and high speeds of travel. However, new development proposed by the Project in the viewsheds would have the potential to adversely affect a State-designated route.

Cumulative development in the city would not impact a State Scenic Highway. As such, impacts relative to scenic resources -would be a *less than significant*.

Impact 4.2: Cumulative Degradation of the Existing Visual Character of the Region (Significant and Unavoidable and Cumulatively Considerable)

Project implementation would introduce industrial uses, as well as supporting infrastructure into an area that is currently undeveloped and is primarily occupied by agricultural uses. The proposed Project would include visual components that would assist in enhancing the appearance of the site following site development. Landscaping improvements, such as new street trees and other vegetation landscaping, would be provided throughout the Project site, including along the site boundary. The landscape design and plant palette would complement the existing street and building/development landscape character established by Prologis and the International Park of Commerce providing visual relief from the proposed improvements. Additionally, the proposed Project would also include landscaping buffer zones, pursuant to General Plan Policy OSC-2.2-P1, at the interface of urban development and farmland in order to minimize conflicts between the uses and provide a visual shield. Nevertheless, impacts related to degradation of the visual character of the site would be significant and unavoidable.

There would be two significant unavoidable visual quality impacts under the proposed General Plan for the Tracy Planning Area and under cumulative conditions in the region as a whole. Despite policies in the proposed General Plan policies to preserve open space and agricultural lands and community character, policies in the San Joaquin County Multi-Species Habitat Conservation and Open Space Plan (SJMSCP) and the City's Agricultural Mitigation Fee Ordinance, development occurring within the City and its Sphere of Influence would result in a change in visual character from an agricultural appearance to a more urban appearance.

Under cumulative conditions, buildout of the General Plans for Tracy and the surrounding jurisdictions could result in changes to the visual character and quality of the City of Tracy through development of undeveloped areas and/or changes to the character of existing communities. Development of the proposed Project, in addition to other future projects in the area, would change the existing visual and scenic qualities of the City. It is noted that although the Project site is undeveloped and was previously used for agricultural uses, the General Plan designates the site for Industrial uses. Additionally, the surrounding areas to the north, east, south, and west are designated for urban uses (including mainly Industrial uses) by the General Plan. As such, the General Plan and associated EIR anticipated development of the Project area for similar uses as proposed by the Project.

Development within the City would be required to be consistent with the General Plan policies and City Municipal Code, both of which cover aesthetics and visual characteristics. Further, the Municipal Code contains development standards that address the visual character of a development project, such as building height, massing, setbacks, lighting, and landscaping. Although implementation of these requirements would reduce the impacts associated with development, the impacts would remain significant and unavoidable. As such, this is a *significant and unavoidable* impact, and the Project's contribution to this impact would be *cumulatively considerable*.

Impact 4.3: Cumulative Impact on Light and Glare (Less than Significant)

Implementation of the proposed Project would introduce new sources of light and glare into the vacant Project site. Compliance with the lighting plan required by Mitigation Measure 3.1-1 would ensure that the Project's proposed lighting is reviewed by the Tracy Public Works Department for compliance with street light and light illumination standards to ensure the Project is properly shielding and protecting against light spillover onto adjacent properties. Adherence to City of Tracy Standard Plan #140 and Section 7.28.070 10.08.400 of the Municipal Code of the City Municipal Code would ensure that excessively reflective building materials are not used, and that the proposed Project would not result in significant impacts related to daytime glare.

Future projects within Tracy, Lathrop, and San Joaquin County would be subject to the light and glare standards established by the individual jurisdictions. These regulations are designed to minimize potential light and glare impacts of new development. Implementation of these regulations would ensure that future projects minimize their potential light and glare impacts resulting in a *less than significant* cumulative impact relative to this environmental topic.

AGRICULTURAL RESOURCES

The cumulative context for agriculture and forest resources is all of San Joaquin County. According to the Department of Conservation, the County had 784,800 acres of crop land in 2018, the majority of which is identified as Prime Farmland. The remaining agricultural land is comprised of Farmland of Statewide Importance (11 percent), Unique Farmland (11 percent), Farmland of Local Importance (9 percent), and Grazing Land (18 percent).

Impact 4.4: Cumulative Impact on Agricultural Resources (Significant and *Unavoidable and Cumulatively Considerable)*

As described in Section 3.2, Agricultural Resources, development of the proposed Project would result in a permanent conversion of 101.78 acres of Prime Farmland to non-agricultural use. The loss of Important Farmland as classified under the California Department of Conservation Farmland Mapping and Monitoring Program (FMMP) is considered a potentially significant environmental impact.

Tracy Municipal Code Chapter 13.28 establishes the City's Agricultural Mitigation Fee Program, which authorizes the collection of development impact fees to offset costs associated with the loss of productive agricultural lands converted for private urban uses. In addition to the City's agricultural mitigation fee program, the SJMSCP requires development to pay fees on a per-acre basis for impacts to agricultural lands that function as habitat for biological resources. SJCOG will then use these funds to purchase the conservation easements on agricultural and habitat lands in the Project vicinity. The compensation results in the purchase of conservation easements that are placed over agricultural land. As such, the Project fees paid to SJCOG as administrator of the SJMSCP will result in the preservation of agricultural lands in perpetuity.

The purchase of conservation easements and/or deed restrictions through the City's agricultural mitigation fee program and the SJMSCP allows the landowners to retain ownership of the land and continue agricultural operations, and preserves such lands in perpetuity. Future projects would be subject to the City's agricultural mitigation fee program and the SJMSCP.

While the proposed Project, as well as future projects in the City and County, will contribute fees toward the purchase of conservation easements on agricultural lands, as required by Mitigation Measure 3.2-1, those fees and conservation easements would not result in the creation of new farmland to offset the loss that would occur with Project implementation. As such, the loss of Important Farmland would be a *significant and unavoidable* impact. The Project's contribution to this significant impact would be *cumulatively considerable*.

AIR QUALITY

The cumulative context for air quality impacts is the San Joaquin Valley Air Basin (SJVAB), which consists of eight counties, stretching from Kern County in the south to San Joaquin County in the north. The SJVAB is bounded by the Sierra Nevada in the east, the Coast Ranges in the west, and the Tehachapi mountains in the south.

Impact 4.5: Cumulative Impact on the Region's Air Quality (Significant and Unavoidable and Cumulatively Considerable)

Under buildout conditions in the San Joaquin County, the SJVAB would continue to experience increases in criteria pollutants and efforts to improve air quality throughout the basin would be hindered. As described in Section 3.3, San Joaquin County has a state designation of Nonattainment for ozone, PM_{10} and $PM_{2.5}$. Table 3.3-2 in Section 3.3 presents the State and Federal attainment status for San Joaquin County.

As discussed under Impact 3.3-1 in Section 3.3, operational emissions would exceed the SJVACPD thresholds of significance for NOx and CO. It should be noted that there are not separate cumulative criteria pollutant emissions thresholds; rather, the project-level criteria pollutant emissions thresholds were designed by SJVAPCD to simultaneously determine impacts associated at both the individual project as well as cumulative level. Therefore, the proposed Project is required to implement feasible mitigation measures aimed to reduce criteria pollutant emissions. Mitigation Measure 3.3-1 was established to reduce emissions to the extent feasible. Mitigation Measure 3.3-1 would require all phases of the proposed project to use a "clean truck fleet" that meets a performance standard of 0.02 gram of NOx per brake horsepower-hour for all heavy-heavy-duty (HHD) trucks during project operation. Mitigation Measure 3.3-1 requires operators of heavy-duty trucks that travel to and from the Project site to use trucks that have 2010 model year or newer engines that meet the CARB's 2010 engine emission standards of 0.01 g/bhp-hr for particulate matter (PM) and 0.20 g/bhp-hr of NOx emissions, or newer, cleaner trucks and equipment.

However, NOx emissions generated by the proposed Project during operation would exceed applicable threshold for tons per year after compliance with all rules and regulations, and even after implementation of Mitigation Measure 3.3-1. No other feasible mitigation measure exists to reduce the applicable operational criteria pollutant impacts to below the applicable SJVAPCD threshold. There are no further mitigation measures identified and thus Table 3.3-13 and Table 3.3-14 provide a conservative estimate of the operational emissions results for the proposed Project, inclusive of

quantified Project sustainability features. Because the operational emissions shown therein would exceed the SJVAPCD's significance thresholds for CO and NOx, the impact would remain *significant and unavoidable*.

Additionally, as discussed in Impact 3.3-3 of Section 3.3, a health risk analysis has been prepared for the proposed Project to analyze the potential health risks associated with increased trucks to the Project site and surrounding roadways associated with the development and operation of the proposed industrial and commercial uses. The source of TACs for this type of Project can be attributed to diesel exhaust from the trucks. As shown in Table 3.3-15 in Section 3.3, the proposed Project, in and of itself, would not result in a significant increased exposure of receptors to localized concentrations of TACs. Risk of residential cancer risk, workplace cancer risk, and chronic and acute non-cancer risks are below the applicable SJVAPCD thresholds. Furthermore, as described in the SJVAPCD's *Guidance for Assessing and Mitigating Air Quality Impacts*, impacts from hazardous air pollutants are localized impacts. The SJVAPCD has established thresholds of significance for TACs that are extremely conservative and protective of health impacts on sensitive receptors. Because impacts from TACs are localized and the thresholds of significance for TACs have been established at such a conservative level, risks below the individual thresholds of significance are also considered less than cumulatively significant, and no other cumulative risk thresholds apply.

The increase in industrial and commercial/office square footage anticipated with buildout of the Project is consistent with growth projections assumed in the Tracy General Plan for the same time horizon. While the proposed Project, as well as future projects in the City and County, would be subject to the requirements of the SJVAPCD, even with the application of the mitigation measures included in Section 3.3, emissions levels would remain above the current defined SJVAPCD criteria pollutant thresholds of significance for NOx and CO during Project operation. As such, cumulative impacts on the region's air quality would be a *significant and unavoidable* impact. The Project's contribution to this significant impact would be *cumulatively considerable*.

BIOLOGICAL RESOURCES

The cumulative context for biological resources includes the Project site and the greater San Joaquin County region. Development associated with implementation of the local General Plan(s) would contribute to the ongoing loss of natural and agricultural lands in San Joaquin County, including the Project site. Cumulative development would result in the conversion of existing habitat to urban uses. The local General Plan(s), in addition to regional, State and federal regulations, includes policies and measures that mitigate impacts to biological resources associated with General Plan buildout. Additionally, local land use authorities in San Joaquin County require development to participate in the SJMSCP, which is a habitat conservation plan and natural community conservation plan for San Joaquin County that provides a mechanism for compensatory mitigation for habitat and species loss in accordance with federal and State laws.

Impact 4.6: Cumulative Loss of Biological Resources Including Habitats and Special Status Species (Less than Significant)

Under cumulative conditions, buildout of the General Plan(s) within San Joaquin County will result in impacts to biological resources associated with new development. The General Plan(s) includes

policies that are designed to minimize impacts to the extent feasible and the SJMSCP has been established to provide a mechanism for compensatory mitigation and standardized avoidance and minimization measures as needed.

As described in Section 3.4 Biological Resources, construction in the Project site has the potential to result in impacts to special-status species in the region. The California Natural Diversity Database (CNDDB) currently contains records for California red-legged frog, San Joaquin kit fox, big tarplant, caper-fruited tropidocarpum, burrowing owl, and tricolored blackbird in the vicinity of the Project site. The Project site provides potential habitat for several species, including those discussed in Section 3.4.

Mitigation Measure 3.4-1 requires participation with the SJMSCP, which includes the payment of fees that will be used to purchase conservation lands for a variety of special status species. The SJMSCP was created and adopted and addresses both the Project and cumulative impacts to biological resources, including special status species. The proposed Project will participate in the SJMSCP, including payment of fees and implementation of all Incidental Take Minimization Measures required by the SJCOG through the authorization of SJMSCP coverage.

The ongoing operational phase of the proposed Project requires discharge of stormwater into the City storm drainage system, which ultimately discharges into the Delta. The discharge of stormwater could result in indirect impacts to special status fish and wildlife if stormwater was not appropriately treated through BMPs prior to its discharge to the Delta. The Project is subject to the requirements of Chapter 11.34 of the Tracy Municipal Code – Stormwater Management and Discharge Control. This chapter is intended to assist in the protection and enhancement of the water quality of watercourses, water bodies, and wetlands in a manner pursuant to and consistent with the Federal Water Pollution Control Act (Clean Water Act, 33 USC Section 1251 et seq.), Porter- Cologne Water Quality Control Act (California Water Code Section 13000 et seq.) and National Pollutant Discharge Elimination System ("NPDES") Permit No. CAS000004, as such permit is amended and/or renewed. The management of water quality through BMPs is intended to ensure that water quality does not degrade to levels that would interfere or impede fish or wildlife.

The Project would result in impacts to biological resources including habitats and special status species. The City has evaluated urban development in the Project area through the General Plan process, and subsequently determined that urban development in this location is appropriate. The proposed project, when considered alongside all past, present, and probable future projects (inclusive of buildout of the various General Plans within San Joaquin County), would not be expected to cause any significant cumulative impacts. Implementation of the regulations contained in the SJMPSCP and the various General Plans within San Joaquin County would ensure that future projects minimize their potential biological resources. For these reasons, cumulative impacts on the loss of biological resources are *less than significant*.

CULTURAL AND TRIBAL RESOURCES

The geography of cultural resources impacts can be defined by region, by political subdivision or by the geography of the cultural resources present in an area, where sufficient inventory data is available to define it. The cumulative context for cultural resources includes all of the San Joaquin County. There are extensive cultural sites located in the region.

Impact 4.7: Cumulative Impacts on Known and Undiscovered Cultural and Tribal Resources (Less than Significant)

Cumulative development anticipated in the City of Tracy, including growth projected by adopted future projects, may result in the discovery and removal of cultural resources, including archaeological, paleontological, historical, and Native American resources and human remains. As discussed in Section 3.5, Cultural and Tribal Resources, the Project site does not contain buildings or structures. A California Historic Resources Information System (CHRIS) search was requested from the Central California Information Center (CCIC), which included the Project area and a one-half mile radius (CCIC File #11244L). The results of the CCIC records search indicated that the Project site does not contain any recorded buildings or structures listed on the State Office of Historic Preservation Historic Property Directory (which includes listings of the California Register of Historic Resources, California State Historical Landmarks, California State Points of Historical Interest, and the NRHP). The records search also noted that the General Land Office Survey Plat does not reference any historic features in the Project area.

Any previously unknown cultural resources which may be discovered during development of the proposed Project would be required to be preserved, either through preservation in place, excavation, documentation, curation, data recovery, or other appropriate measures. With implementation of the mitigation measures provided in Section 3.5, the proposed Project is not anticipated to considerably contribute to a significant reduction in cultural resources in the region.

All future projects in the regional vicinity would be subject to their respective General Plans (i.e., City of Tracy, City of Lathrop, and San Joaquin County), each of which have policies and measures that are designed to ensure protection of undiscovered cultural resources. In addition, all discretionary projects in these jurisdictions would require environmental review per regulations established in CEQA. As such, impacts related to cultural resources would result in a *less than significant*.

GEOLOGY AND SOILS

Impacts related to geology and soils are not inherently cumulative. Geology and soils concerns are related to risks, hazards or development constraints that are largely site-specific. However, seismic hazards are regional, and management of seismic hazards is vested with the local planning and building authority. For these reasons, the potential for cumulative geology and soils impacts are considered in the context of the City of Tracy and vicinity.

Impact 4.8: Cumulative Impact on Geologic and Soils Resources (Less than Significant)

As discussed in Section 3.6, Geology and Soils, a Geotechnical Review was prepared to review readily-available geotechnical and geologic information in order to identify potential geotechnical-related risks associated with the Project site. According to the Geotechnical Review, the proposed Project is geotechnically feasible and concerns related to ground rupture, ground shaking,

liquefication, or landslides were not identified; refer to the discussion below regarding expansive soils. However, mitigation measures provided in Section 3.6 ensure impacts related to soil hazards will be less than significant.

Additionally, the nearest earthquake fault zoned as active by the CGS is the Black Butte Fault, located approximately 1.1 miles to the south of the Project site. However, this fault is not considered an active fault that would trigger evaluation under the Alquist-Priolo Earthquake Fault Zoning Act. While the City is not within an area known for its seismic activity, there will always be a potential for groundshaking caused by seismic activity anywhere in California, including the Project site. In order to minimize potential damage to the buildings and site improvements, all construction in California is required to be designed in accordance with the latest seismic design standards of the California Building Code. Additionally, the Project would be required to comply with Mitigation Measure 3.6-1, which requires a final geotechnical evaluation be prepared and design recommendations identified to address any soil conditions within the Project site. Design in accordance with the Building Code and final geotechnical evaluation would reduce any potential impact to a less than significant level.

Geologic and soils impacts tend to be site-specific and Project-specific. With the mitigation measure presented in Section 3.6, implementation of the proposed Project would not result in increased risks or hazards related to geologic conditions in the cumulative area, nor would it result in any off-site or indirect impacts. Overall, impacts related to geologic and soil resources would result in a *less than significant*.

GREENHOUSE GASES, CLIMATE CHANGE AND ENERGY

As the California Supreme Court has reasoned, "because of the global scale of climate change, any one project's contribution is unlikely to be significant by itself. The challenge for CEQA purposes is to determine whether the impact of the project's emissions of greenhouse gases is cumulatively considerable, in the sense that 'the incremental effects of [the] individual project are considerable when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of probable future projects." (Center for Biological Diversity v. California Department of Fish and Wildlife (2015) 62 Cal.4th 204, 219.) "'With respect to climate change, an individual project's emissions will most likely not have any appreciable impact on the global problem by themselves, but they will contribute to the significant cumulative impact caused by greenhouse gas emissions from other sources around the globe. The question therefore becomes whether the project's incremental addition of greenhouse gases is "cumulatively considerable" in light of the global problem, and thus significant.'" (Ibid.)

The cumulative context for greenhouse gas (GHG) emissions and climate change impacts for this analysis is the State of California, to ensure consistency with the State's climate change goals.

Impact 4.9: Cumulative Impact on Climate Change from Increased Project-Related Greenhouse Gas Emissions (Less than Significant)

GHG emissions from a single Project will not cause global climate change; however, GHG emissions from multiple projects throughout a region or state could result in a cumulative impact with respect

to global climate change. It should be noted that, since greenhouse gas emissions are inherently global in nature, the greenhouse gas emissions analysis provided in Chapter 3.7: Greenhouse Gases, Climate Change, and Energy also represents a cumulative analysis for greenhouse gases.

As presented in Table 3.7-2 in Section 3.7, short-term construction emissions of GHGs are estimated at a maximum of approximately 4,254 metric tons of carbon dioxide equivalents (MTCO₂e) per year, during the maximum year. As shown in Table 3.7-3, the annual operational emissions of GHGs associated with the proposed Project would be approximately 25,134 MT CO_2e .

The proposed Project would be consistent with relevant plans, policies, and regulations associated with GHGs, notably the most recent version of the CARB's Scoping Plan, and the SJCOG's 2022 RTP/SCS. This would ensure that the proposed Project would be consistent with the State's carbon neutrality standard by year 2045 as established under AB 1279. Taking into account the proposed Project's emissions, and the progress being made by the State toward reducing emissions in key sectors such as transportation, industry, and electricity, the Project would be consistent with State GHG Plans and would not impede the State's goals of reducing GHG emissions 40 percent below 1990 levels by 2030, and carbon neutrality by 2045. The proposed Project would make a reasonable fair share contribution to the State's GHG reduction goals. Therefore, a *less than significant* cumulative impact relative to GHGs would result.

Furthermore, with regard to Project energy consumption, the proposed Project includes various characteristics that reduce the inefficient, wasteful, or unnecessary use of energy. Overall, a wide variety of additional Project features would be implemented that would substantially reduce energy emissions (see the list of Project features listed within the *Project Sustainability Features* discussion, above). For example, beyond simply complying with State requirements such as the energy efficiency requirements of the latest version of the California Title 24 Energy Efficiency Standards, the Project would exceed the Title 24 Building Envelope Energy Efficiency Standards by at least 1% and all appliances to be installed will meet or exceed Title 24 requirements.

The Project is also anticipated to produce approximately 3 MW of solar photovoltaic (PV) for on-site use. Furthermore, to the extent they do not conflict with the proposed rooftop solar PV panels, all building roofs would maintain a reflectance rating of .68, emittance of .25 and Solar Reflectance Index of 63, lessening heat gain. Further, HVAC comfort systems would be controlled by a computerized building management system to maximize efficiency.

Moreover, it should be noted that, over time, electrification of the vehicles will increase due to state requirements, and state and national trends. Electric charging infrastructure would be installed on the property to facilitate the conversion of the truck fleet to zero-emission electric trucks as they become available in the market and used for truck deliveries to and from the facility.

Furthermore, the proposed Project includes a Transportation Demand Management (TDM) strategy for passenger vehicles, as described under Mitigation Measure 3.13-1 (see Section 3.13: Transportation and Circulation of the Draft EIR, for further detail).

The amount of energy used by the proposed Project during operation would include the amount of energy used by Project buildings and outdoor lighting, and the fuel used by vehicle trips generated during Project construction and operation, fuel used by off-road construction vehicles during construction activities, and fuel used by Project maintenance activities during Project operation. The following discussion provides a detailed calculation of energy usage expected for the proposed Project, as provided by applicable modelling software (i.e. CalEEMod v2022.1) and the CARB EMFAC2021). Additional assumptions and calculations are provided within Appendix B.2 of this EIR. The proposed Project would not be expected to result in significant adverse impacts on energy resources. For these reasons, the proposed Project would not cause an inefficient, wasteful, or unnecessary use of energy resources nor cause a significant impact on any of the energy-related thresholds as described by the *CEQA Guidelines*. Therefore, a *less than significant* cumulative impact relative to energy would result.

Overall, impacts related to greenhouse gases, climate change, and energy would result in a *less than significant* cumulative impact.

HAZARDS AND HAZARDOUS MATERIALS

The cumulative context for the analysis of cumulative hazards and human health impacts is San Joaquin County, including all cumulative growth therein, as represented by full implementation of each respective General Plan (i.e., Stockton, Lathrop, and San Joaquin County). As discussed in Section 3.8, Hazards and Hazardous Materials, implementation of the proposed Project would not result in any significant impacts related to this environmental topic with the implementation of the mitigation measures provided in Section 3.8.

Impact 4.10: Cumulative Impact Related to Hazards and Hazardous Materials (Less than Significant)

The Project is not proposing the use of any hazardous materials. In the event that hazardous materials are discovered during construction, a Soils Management Plan (SMP) will need to be submitted and approved by the San Joaquin County Department of Environmental Health, as required by Mitigation Measure 3.8-1. Any operations that involve the use of hazardous materials would be required to have the hazardous material transported, stored, used, and disposed of in compliance with local, state, and federal regulations. To further ensure the safety of employees, and reduce the potential for accidental release of hazardous materials into the environment, the applicant must submit a HMBP to San Joaquin County Department of Environmental Health (CUPA) for review and approval prior to bringing hazardous materials onsite, as required by Mitigation Measure 3.8-2.

As part of the Phase I ESA (see Appendix D), a limited Phase II ESA was conducted to determine if chemicals of potential concern associated with the historical agricultural uses at the Project site are present in shallow soil at concentrations that would pose a threat to human health. Soil samples were collected pursuant to the Department of Toxic Substances Control (DTSC) Interim Guidance for Sampling Agricultural Properties (Third Revision) and were analyzed for organochlorine pesticides (OCPs) using US Environmental Protection Agency (EPA) Method 8081A and arsenic using US EPA Method 6010B. The soil sample analytical results indicated that OCPs were not present above

laboratory detection limits in shallow soils at the site and arsenic concentrations ranged from 2.3 milligrams per kilogram (mg/kg) to 4.3 mg/kg. Arsenic concentrations did not exceed the arsenic California Code of Regulations (CCR) Title 22 Total Threshold Limit Concentration of 500 mg/kg, 10 times the arsenic CCR Title 22 Soluble Threshold Limit Concentration value of 5 milligrams per liter (mg/L) (50 mg/kg), or 20 times the arsenic Federal Toxicity Characteristic Leaching Procedure threshold of 5 mg/L (100 mg/kg). Therefore, arsenic concentrations at the Site do not exceed thresholds that would classify soils as Federal or California hazardous wastes.

Additionally, Crimson Oil operates a crude oil pipeline beneath the Project site and PG&E operates two natural gas pipelines, which both run across the northeastern portion of the Project site. While the *Phase I ESA* notes no incidental/accidental releases in the Project vicinity have been reported along the pipelines to date, the presence of natural gas pipelines and the potential for undocumented leaks to occur from the crude oil pipeline represents a Recognized Environmental Condition (REC). Undocumented leaks that could occur on-site would result in the release of hazardous materials into the environment contaminating the site and potentially exposing employees and the public to hazardous materials. The *Phase I ESA* notes that Crimson Pipeline, L.P. (or the current pipeline operator at the time of the leak) would be responsible for subsurface contamination as a result of leaks from this pipeline; therefore, the site cleanup from the subsurface contamination would be the responsibility of Crimson Pipeline, L.P. (or the current pipeline operator at the time of the leak). Mitigation Measure 3.8-3 would require the Project applicant to notify the San Joaquin County Department of Environmental Health in the event that contaminates are found on the Site, who would facilitate the site cleanup.

The proposed Project, in conjunction with cumulative development in the region, would include areas designated for a variety of urban, agricultural, and open space uses as defined by the City's General Plan. Cumulative development would include continued operation of, or development of, new facilities as allowed under each land use designation. New development would inevitably increase the use of hazardous materials within the region, resulting in potential health and safety effects related to hazardous materials use. For the most part, potential impacts associated with new and future development would be confined to commercial and industrial areas and would not involve the use of hazardous substances in large quantities or that would be particularly hazardous. Incidents, if any, would typically be site specific and would involve accidental spills or inadvertent releases. Associated health and safety risks would generally be limited to those individuals using the materials or to persons in the immediate vicinity of the materials and would not combine with similar effects elsewhere (i.e., construction workers), as hazard-related impacts tend to be site-specific and Project-specific.

Implementation of the proposed Project, in combination with and past, present, and probable future projects, would not result in significant increased risks of hazards in the cumulative area, nor would it result in any significant off-site or indirect impacts. Mitigation measures have been included to reduce the risk of on-site hazards associated with the use of on-site hazardous materials. For these reasons, cumulative impacts associated with hazards and hazardous materials would be *less than significant*.

HYDROLOGY AND WATER QUALITY

Potential cumulative issues associated with surface waters can be addressed on a watershed basis, or in the case of groundwater, in the context of a groundwater basin. Because water resources are highly interconnected, the cumulative context is based on San Joaquin County which is located in the San Joaquin River Hydrological Region. Cumulative development in this region, including the proposed Project, would impact the water quality and hydrological features of the San Joaquin River Hydrologic Region. The City of Tracy and much of the surrounding area is located in the San Joaquin Valley Groundwater Basin. This groundwater subbasin covers approximately 345,000 acres in San Joaquin and Alameda counties, primarily between the eastern extent of the Coast Ranges on the south and the San Joaquin River on the east. Any matter that may affect water quality draining from the Project site will eventually end up in the Delta or within the groundwater basin.

Impact 4.11: Cumulative Increases in Peak Stormwater Runoff from the Project site (Less than Significant)

Implementation of the proposed Project would increase the amount of impervious surfaces in the Project site, which could increase peak stormwater runoff rates and volumes on and downstream of the Project site. However, the proposed Project includes an extensive system of on-site stormwater collection facilities to accommodate the increased stormwater flows that would originate in the Project site.

The Project site includes seven drainage areas: Area 1 (12.07 acres located along the western boundary of the site), Area 2 (36.50 acres located in the center of the site), Area 3 (2.46 acres located along the northwestern boundary of the site), Area 4 (2.00 acres located along the northern boundary of the site) Area 5 (34.26 acres located in the eastern portion of the site), Area 6 (1.64 acres located along the northern boundary of the site), and Area 7 (5.68 acres located along the eastern boundary of the site). Stormwater runoff from each of the seven drainage areas would be routed to a series of stormwater treatment/detention basins and stormwater bioretention treatment planters, located throughout the Project site, mainly in the proposed landscaped areas and along West Schulte Road.

The overall design of the drainage infrastructure, including the proposed detention basins, will be required to comply with the Multi-Agency Post Construction Stormwater Standards Manual, which includes existing and enhanced program control measures for controlling the discharge of pollutants to the municipal storm drain system to the maximum extent practicable (MEP). Additionally, the Multi-Agency Post Construction Stormwater Standards Manual requires new development to employ low impact development (LID) approaches that conserve natural areas and reduce impervious areas. The term LID means a storm water management and land development strategy that emphasizes conservation and the use of on-site natural features integrated with engineered, small-scale hydrologic controls to more closely reflect predevelopment hydrologic functions. The Project would be required to integrate LID measures throughout the Project site to provide stormwater quality treatment. As such, BMPs would be applied to the proposed development to limit the concentrations of constituents in any site runoff to acceptable levels. Stormwater flows from the Project site would be directed to the proposed stormwater treatment basins, treatment planters, and bioretention areas by a new stormwater conveyance system on the Project site.

Stormwater runoff would not be allowed to discharge directly to the existing storm drains in West Schulte Road without first discharging to the bioretention areas. The landscaping plan includes stormwater treatment plantings in the treatment/detention basins. Additionally, erosion and sediment control measures would be implemented during construction.

According to the Multi-Agency Post Construction Stormwater Standards Manual, the Project is considered a Hydromodification Management Project as it would result in the development of one acre or more of impervious surface. Hydromodification Management Projects are required to prepare and submit a Project Stormwater Quality Control Plan that demonstrates the Project incorporates site design measures, landscape features, and engineered treatment facilities (typically bioretention facilities) that will minimize imperviousness, retain or detain stormwater, slow runoff rates, and reduce pollutants in post-development runoff. In particular, the Project Stormwater Quality Control Plan will need to specify BMPs the Project will use and design specifications for selected BMPs. The Project Stormwater Quality Control Plan must be submitted for review and approval by the City of Tracy, as required by Mitigation Measure 3.9-2. Implementation of Mitigation Measure 3.9-2 would require the Project to be consistent with regulatory requirements.

The same is true of other foreseeable development in the City, which would similarly be bound to comply with strict federal, state, and local laws and regulations. For example, present and probable future development projects in the City would be required to comply with the City's stormwater runoff regulations, including but not limited to those found in the Multi-Agency Post Construction Stormwater Standards Manual and Municipal Code.

With the design and construction of flood control improvements, the proposed Project would not increase peak stormwater runoff. Overall, a *less than significant* cumulative impact relative to this environmental topic would occur.

Impact 4.12: Cumulative Impacts Related to Degradation of Water Quality (Less than Significant)

The proposed Project, along with several of the related projects within the City of Tracy, would ultimately discharge stormwater runoff to the nearby Delta waterways. This would potentially degrade the water quality of the system.

Construction of the proposed Project would contribute to a cumulative increase in urban pollutant loading, which could adversely affect water quality. Cumulative development in the Tracy area, including the proposed Project, would also result in increased impervious surfaces that could increase the rate and amount of runoff, thereby potentially adversely affecting existing surface water quality through increased erosion and sedimentation. The primary sources of water pollution include: runoff from roadways and parking lots; runoff from landscaping areas; non-stormwater connections to the drainage system; accidental spills; and illegal dumping. Runoff from roadway and parking lots could contain oil, grease, and heavy metals; additionally, runoff from landscaped areas could contain elevated concentrations of nutrients, fertilizers, and pesticides.

The proposed Project will be required to comply with Mitigation Measure 3.9-1 which requires the development and approval of a Stormwater Pollution Prevention Plan (SWPPP). The SWPPP will

include Best Management Practices (BMPs) to regulate stormwater quality for the Project site which will be designed in accordance with the City of Tracy's NPDES issued by the Regional Water Quality Control Board (RWQCB).

While there are no assurances that other projects in the County would incorporate the same degree or methods of treatment as the proposed Project, several of the projects within the City of Tracy would phase out existing agricultural runoff discharges from their respective sites and, similar to the proposed Project, could provide some level of water quality improvement. Also, each related Project that would discharge stormwater runoff would be required to comply with NPDES discharge permits from the RWQCB, which adjusts requirements on a case-by-case basis to avoid significant degradation of water quality. Therefore, while a greater quantity of urban runoff may be discharged to the Delta system with implementation of the related projects, because of an increase in impervious surfaces, the associated surface water quality impacts would be expected to be less than significant because of improved or similar quality of runoff compared to existing conditions.

Compliance with City and County water quality protection regulations, approval from the RWQCB, and Mitigation Measure 3.9-1 would ensure that the proposed Project minimizes impacts to surface water quality. Overall, a *less than significant* cumulative impact relative to this environmental topic would occur.

Impact 4.13: Cumulative Impacts Related to Degradation of Groundwater Supply or Recharge (Less than Significant)

The proposed Project would result in new impervious surfaces and could reduce rainwater infiltration and groundwater recharge. Infiltration rates vary depending on the overlying soil types. In general, sandy soils have higher infiltration rates and can contribute to significant amounts of ground water recharge; clay soils tend to have lower percolation potential; and impervious surfaces such as pavement significantly reduce infiltration capacity and increase surface water runoff.

As previously stated, the Project site is located in the Lower Aquifer of the Tracy Subbasin and the Tracy Subbasin is not designated as a critically overdrafted basin. Much of the groundwater recharge sources within the Lower Aquifer are limited to precipitation and perennial streams. Precipitation in the region is 13.81 inches, most of which falls between November through April. However, only a small portion of this annual rainfall infiltrates the soil and groundwater basin because of the Corcoran Clay underlaying the majority of the Lower Aquifer area. While the proposed Project would reduce the amount of pervious surfaces within the Project site, the Project site is not located within a known recharge area for the Lower Aquifer due to the presence of Corcoran clay under the Project site². Therefore, development of the Project site would not substantially interfere with groundwater recharge.

Six Groundwater Sustainability Agencies (GSAs) have formed in the Tracy Subbasin to collaboratively develop one Groundwater Sustainability Plan (GSP) for the Subbasin, including the Banta-Carbona Irrigation District, Byron-Bethany Irrigation District, San Joaquin County, City of Lathrop, City of

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² Tracy Subbasin GSAs. June 2020. Draft Tracy Subbasin Groundwater Sustainability Plan: Chapter 4 [Figure 4-33].

Tracy, and Stewart Tract. The Tracy Subbasin GSP is required to be provided to the State by January 31, 2022. A draft Groundwater Sustainability Plan was made available for public review from August 9 to September 9, 2021. The Plan was then revised to address public comments provided during the public comment period. The City of Tracy City Council adopted the Final GSP at a public hearing held on November 16, 2021. All six GSAs must adopt the Final GSP before it can be submitted to the California Department of Water Resources (DWR) for review. The Final GSP must be submitted to DWR no later than January 31, 2022. After the GSP is submitted, the GSAs will submit annual reports to DWR and update the GSP every five years.

Additionally, Mitigation Measure 3.9-1 requires the preparation of a SWPPP, and structural BMPs. The SWPPP would require the application of BMPs to effectively reduce pollutants from stormwater leaving the site, which would ensure that stormwater runoff does not adversely increase pollutant levels, and would reduce the potential for disturbed soils and ground surfaces to result in erosion and sediment discharge into adjacent surface waters during construction and operational phases of the Project. Additionally, as described under Impact 3.9-1, the Project will be required to submit a Project Stormwater Quality Control Plan (see Mitigation Measure 3.9-2) that demonstrates the Project incorporates site design measures, landscape features, and engineered treatment facilities (typically bioretention facilities) that will minimize imperviousness, retain or detain stormwater, slow runoff rates, and reduce pollutants in post-development runoff. The Project will be required to comply with Chapter 11.34 of the Tracy Municipal Code, Stormwater Management and Discharge Control, which outlines the City requirements for stormwater management and discharge control, including controlling non-stormwater discharges to the stormwater conveyance system, eliminating discharges to the stormwater conveyance system from spills, dumping or disposal of materials other than stormwater, and reducing pollutants in urban stormwater discharges to the maximum extent practicable.

For the reasons mentioned above, the proposed Project would not cause the substantial depletion of groundwater supplies or interfere substantially with groundwater recharge. Implementation of the proposed Project, in combination with past, present, and probable future projects, would have a *less than significant* impact relative to this topic.

LAND USE

The cumulative context for land use impacts is the City of Tracy.

Impact 4.14: Cumulative Impact on Communities and Local Land Uses (Less than Significant)

Cumulative land use impacts, such as the potential for conflicts with adjacent land uses and consistency with adopted plans and regulations, are typically site- and Project-specific. The land uses, as proposed, are consistent with the General Plan.

The Project site is currently within the jurisdiction of San Joaquin County. The Project site is designated as Agriculture by the County's General Plan Land Use Map and is zoned as AG-40 Agriculture by the County. The site currently has a City General Plan land use designation of Industrial (I).

Additionally, the San Joaquin County Local Agency Formation Commission (LAFCO) will require the Project site to be pre-zoned by the City of Tracy in conjunction with the proposed annexation. The City's pre-zoning will include the Light Industrial (M-1) zoning designation for Project site. The pre-zoning would go into effect upon annexation into the City of Tracy. Additionally, the Project is requesting a Conditional Use Permit to allow for food processing and canning in the proposed M-1 zoning district. The proposed pre-zoning for the Project site is shown on Figure 2.0-6 in Chapter 2.0.

This proposed zone change would ensure that zoning would be consistent with the General Plan land use designation within the Project site. The zoning ordinance establishes permitted uses, development densities and intensities, and development standards for each zone to ensure that public health, safety, and general welfare are protected, consistent with the purpose of the Zoning Code. All existing City development standards and zoning requirements for the proposed zoning are applicable to the proposed activities on the Project site. The City reviews all plans (improvement plans, building plans, site plans, etc.) that are submitted for final approval to ensure that they are consistent with the City's Zoning ordinance. Approval of the prezoning by the City would ensure that the proposed Project would be consistent with the Zoning Code.

Further, the proposed Project is consistent with LAFCo policies adopted to address environmental impacts, with the exception of impacts to agricultural lands. Section 3.2, Agricultural Resources, addresses impacts related to conversion of agricultural land.

Lastly, the proposed Project does not conflict with the implementation of the SJMSCP and has appropriate measures to ensure compliance with payment of mitigation fees.

The City will review each component of the proposed Project as plans (improvement plans, building plans, site plans, etc.) are submitted for final approval to ensure that they are consistent with the City's Zoning ordinance. Overall, the proposed Project, in combination with and past, present, and probable future projects, will have a *less than significant* impact relative to this topic.

Noise

The cumulative context for noise impacts consists of the existing and future noise sources that could affect the Project site or surrounding uses.

Impact 4.15: Cumulative Exposure of Existing Noise-Sensitive Land Uses to Increased Noise Resulting from Cumulative Development (Significant and Unavoidable and Cumulatively Considerable)

Noise generated by construction would be temporary, and would not add to the permanent noise environment or be considered as part of the cumulative context. The total noise impact of the proposed Project would be fairly small and would not be a substantial increase to the existing future noise environment. Thus, the proposed Project would result in a less-than-significant cumulative impact.

Cumulative noise impacts would occur primarily as a result of increased traffic on local roadways and on-site activities resulting from operation of the proposed Project. The primary non-transportation noise sources associated with the proposed Project are on-site parking lot circulation

and the loading docks. Table 3.11-9 in Section 3.11, Noise, shows cumulative traffic noise levels with and without the proposed Project. Additionally, operational noise levels at the existing residential receptors to the west of the site resulting from the proposed Project are quantified and shown in Figures 3.11-2 and 3.11-3. Figure 3.11-2 shows the average (L_{eq}) Project noise contours and Figure 3.11-3 shows the maximum (L_{max}) Project noise contours.

As discussed in Section 3.11, based upon Figure 3.11-3, the proposed Project is predicted to generate maximum noise levels of approximately 68 dBA L_{max} at the property line of the residential uses to the west of the Project site. This would comply with the San Joaquin County maximum noise level limits of 70 dBA L_{max} during daytime hours but would exceed the County's 65 dBA L_{max} standard during nighttime hours. In order to reduce project-related noise levels, Saxelby Acoustics used the Sound PLAN noise model to evaluate the use of noise barriers for reducing project-related noise levels at the adjacent residential uses. Figure 3.11-4 shows the exterior noise levels in terms of the peak hour average (Lea) noise level, with a 20-foot-tall acoustically absorbent screen wall located along the western boundary of the Project site. The resulting noise levels of up to 50 dBA Leq would comply with the County's 50 dBA Lea daytime standard but would still exceed the County's 45 dBA Lea nighttime noise standard. As such, a sound wall would not result in noise levels at or below the County's nighttime noise standard. Therefore, the County's exterior noise standards would still be exceeded. Because the County's exterior noise standards would still be exceeded as a result of operational noise at the Project site, the proposed Project would have a significant and unavoidable cumulative impact relative to operational noise. As such, impacts related to cumulative operational noise would result a *cumulatively considerable contribution*.

Noise generated by construction would be temporary, and would not add to the permanent noise environment or be considered as part of the cumulative context. Compliance with the City's permissible hours of construction, as well as implementing the best management noise reduction techniques and practices (both outlined in Mitigation Measure 3.11-1), would ensure that construction noise would not result in a substantial temporary increase in ambient noise levels that would result in annoyance or sleep disturbance of nearby sensitive receptors.

The proposed project, when considered alongside all past, present, and probable future projects (inclusive of buildout of the various General Plans within the County), would not be expected to cause any significant cumulative construction noise impacts. The proposed Project would not have cumulatively considerable impacts associated with construction noise. Implementation of the proposed project would have a *less than significant cumulative impact* and *less than cumulatively considerable* incremental contribution to cumulative impacts on construction noise.

The operational noise from the proposed Project is expected to produce noise levels that would exceed County standards. Consequently, the total noise impact of the proposed Project would be a substantial increase to the future noise environment. Consequently, the proposed project, when considered alongside all past, present, and probable future projects (inclusive of buildout of the various General Plans within the County), would be expected to cause *significant and unavoidable* cumulative impacts. The proposed project would have *cumulatively considerable* impacts associated with noise.

PUBLIC SERVICES

The cumulative context would includes all areas covered by the service areas of the South San Joaquin County Fire Authority (SSJCFA), Tracy Police Department (TPD), the Lammersville Elementary School District, and any other relevant public services.

Impact 4.16: Cumulative Impact on Public Services (Less than Significant)

Implementation of the proposed Project, in combination with and past, present, and probable future projects, would contribute toward an increased demand for public services and facilities within the City of Tracy. It has been determined that the project-level impacts to the police, fire, schools, and other public services would be less-than-significant. The proposed Project would be subject to all fees that are paid toward the enhancement of public services within the region. Payment of the applicable development fees by the Project applicant, and ongoing revenues that would come from property taxes, sales taxes, and other revenues generated by the proposed Project, would assist in maintaining existing fire, police, schools, and other services.

Under cumulative conditions, past, present, and probably future projects would result in increased demand for public services and recreational facilities. The impact fees developed and reviewed by the City will recover future development's proportionate share of City-related capital asset costs. Fees, as applied only to new development, represent future development's proportionate share of public services and facilities capital costs. It is important to note that impact fees may not be used to correct existing deficiencies, but may be used to pay for increased demand for public facilities or increased demand upon existing capital facilities provided that those facilities are needed to serve additional development and have the capacity to do so, given relevant level-of-service standards. The construction of public facilities to serve past, present, and probably future projects may be required, which could cause substantial adverse physical environmental impacts. The construction and operation of future public facilities required to serve cumulative development could potentially cause cumulatively significant impacts, but such physical impacts cannot be fully defined at this time because the exact facilities are not proposed or known. Any future public facility would undergo its own environmental review to determine physical environmental impacts once it is contemplated, and proposed for construction.

Implementation of the proposed Project, in combination with and past, present, and probable future projects, would have a *less than significant* cumulative impact relative to this environmental topic.

TRANSPORTATION AND CIRCULATION

The cumulative context for this analysis including the City of Tracy Sphere of Influence (SOI) and nearby areas of San Joaquin County. The analysis models the overall change in vehicle-miles-traveled (VMT) in Tracy and the nearby areas of San Joaquin County as a result of forecast development, with the addition of the proposed Project. The intent is to understand how the proposed Project will influence travel behavior in light of future conditions, and to identify possible significant cumulative impacts.

Impact 4.17: Under Cumulative conditions, the proposed Project would conflict with or be inconsistent with CEQA Guidelines Section 15064.3, subdivision (b) (Significant and Unavoidable and Cumulatively Considerable)

The proposed Project was evaluated using the City of Tracy VMT Calculator. For the surrounding industrial land use area, the City's threshold is 9.2 VMT per employee. The City's VMT Calculator estimates that the Project would generate 24.8 VMT per employee, and the Project exceeds the threshold by 164 percent. This VMT per employee value is also applicable to the cumulative scenario, since it also applies under cumulative conditions. Because the Project exceeds the City threshold by 164 percent, a reduction below the City's VMT threshold is not feasible.

Mitigation Measure 3.13-1, which requires travel demand management (TDM) strategies, would be required. Implementation of Mitigation Measure 3.13-1 is feasible because it is within the applicant's purview to implement and has been found effective in previous academic studies. However, the precise effectiveness of specific TDM strategies can be difficult to accurately measure due to a number of external factors such as types of tenants, employee responses to strategies, and changes to technology.

In order for a specific project to have a less than significant impact related to VMT, the project must demonstrate that per capita VMT would be 15 percent below the regional average. Because future development would likely be equal to the regional average, or above average (or less than average but not fully 15 percent less than average), impacts related to VMT would be *significant and unavoidable*. Exceptions to this would be infill projects, or small projects which include VMT reducing strategies. Due to the size of the Project and the fact that the Project exceeds the City threshold by 164 percent, the incremental contribution to this cumulative VMT impact would be *cumulatively considerable*.

Impact 4.18: Under Cumulative conditions, the proposed Project would not adversely affect pedestrian, bicycle, or transit facilities (Less than Significant)

Implementation of the proposed Project would not result in a conflict with an existing or planned pedestrian facility, bicycle facility, or transit service/facility. In addition, the Project would not interfere with the implementation of a planned bicycle facility, pedestrian facility, or transit service/facility. The Project would not cause a degradation in transit service such that service does not meet performance standards established by the transit operator.

The proposed Project, when considered alongside all past, present, and probable future projects (inclusive of buildout of the various General Plans within Stanislaus County), would not be expected to cause any significant cumulative pedestrian or bicycle facilities impacts. The proposed Project would not have cumulatively considerable impacts associated with pedestrian or bicycle facilities. Implementation of the proposed Project, in combination with and past, present, and probable future projects, would have a *less than significant* impact relative to this topic.

UTILITIES AND SERVICE SYSTEMS

The cumulative context includes all areas covered in the service areas of the City's wastewater system, water system, stormwater system, and the solid waste collection and disposal services. Under General Plan buildout conditions, the City would see an increased demand for water service, sewer service, solid waste disposal services, and stormwater infrastructure needs.

Impact 4.19: Cumulative Impact on Wastewater Utilities (Less than Significant)

The City of Tracy's wastewater collection system consists of gravity sewer lines, pump stations and the Wastewater Treatment Plant (WWTP). The NPDES permit for the Tracy WWTP was adopted in May 2007 with proposed amendments initiated in 2008 and 2010. Treated wastewater from the Tracy WWTP is discharged to Old River under Order No. R5-2007-0036 (NPDES No. CA0079154). Because, in the opinion of the Water Board, there is a potential impact to groundwater at the facility, the Tracy WWTP's industrial pretreatment ponds, industrial holding ponds, sludge drying beds, and biosolids storage areas of the facility are regulated by separate waste discharge requirements as defined in Order No. R5-2007-0038. The NPDES permit CA 0079154 allows for discharge of 10.8 million gallons per day (mgd) and up to 16 mgd if applicable treatment facilities are constructed. The WWTP provides disinfected tertiary level treatment meeting Title 22 requirements of the Code of Regulations from the State Water Resource Control Board. The WWTP includes primary clarifiers, activated sludge, secondary clarifiers, flocculation, tertiary filtration, and disinfection.

The City of Tracy's wastewater treatment system is currently in compliance with the WDR requirements of Order No. R5-2007-0036 NPDES NO. CA0079154. The wastewater treatment system options covered under this Order include: City of Tracy WWTP including the collection system, basin/disposal fields, discharge to the Old River, and recycling conveyance and irrigation system. The development of the proposed Project under this permitted option would not exceed the wastewater discharge requirements in this Order as described under Impact 3.14-1 in Section 3.14.

The overall collection sewer strategy for the City of Tracy, including the proposed Project, consists of a combination trunk sewer gravity collection system with pump or lift stations located along the collection system to convey wastewater to an influent pump station located at the City WWTP.

New wastewater collection and conveyance infrastructure needed for the proposed Project would require trenching/excavation of earth, and placement of pipe within the trenches at specific locations, elevations, and gradients. All onsite wastewater utility improvements would be within existing agricultural lands or land currently developed with roadways (i.e., Schulte Road), the impacts of which are discussed in Section 3.2 Agricultural Resources and throughout this EIR.

According to the City's 2012 Wastewater Master Plan, Industrial uses are estimated to generate 1,500 gallons per gross acre per day. The Project site includes 103 acres of Industrial uses. Using this rate, the proposed Industrial uses would generate approximately 154,500 gallons per day (gpd) of wastewater. The proposed Project would increase the amount of wastewater requiring treatment. The wastewater would be treated at the WWTP, which has an ADWF design capacity of 10.8 mgd. Therefore, the project would allocate approximately 1.4 percent of available wastewater capacity

of the WWTP to serve the project. Occupancy of the proposed Project would be prohibited without sewer allocation

The Project by itself does not exceed the existing capacity of the wastewater treatment plant. The Project and any future cumulative projects would be required to secure adequate wastewater treatment capacity/allocation prior to occupancy of any building which would require wastewater treatment services. Implementation of the proposed Project, in combination with and past, present, and probable future projects, would have a *less than significant* impact relative to this topic.

Impact 4.20: Cumulative Impact on Water Utilities (Less than Significant)

The provision of public services and the construction of onsite infrastructure improvements will be required to accommodate the development of the proposed Project. Water distribution will be by an underground distribution system to be installed as per the City of Tracy standards and specifications. The proposed Project would require extension of offsite water conveyance infrastructure to the Project site for potable water and irrigation water. All offsite water utility improvements will be in or adjacent to existing roadways along the perimeter of the Project site, thereby limiting any potential impact to areas that were not already disturbed.

Projected water demands for buildout of the Proposed Project total approximately 156 acre-feet per year (AFY) of which about approximately 114 AFY is industrial demand, approximately 29 AFY is irrigation demand, and approximately 15 AFY is unaccounted-for water. The Water Supply Assessment completed for the proposed Project demonstrates that the City's existing and available potable water supplies are sufficient to meet the City's existing and projected future potable water demands to the year 2040 under all hydrologic conditions. Implementation of the proposed Project would have a *less than significant* and *less than cumulatively considerable* impact relative to this topic.

Impact 4.21: Cumulative Impact on Stormwater Facilities (Less than Significant)

Because the proposed project increases impervious surface area from an existing undeveloped and predominately previous site, the Project site could increase runoff significantly, Project impacts to stormwater are considered potentially significant. Onsite storm drainage would be installed to serve the proposed Project. Development of the proposed Project would include construction of a new storm drainage system, including a drainage collection system, and detention basins. All on-site storm drainage runoff will be collected through drain inlets and catch basins along the streets, and conveyed via surface swales and underground trunk lines to detention and water quality basins. The storm water drainage detention basins will be constructed to meet the City of Tracy Standards. Discharge from the basins will be conveyed through controlled flow pumping facilities to existing City of Tracy and main storm drain laterals.

Installation of the Project's storm drainage system will be subject to current City of Tracy Design Specifications and Standards. The proposed storm drainage collection and detention system will be subject to the SWRCB and City of Tracy regulations, including: Tracy Storm Drain Master Plan, 2012; Phase II, NPDES Permit Requirements; NPDES-MS4 Permit Requirements; and LID Guidelines.

The potential environmental effects resulting from construction of the storm drainage system are analyzed throughout this Draft EIR, and in some cases, there are potentially significant impacts associated with construction of this infrastructure. Where impacts are identified for each environmental topic, mitigation measures are developed to avoid, minimize, or compensate for the impact to the extent practicable. All mitigation measures presented throughout this EIR will be implemented to reduce impacts to the extent practicable. There will not be any significant impacts beyond what is disclosed in the other chapters of this document. Implementation of the proposed Project, in combination with and past, present, and probable future projects, would have a less than *significant* impact relative to this topic.

Impact 4.22: Cumulative Impact on Solid Waste Facilities (Less than Significant)

Currently, the permitted capacity of the Foothill Landfill is 102 million cubic yards. The remaining capacity of the facility is approximately 95 million cubic yards. The addition of the volume of solid waste associated with the Project to the landfill would not exceed the landfill's remaining capacity.

Based on the waste generation factors provided by CalRecycle, the proposed project is expected to generate approximately 5,561 pounds per day of solid waste upon full buildout, which is equivalent to 2.8 tons per day. The proposed project would be required to comply with applicable State and local requirements including those pertaining to solid waste, construction waste diversion, and recycling. The City would coordinate development of the proposed project with Tracy Disposal Service. Furthermore, the addition of the volume of solid waste associated with the proposed project, approximately 2.8 tons per day, would increase the total tons of solid waste to the MRF to approximately 357 tons per day; however, this increase would not cause an exceedance of the landfill's remaining capacity.

According to the City's General Plan Draft EIR, growth within San Joaquin County would contribute to the need for adequate solid waste disposal facilities. The Foothill landfill has capacity until at least 2054. The cumulative population growth within the County was considered when evaluating the lifespan of the facility and planning for future expansions. As a result, it can be concluded that there would be adequate capacity to support regional increases in population, and a significant cumulative impact would not occur.

The proposed Project would be required to comply with applicable state and local requirements including those pertaining to solid waste, construction waste diversion, and recycling. In conclusion, implementation of the proposed Project, in combination with and past, present, and probable future projects, would have a *less than significant* cumulative impact relative to this environmental topic.

4.2 SIGNIFICANT IRREVERSIBLE EFFECTS

LEGAL CONSIDERATIONS

CEQA Section 15126.2(c) and Public Resources Code Sections 21100(b)(2) and 21100.1(a) require that the EIR include a discussion of significant irreversible environmental changes which would be involved in the proposed action should it be implemented. Irreversible environmental effects are described as:

- The project would involve a large commitment of nonrenewable resources;
- The primary and secondary impacts of a project would generally commit future generations to similar uses (e.g., a highway provides access to previously remote area);
- The project involves uses in which irreversible damage could result from any potential environmental accidents associated with the project; or
- The phasing of the proposed consumption of resources is not justified (e.g., the project involves the wasteful use of energy).

Determining whether the proposed Project would result in significant irreversible effects requires a determination of whether key resources would be degraded or destroyed such that there would be little possibility of restoring them. Irretrievable commitments of resources should be evaluated to assure that such current consumption is justified.

Analysis

Implementation of the proposed Project would result in the conversion of the approximately 103.0-acre Development Area, which is comprised of vacant land previously used for agricultural purposes and a small portion of land used as an overflow outlet for the Delta-Mendota Canal for the development of industrial uses. Development of the proposed Project would constitute a long-term commitment to these uses. It is unlikely that circumstances would arise that would justify the return of the land to its previous condition as agricultural or vacant rural land.

A variety of resources, including land, energy, water, construction materials, and human resources would be irretrievably committed for the initial construction, infrastructure installation and connection to existing utilities, and its continued maintenance. Construction of the proposed Project would require the commitment of a variety of other non-renewable or slowly renewable natural resources such as lumber and other forest products, sand and gravel, asphalt, petrochemicals, and metals.

Additionally, a variety of resources would be committed to the ongoing operation and life of the proposed Project. The introduction of industrial uses to the Project site will result in an increase in area traffic over existing conditions. Fossil fuels are the principal source of energy (due to the usage of mobile vehicles that use fossil fuels such as gasoline and diesel) and the proposed Project will increase consumption of available supplies, including gasoline and diesel. These energy resource demands relate to initial Project construction, Project operation and site maintenance and the transport of people and goods to and from the Project site.

4.3 SIGNIFICANT AND UNAVOIDABLE IMPACTS

CEQA Guidelines Section 15126.2(b) requires an EIR to discuss unavoidable significant environmental effects, including those that can be mitigated but not reduced to a less than significant level . The following significant and unavoidable impacts of the proposed Project are discussed in Sections 3.1 through 3.14 and previously in this chapter (cumulative-level). Refer to those discussions for further details and analysis of the significant and unavoidable impacts identified below:

- Impact 3.1-1: Project implementation may result in substantial adverse effects on scenic vistas and resources.
- Impact 3.2-1: The proposed Project has the potential to result in the conversion of Farmlands, including Prime Farmland and Farmland of Statewide Importance, as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to non-agricultural uses.
- Impact 3.3-1: Project operation would result in a cumulatively considerable net increase of a criteria pollutant for which the Project region is in non-attainment, or conflict or obstruct implementation of the Air District's air quality plan.
- Impact 3.3-2: The proposed Project would result in a cumulatively considerable net increase of a criteria pollutant for which the region is in nonattainment under an applicable federal or State ambient air quality standard.
- Impact 3.11-1: The proposed Project has the potential to generate a substantial temporary or permanent increase in ambient noise levels in the vicinity of the Project in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies.
- Impact 3.13-1: Project implementation would conflict with or be inconsistent with CEQA Guidelines Section 15064.3, subdivision (b) in terms of vehicle miles traveled (VMT).
- Impact 4.2: Cumulative Degradation of the Existing Visual Character of the Region
- Impact 4.4: Cumulative Impact on Agricultural Resources
- Impact 4.5: Cumulative Impact on the Region's Air Quality
- Impact 4.15: Cumulative Exposure of Existing Noise-Sensitive Land Uses to Increased Noise Resulting from Cumulative Development
- Impact 4.17: Under Cumulative conditions, the proposed Project would conflict with or be inconsistent with CEQA Guidelines Section 15064.3, subdivision (b) in terms of vehicle miles traveled (VMT).

4.4 Growth-Inducing Impacts

Section 15126.2(d) of the CEQA Guidelines requires an EIR to "discuss the ways in which the project could foster economic or population growth, or the construction of additional housing, either directly or indirectly, in the surrounding environment. Included in this are projects which would remove obstacles to population growth..." In general terms, a project may result in a significant growth-inducing impact if it individually or cumulatively with other projects results in any of the actions described in the following examples:

- The project removes an obstacle to growth, such as: the establishment of an essential public service, the provision of new access to an area, or a change in zoning or general plan designation.
- The project results in economic expansion, population growth or the construction of additional housing occurs in the surrounding environment in response to the project, either directly or indirectly.

Existing storm drain, sewer, water, and gas lines/pipes are currently located along West Schulte Road. The Project would be served by existing sewer, water and other utility services that have been established on the Project site and in the Project area. Access to the Project would be provided by existing roads and proposed roadways. The main entry and exit point for employee vehicles would be located at the center of the site, at the existing signalized Bud Lyons Way intersection. A second employee entry would be located east of the Bud Lyons Way intersection and would be right-in and right-out only. The third access driveway located at the Project site's northeast boundary includes a new signalized intersection and a deceleration lane for trucks traveling eastbound on West Schulte Road. Therefore, the proposed Project would not require an extension of public services that have the potential to result in or facilitate unplanned growth in the Project area.

The proposed Project would provide employment opportunities for City and County residents on a site that has been planned for industrial development by the City of Tracy General Plan and associated EIR. Overall, the additional industrial uses in the City would not have the long-term effect of inducing population growth.

The Project would result in an increase in employment opportunities by creating full-time job positions. The Project would also generate short-term construction employment opportunities, but these opportunities would not result in substantial population growth in the project region. Therefore, the proposed Project would not result in significant growth inducing impacts.

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APPENDIX A

Air Quality, Greenhouse Gas, and Energy Appendices

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Appendix A.1: CalEEMod Outputs

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APPENDIX A.1

CalEEMod Outputs

Tracy Costco (Main Model Run) v3 Detailed Report

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 - 7.5. Evaluation Scorecard
 - 7.6. Health & Equity Custom Measures
- 8. User Changes to Default Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Tracy Costco (Main Model Run) v3
Construction Start Date	7/8/2024
Operational Year	2026
Lead Agency	_
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	3.00
Precipitation (days)	6.60
Location	37.72034841082716, -121.51274124970524
County	San Joaquin
City	Unincorporated
Air District	San Joaquin Valley APCD
Air Basin	San Joaquin Valley
TAZ	2107
EDFZ	4
Electric Utility	Pacific Gas & Electric Company
Gas Utility	Pacific Gas & Electric
App Version	2022.1.1.21

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq	Special Landscape	Population	Description
					ft)	Area (sq ft)		

Unrefrigerated Warehouse-No Rail	543	1000sqft	12.5	543,330	0.00	0.00	_	_
Unrefrigerated Warehouse-No Rail	1,202	1000sqft	27.6	1,201,730	0.00	0.00	_	_
Other Asphalt Surfaces	62.9	Acre	62.9	0.00	0.00	0.00	_	_

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Construction	C-10-A	Water Exposed Surfaces
Transportation	T-14*	Provide Electric Vehicle Charging Infrastructure
Transportation	T-34*	Provide Bike Parking
Transportation	T-35*	Provide Tra c Calming Measures
Energy	E-2	Require Energy Efficient Appliances
Energy	E-10-B	Establish Onsite Renewable Energy Systems: Solar Power

^{*} Qualitative or supporting measure. Emission reductions not included in the mitigated emissions results.

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

		(1.07 0.0.	,	. j, j .		, aa	J : J J J (:	.c, c.c., .c.	,,	, ,	J							
Un/Mit.	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unmit.	7.02	6.24	39.7	133	0.22	0.77	19.8	19.9	0.75	10.1	10.3	_	34,411	34,411	1.19	2.27	59.4	35,167
Mit.	7.02	6.24	39.7	133	0.22	0.77	13.1	13.8	0.75	3.97	4.58	_	34,411	34,411	1.19	2.27	59.4	35,167
% Reduced	_	_	_	_	_	_	34%	31%	_	61%	55%	_	_	_	_	_	_	_

Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unmit.	9.35	9.54	48.4	125	0.22	0.84	18.0	18.9	0.81	5.99	6.80	_	36,644	36,644	1.05	2.98	2.46	37,558
Mit.	9.35	9.54	48.4	125	0.22	0.84	16.7	17.4	0.81	4.09	4.74	_	36,644	36,644	1.05	2.98	2.46	37,558
% Reduced	_	_	_	_	_	_	8%	8%	_	32%	30%	_	_	_	_	_	_	_
Average Daily (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unmit.	5.38	5.21	29.1	96.9	0.16	0.55	14.3	14.9	0.53	4.78	5.32	_	24,848	24,848	0.76	1.49	19.0	25,328
Mit.	5.38	5.21	29.1	96.9	0.16	0.55	10.3	10.8	0.53	3.01	3.55	_	24,848	24,848	0.76	1.49	19.0	25,328
% Reduced	_	_	_	_	_	_	28%	27%	_	37%	33%	_	_	_	_	_	_	_
Annual (Max)	-	_	_	_	_	_	_	_	_	-	_	-	_	_	_	_	_	_
Unmit.	0.98	0.95	5.31	17.7	0.03	0.10	2.62	2.72	0.10	0.87	0.97	_	4,114	4,114	0.13	0.25	3.15	4,193
Mit.	0.98	0.95	5.31	17.7	0.03	0.10	1.87	1.97	0.10	0.55	0.65	_	4,114	4,114	0.13	0.25	3.15	4,193
% Reduced	_	_	_	_	_	_	28%	27%	_	37%	33%	_	_	_	_	_	_	_

2.2. Construction Emissions by Year, Unmitigated

Year	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	всо2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
2024	2.34	2.21	16.1	98.3	0.20	0.48	19.8	19.9	0.48	10.1	10.3	_	23,249	23,249	0.86	0.85	12.0	23,537
2025	7.02	6.24	39.7	133	0.22	0.77	18.0	18.8	0.75	5.99	6.74	_	34,411	34,411	1.19	2.23	59.4	35,167
2026	5.07	4.38	29.9	68.3	0.14	0.45	9.76	10.2	0.44	2.43	2.87	_	24,243	24,243	0.55	2.27	54.2	24,987

Daily - Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
2024	6.28	5.57	33.3	107	0.20	0.61	16.7	17.3	0.59	5.64	6.23	_	27,006	27,006	1.05	1.62	1.33	27,517
2025	9.35	9.54	48.4	125	0.22	0.84	18.0	18.9	0.81	5.99	6.80	_	36,644	36,644	1.04	2.98	2.46	37,558
2026	4.36	3.79	22.3	54.0	0.09	0.30	8.34	8.64	0.29	2.05	2.33	_	17,792	17,792	0.47	1.49	1.10	18,248
Average Daily	_	_	_	_	_	_	_	_	_	_	_	-	_	_	_	_	_	_
2024	0.97	0.90	6.43	37.5	0.07	0.18	6.37	6.56	0.18	2.13	2.31	_	8,858	8,858	0.33	0.33	2.24	8,967
2025	5.38	5.21	29.1	96.9	0.16	0.55	14.3	14.9	0.53	4.78	5.32	_	24,848	24,848	0.76	1.49	19.0	25,328
2026	2.46	2.13	13.3	30.9	0.06	0.19	4.76	4.94	0.18	1.17	1.35	_	10,692	10,692	0.27	0.93	10.8	10,987
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
2024	0.18	0.16	1.17	6.84	0.01	0.03	1.16	1.20	0.03	0.39	0.42	_	1,467	1,467	0.05	0.05	0.37	1,485
2025	0.98	0.95	5.31	17.7	0.03	0.10	2.62	2.72	0.10	0.87	0.97	_	4,114	4,114	0.13	0.25	3.15	4,193
2026	0.45	0.39	2.43	5.65	0.01	0.03	0.87	0.90	0.03	0.21	0.25	1_	1,770	1,770	0.04	0.15	1.78	1,819

2.3. Construction Emissions by Year, Mitigated

Year	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
2024	2.34	2.21	16.1	98.3	0.20	0.48	7.81	7.95	0.48	3.97	4.11	_	23,249	23,249	0.86	0.85	12.0	23,537
2025	7.02	6.24	39.7	133	0.22	0.77	13.1	13.8	0.75	3.83	4.58	_	34,411	34,411	1.19	2.23	59.4	35,167
2026	5.07	4.38	29.9	68.3	0.14	0.45	9.76	10.2	0.44	2.43	2.87	_	24,243	24,243	0.55	2.27	54.2	24,987
Daily - Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_		_
2024	6.28	5.57	33.3	107	0.20	0.61	11.8	12.4	0.59	3.49	4.07	_	27,006	27,006	1.05	1.62	1.33	27,517
2025	9.35	9.54	48.4	125	0.22	0.84	16.7	17.4	0.81	4.09	4.74	_	36,644	36,644	1.04	2.98	2.46	37,558

2026	4.36	3.79	22.3	54.0	0.09	0.30	8.34	8.64	0.29	2.05	2.33	_	17,792	17,792	0.47	1.49	1.10	18,248
Average Daily	_	_	_	_	_		_	_	_	_		_	_	_	_	_	_	_
2024	0.97	0.90	6.43	37.5	0.07	0.18	2.91	3.09	0.18	0.94	1.12	_	8,858	8,858	0.33	0.33	2.24	8,967
2025	5.38	5.21	29.1	96.9	0.16	0.55	10.3	10.8	0.53	3.01	3.55	_	24,848	24,848	0.76	1.49	19.0	25,328
2026	2.46	2.13	13.3	30.9	0.06	0.19	4.76	4.94	0.18	1.17	1.35	_	10,692	10,692	0.27	0.93	10.8	10,987
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
2024	0.18	0.16	1.17	6.84	0.01	0.03	0.53	0.56	0.03	0.17	0.20	_	1,467	1,467	0.05	0.05	0.37	1,485
2025	0.98	0.95	5.31	17.7	0.03	0.10	1.87	1.97	0.10	0.55	0.65	_	4,114	4,114	0.13	0.25	3.15	4,193
2026	0.45	0.39	2.43	5.65	0.01	0.03	0.87	0.90	0.03	0.21	0.25	_	1,770	1,770	0.04	0.15	1.78	1,819

2.4. Operations Emissions Compared Against Thresholds

Un/Mit.	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unmit.	32.7	49.3	123	288	1.29	2.21	62.7	65.0	2.09	16.3	18.4	1,657	147,303	148,960	173	17.6	366	158,891
Mit.	32.7	49.3	123	288	1.29	2.21	62.7	65.0	2.09	16.3	18.4	1,657	143,296	144,953	172	17.5	366	154,845
% Reduced	_	_	_	_	_	_	_	_	_	_	_	_	3%	3%	< 0.5%	< 0.5%	-	3%
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unmit.	18.2	35.9	132	177	1.25	2.08	62.7	64.8	1.99	16.3	18.3	1,657	143,490	145,147	173	17.8	9.49	154,772
Mit.	18.2	35.9	132	177	1.25	2.08	62.7	64.8	1.99	16.3	18.3	1,657	139,484	141,141	172	17.7	9.49	150,726
% Reduced	_	_	_		_	_	_	_	_	_	_	_	3%	3%	< 0.5%	< 0.5%	_	3%

Average Daily (Max)	_	_	_	_	_	_	_	_	_	-	_	_	_	_	_	_	_	_
Unmit.	24.9	42.1	128	219	1.26	2.15	62.5	64.7	2.04	16.2	18.3	1,657	144,452	146,109	173	17.7	158	155,860
Mit.	24.9	42.1	128	219	1.26	2.15	62.5	64.7	2.04	16.2	18.3	1,657	140,445	142,103	172	17.6	158	151,814
% Reduced	_	_	_	_	_	_	_	_	_	_	_	_	3%	3%	< 0.5%	< 0.5%	_	3%
Annual (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unmit.	4.55	7.69	23.4	39.9	0.23	0.39	11.4	11.8	0.37	2.96	3.33	274	23,916	24,190	28.6	2.93	26.2	25,804
Mit.	4.55	7.69	23.4	39.9	0.23	0.39	11.4	11.8	0.37	2.96	3.33	274	23,252	23,527	28.5	2.92	26.2	25,134
% Reduced	_	_	_	_	_	_	_	_	_	_	_	_	3%	3%	< 0.5%	< 0.5%	_	3%

2.5. Operations Emissions by Sector, Unmitigated

Sector	TOG	ROG	NOx	СО	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	-	_	_	_	_	_
Mobile	18.9	15.4	119	210	1.27	1.88	62.7	64.6	1.79	16.3	18.1	_	132,972	132,972	2.99	15.5	366	138,033
Area	13.5	33.8	0.64	75.9	< 0.005	0.13	_	0.13	0.10	_	0.10	_	312	312	0.01	< 0.005	_	313
Energy	0.29	0.14	2.60	2.19	0.02	0.20	_	0.20	0.20	_	0.20	_	13,283	13,283	1.92	0.21	_	13,392
Water	_	_	_	_	_	_	_	_	_	_	_	773	735	1,509	79.4	1.90	_	4,059
Waste	_	_	_	_	_	_	_	_	_	_	_	884	0.00	884	88.4	0.00	_	3,093
Total	32.7	49.3	123	288	1.29	2.21	62.7	65.0	2.09	16.3	18.4	1,657	147,303	148,960	173	17.6	366	158,891
Daily, Winter (Max)	_	_	_	_	_	_	_	-	_	_	_	_	_	_	_	-	_	_
Mobile	17.9	14.5	129	175	1.23	1.88	62.7	64.6	1.80	16.3	18.1	_	129,472	129,472	3.08	15.7	9.49	134,227

Area	_	21.3	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Energy	0.29	0.14	2.60	2.19	0.02	0.20	_	0.20	0.20	_	0.20	_	13,283	13,283	1.92	0.21	_	13,392
Water	_	_	_	_	_	_	_	_	_	_	_	773	735	1,509	79.4	1.90	_	4,059
Waste	_	_	_	_	_	_	_	_	_	_	_	884	0.00	884	88.4	0.00	_	3,093
Total	18.2	35.9	132	177	1.25	2.08	62.7	64.8	1.99	16.3	18.3	1,657	143,490	145,147	173	17.8	9.49	154,772
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Mobile	18.0	14.5	126	179	1.24	1.88	62.5	64.4	1.79	16.2	18.0	_	130,280	130,280	3.03	15.6	158	135,161
Area	6.66	27.5	0.32	37.4	< 0.005	0.07	_	0.07	0.05	_	0.05	_	154	154	0.01	< 0.005	_	154
Energy	0.29	0.14	2.60	2.19	0.02	0.20	_	0.20	0.20	_	0.20	_	13,283	13,283	1.92	0.21	_	13,392
Water	_	_	_	_	_	_	_	_	_	_	_	773	735	1,509	79.4	1.90	_	4,059
Waste	_	_	_	_	_	_	_	_	_	_	_	884	0.00	884	88.4	0.00	_	3,093
Total	24.9	42.1	128	219	1.26	2.15	62.5	64.7	2.04	16.2	18.3	1,657	144,452	146,109	173	17.7	158	155,860
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Mobile	3.28	2.65	22.9	32.7	0.23	0.34	11.4	11.8	0.33	2.96	3.29	_	21,569	21,569	0.50	2.58	26.2	22,377
Area	1.21	5.01	0.06	6.83	< 0.005	0.01	_	0.01	0.01	_	0.01	_	25.5	25.5	< 0.005	< 0.005	_	25.6
Energy	0.05	0.03	0.48	0.40	< 0.005	0.04	_	0.04	0.04	_	0.04	_	2,199	2,199	0.32	0.03	_	2,217
Water	_	_	_	_	_	_	_	_	_	_	_	128	122	250	13.1	0.31	_	672
Waste	_	_	_	_	_	_	_	_	_	_	_	146	0.00	146	14.6	0.00	_	512
Total	4.55	7.69	23.4	39.9	0.23	0.39	11.4	11.8	0.37	2.96	3.33	274	23,916	24,190	28.6	2.93	26.2	25,804

2.6. Operations Emissions by Sector, Mitigated

Sector	TOG	ROG	NOx	СО	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Mobile	18.9	15.4	119	210	1.27	1.88	62.7	64.6	1.79	16.3	18.1	_	132,972	132,972	2.99	15.5	366	138,033

Area	13.5	33.8	0.64	75.9	< 0.005	0.13	_	0.13	0.10	_	0.10	_	312	312	0.01	< 0.005	_	313
Energy	0.29	0.14	2.60	2.19	0.02	0.20	_	0.20	0.20	_	0.20	_	9,276	9,276	1.27	0.13	_	9,346
Water	_	_	_	_	_	_	_	_	_	_	_	773	735	1,509	79.4	1.90	_	4,059
Waste	_	_	_	_	_	_	_	_	_	_	_	884	0.00	884	88.4	0.00	_	3,093
Total	32.7	49.3	123	288	1.29	2.21	62.7	65.0	2.09	16.3	18.4	1,657	143,296	144,953	172	17.5	366	154,845
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Mobile	17.9	14.5	129	175	1.23	1.88	62.7	64.6	1.80	16.3	18.1	_	129,472	129,472	3.08	15.7	9.49	134,227
Area	_	21.3	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Energy	0.29	0.14	2.60	2.19	0.02	0.20	_	0.20	0.20	_	0.20	_	9,276	9,276	1.27	0.13	_	9,346
Water	_	_	_	_	_	_	_	_	_	_	_	773	735	1,509	79.4	1.90	_	4,059
Waste	_	_	_	_	_	_	_	_	_	_	_	884	0.00	884	88.4	0.00	_	3,093
Total	18.2	35.9	132	177	1.25	2.08	62.7	64.8	1.99	16.3	18.3	1,657	139,484	141,141	172	17.7	9.49	150,726
Average Daily	_	_	_	_	_	_	_	_	_	_	<u> </u>	_	_	_	_	_	_	_
Mobile	18.0	14.5	126	179	1.24	1.88	62.5	64.4	1.79	16.2	18.0	<u> </u>	130,280	130,280	3.03	15.6	158	135,161
Area	6.66	27.5	0.32	37.4	< 0.005	0.07	_	0.07	0.05	_	0.05	_	154	154	0.01	< 0.005	_	154
Energy	0.29	0.14	2.60	2.19	0.02	0.20	_	0.20	0.20	_	0.20	_	9,276	9,276	1.27	0.13	_	9,346
Water	_	_	_	_	_	_	_	_	_	_	_	773	735	1,509	79.4	1.90	_	4,059
Waste	_	_	_	_	_	_	_	_	_	_	_	884	0.00	884	88.4	0.00	_	3,093
Total	24.9	42.1	128	219	1.26	2.15	62.5	64.7	2.04	16.2	18.3	1,657	140,445	142,103	172	17.6	158	151,814
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Mobile	3.28	2.65	22.9	32.7	0.23	0.34	11.4	11.8	0.33	2.96	3.29	_	21,569	21,569	0.50	2.58	26.2	22,377
Area	1.21	5.01	0.06	6.83	< 0.005	0.01	_	0.01	0.01	_	0.01	_	25.5	25.5	< 0.005	< 0.005	_	25.6
Energy	0.05	0.03	0.48	0.40	< 0.005	0.04	_	0.04	0.04	_	0.04	_	1,536	1,536	0.21	0.02	_	1,547
Water	_	_	_	_	_	_	_	_	_	_	_	128	122	250	13.1	0.31	_	672
Waste	_	_	_	_	_	_	_	_	_	_	_	146	0.00	146	14.6	0.00	_	512
Total	4.55	7.69	23.4	39.9	0.23	0.39	11.4	11.8	0.37	2.96	3.33	274	23,252	23,527	28.5	2.92	26.2	25,134

3. Construction Emissions Details

3.1. Site Preparation (2024) - Unmitigated

				ily, ton/y														
Location	TOG	ROG	NOx	СО	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	_	_	_	-	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.70	3.61	37.4	0.07	0.14	_	0.14	0.14	_	0.14	_	7,375	7,375	0.30	0.06	_	7,400
Dust From Material Movemen	_	_	_	_	_		19.7	19.7		10.1	10.1		_		_			_
Onsite truck	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	0.00
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_		_	_	_	_		_
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.03	0.17	1.74	< 0.005	0.01	_	0.01	0.01	_	0.01	_	343	343	0.01	< 0.005	_	345
Dust From Material Movemen:	_	_	_	_	_	_	0.92	0.92	_	0.47	0.47	_	_	_	_	_	_	_
Onsite truck	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	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.01	0.03	0.32	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	56.9	56.9	< 0.005	< 0.005	_	57.1

Dust From Material Movemen		_	_	_	-	_	0.17	0.17	_	0.09	0.09	_	_	_	_	_	_	_
Onsite truck	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	0.00
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.09	0.08	0.05	1.00	0.00	0.00	0.15	0.15	0.00	0.03	0.03	_	165	165	0.01	0.01	0.66	168
Vendor	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	0.00
Hauling	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	0.00
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	_	7.13	7.13	< 0.005	< 0.005	0.01	7.24
Vendor	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	0.00
Hauling	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	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	_	1.18	1.18	< 0.005	< 0.005	< 0.005	1.20
Vendor	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	0.00
Hauling	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	0.00

3.2. Site Preparation (2024) - Mitigated

Location	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.70	3.61	37.4	0.07	0.14	_	0.14	0.14	-	0.14	_	7,375	7,375	0.30	0.06	_	7,400
Dust From Material Movemen	<u> </u>	_	_	_	_	_	7.67	7.67	_	3.94	3.94	_	_	_	_	_	_	_
Onsite truck	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	0.00
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.03	0.17	1.74	< 0.005	0.01	_	0.01	0.01	_	0.01	-	343	343	0.01	< 0.005	_	345
Dust From Material Movemen	_	_	_	_	_	_	0.36	0.36	_	0.18	0.18	_	_	_	_	_	_	_
Onsite truck	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	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.01	0.03	0.32	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	56.9	56.9	< 0.005	< 0.005	_	57.1
Dust From Material Movemen	<u> </u>	_	_	_	_	_	0.07	0.07	_	0.03	0.03	_	_	_	_	_	_	_
Onsite truck	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	0.00
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	-	_	_	_	_
Worker	0.09	0.08	0.05	1.00	0.00	0.00	0.15	0.15	0.00	0.03	0.03	_	165	165	0.01	0.01	0.66	168
Vendor	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	0.00
Hauling	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	0.00
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	_	7.13	7.13	< 0.005	< 0.005	0.01	7.24
Vendor	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	0.00
Hauling	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	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	_	1.18	1.18	< 0.005	< 0.005	< 0.005	1.20
Vendor	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	0.00
Hauling	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	0.00

3.3. Phase 1 - Site Finishing (2025) - Unmitigated

Location	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	_	_	_	_	_	<u> </u>	_	_	_	_	<u> </u>	<u> </u>	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.26	2.70	5.19	0.01	0.07	_	0.07	0.06	_	0.06	_	743	743	0.03	0.01	_	745

Dust From Material Movement	_	_	_	_		_	0.00	0.00	_	0.00	0.00		_	_	_			_
Onsite truck	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	0.00
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipment		0.26	2.70	5.19	0.01	0.07	_	0.07	0.06	_	0.06	_	743	743	0.03	0.01	_	745
Dust From Material Movemen	_	_	_	_	_	_	0.00	0.00	_	0.00	0.00	_	_	_	_	_	_	_
Onsite truck	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	0.00
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipment		0.03	0.31	0.60	< 0.005	0.01	_	0.01	0.01	_	0.01	_	85.5	85.5	< 0.005	< 0.005	_	85.7
Dust From Material Movement	_	_	_	_	-	_	0.00	0.00	_	0.00	0.00	_	_	_	_	_	_	_
Onsite truck	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	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipment		0.01	0.06	0.11	< 0.005	< 0.005	-	< 0.005	< 0.005	_	< 0.005	_	14.1	14.1	< 0.005	< 0.005	-	14.2
Dust From Material Movemen:	_	_	_	_	-	_	0.00	0.00	_	0.00	0.00	_	_	_	_	_	_	_
Onsite truck	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	0.00

Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.03	0.03	0.02	0.39	0.00	0.00	0.06	0.06	0.00	0.01	0.01	_	69.4	69.4	< 0.005	< 0.005	0.26	70.5
Vendor	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	0.00
Hauling	0.14	0.08	4.02	0.96	0.02	0.06	0.89	0.95	0.06	0.24	0.31	_	3,361	3,361	0.07	0.52	8.14	3,526
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.03	0.03	0.03	0.31	0.00	0.00	0.06	0.06	0.00	0.01	0.01	_	62.7	62.7	< 0.005	< 0.005	0.01	63.5
Vendor	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	0.00
Hauling	0.13	0.05	4.30	0.98	0.02	0.06	0.89	0.95	0.06	0.24	0.31	_	3,363	3,363	0.07	0.52	0.21	3,521
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	_	7.39	7.39	< 0.005	< 0.005	0.01	7.50
Vendor	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	0.00
Hauling	0.02	0.01	0.48	0.11	< 0.005	0.01	0.10	0.11	0.01	0.03	0.04	_	387	387	0.01	0.06	0.40	405
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	_	1.22	1.22	< 0.005	< 0.005	< 0.005	1.24
Vendor	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	0.00
Hauling	< 0.005	< 0.005	0.09	0.02	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	_	64.1	64.1	< 0.005	0.01	0.07	67.1

3.4. Phase 1 - Site Finishing (2025) - Mitigated

Location	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

Off-Road Equipmen		0.26	2.70	5.19	0.01	0.07	_	0.07	0.06	_	0.06	_	743	743	0.03	0.01	_	745
Dust From Material Movemen		_	_	_	_	_	0.00	0.00	_	0.00	0.00	_	_	_	_	_	_	_
Onsite truck	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	0.00
Daily, Winter (Max)	_	_	-	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.26	2.70	5.19	0.01	0.07	_	0.07	0.06	_	0.06	_	743	743	0.03	0.01	_	745
Dust From Material Movemen	_	-	-	_	_	_	0.00	0.00	_	0.00	0.00	_	-	_	_	_	_	_
Onsite truck	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	0.00
Average Daily	_	_	-	_	_	_	_	_	_	_	_	_	_	-	_	_	-	_
Off-Road Equipmen		0.03	0.31	0.60	< 0.005	0.01	_	0.01	0.01	_	0.01	_	85.5	85.5	< 0.005	< 0.005	_	85.7
Dust From Material Movemen	_	_	_	_	_	_	0.00	0.00	_	0.00	0.00	_	_	_	_	_	_	_
Onsite truck	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	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.01	0.06	0.11	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	14.1	14.1	< 0.005	< 0.005	_	14.2
Dust From Material Movemen	_	_	_	_	_	_	0.00	0.00	_	0.00	0.00	_	_	_	_	_	_	_

Onsite truck	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	0.00
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.03	0.03	0.02	0.39	0.00	0.00	0.06	0.06	0.00	0.01	0.01	_	69.4	69.4	< 0.005	< 0.005	0.26	70.5
Vendor	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	0.00
Hauling	0.14	0.08	4.02	0.96	0.02	0.06	0.89	0.95	0.06	0.24	0.31	_	3,361	3,361	0.07	0.52	8.14	3,526
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.03	0.03	0.03	0.31	0.00	0.00	0.06	0.06	0.00	0.01	0.01	_	62.7	62.7	< 0.005	< 0.005	0.01	63.5
Vendor	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	0.00
Hauling	0.13	0.05	4.30	0.98	0.02	0.06	0.89	0.95	0.06	0.24	0.31	_	3,363	3,363	0.07	0.52	0.21	3,521
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	_	7.39	7.39	< 0.005	< 0.005	0.01	7.50
Vendor	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	0.00
Hauling	0.02	0.01	0.48	0.11	< 0.005	0.01	0.10	0.11	0.01	0.03	0.04	_	387	387	0.01	0.06	0.40	405
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	_	1.22	1.22	< 0.005	< 0.005	< 0.005	1.24
Vendor	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	0.00
Hauling	< 0.005	< 0.005	0.09	0.02	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	_	64.1	64.1	< 0.005	0.01	0.07	67.1

3.5. Phase 2 - Site Finishing (2026) - Unmitigated

Location	TOG	ROG	NOx	СО	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

Daily, Summer (Max)	_	_			_	_	_	_	_	_	_	_	_		_	_	_	
Off-Road Equipmen		0.25	2.66	5.17	0.01	0.06	_	0.06	0.06	_	0.06	-	743	743	0.03	0.01	_	745
Dust From Material Movemen	<u> </u>	_	_	_	_	_	0.00	0.00	_	0.00	0.00	_	_	_	_	_	_	_
Onsite truck	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	0.00
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.04	0.40	0.78	< 0.005	0.01	_	0.01	0.01	_	0.01	_	112	112	< 0.005	< 0.005	_	112
Dust From Material Movemen	_	_	_	_	_	_	0.00	0.00	_	0.00	0.00	_	_	_	_	_	_	_
Onsite truck	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	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.01	0.07	0.14	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	18.5	18.5	< 0.005	< 0.005	_	18.6
Dust From Material Movemen	<u> </u>	_	_	_	_	_	0.00	0.00	_	0.00	0.00	_	-	_	_	_	_	_
Onsite truck	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	0.00
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.03	0.03	0.02	0.36	0.00	0.00	0.06	0.06	0.00	0.01	0.01	_	67.9	67.9	< 0.005	< 0.005	0.23	68.9
Vendor	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	0.00
Hauling	0.21	0.09	5.95	1.43	0.03	0.10	1.35	1.45	0.10	0.37	0.47	_	5,009	5,009	0.08	0.79	11.7	5,258
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	_	9.48	9.48	< 0.005	< 0.005	0.02	9.62
Vendor	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	0.00
Hauling	0.03	0.01	0.93	0.22	0.01	0.01	0.20	0.22	0.01	0.06	0.07	_	755	755	0.01	0.12	0.76	792
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	_	1.57	1.57	< 0.005	< 0.005	< 0.005	1.59
Vendor	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	0.00
Hauling	0.01	< 0.005	0.17	0.04	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	_	125	125	< 0.005	0.02	0.13	131

3.6. Phase 2 - Site Finishing (2026) - Mitigated

Location	TOG	ROG		со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.25	2.66	5.17	0.01	0.06	_	0.06	0.06	_	0.06	_	743	743	0.03	0.01	_	745

Dust From Material Movemen	<u> </u>	_	_	_	_	_	0.00	0.00	_	0.00	0.00	_	_	_	_	_	_	_
Onsite truck	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	0.00
Daily, Winter (Max)		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.04	0.40	0.78	< 0.005	0.01	_	0.01	0.01	_	0.01	_	112	112	< 0.005	< 0.005	_	112
Dust From Material Movemen	_	_	_	-	_	_	0.00	0.00	_	0.00	0.00	_	_	-	_	_	_	_
Onsite truck	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	0.00
Annual	_	_	_	-	_	_	_	_	_	_	_	_	_	_	-	_	_	_
Off-Road Equipmen		0.01	0.07	0.14	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	18.5	18.5	< 0.005	< 0.005	_	18.6
Dust From Material Movemen		_	_	-	_	_	0.00	0.00	_	0.00	0.00	_	_	_	_	_	_	_
Onsite truck	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	0.00
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	-	_	_	_	_	-	_	_	_	_	_	_	_	-	_	_	_
Worker	0.03	0.03	0.02	0.36	0.00	0.00	0.06	0.06	0.00	0.01	0.01	_	67.9	67.9	< 0.005	< 0.005	0.23	68.9
Vendor	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	0.00
Hauling	0.21	0.09	5.95	1.43	0.03	0.10	1.35	1.45	0.10	0.37	0.47	_	5,009	5,009	0.08	0.79	11.7	5,258

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Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	_	9.48	9.48	< 0.005	< 0.005	0.02	9.62
Vendor	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	0.00
Hauling	0.03	0.01	0.93	0.22	0.01	0.01	0.20	0.22	0.01	0.06	0.07	_	755	755	0.01	0.12	0.76	792
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	_	1.57	1.57	< 0.005	< 0.005	< 0.005	1.59
Vendor	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	0.00
Hauling	0.01	< 0.005	0.17	0.04	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	_	125	125	< 0.005	0.02	0.13	131

3.7. Grading (2024) - Unmitigated

Location	TOG	ROG	NOx	co				PM10T	PM2.5E		PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		1.92	10.7	94.8	0.17	0.40	_	0.40	0.40	_	0.40	_	18,516	18,516	0.75	0.15	_	18,580
Dust From Material Movemen		_	_	_	_	_	13.5	13.5	_	4.12	4.12	_	_	_	_	_	_	_
Onsite truck	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	0.00
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

Off-Road Equipmen		1.92	10.7	94.8	0.17	0.40	_	0.40	0.40	_	0.40	_	18,516	18,516	0.75	0.15	_	18,580
Dust From Material Movemen:	<u> </u>	_	_	_	_	-	13.5	13.5	_	4.12	4.12	_	_	_	-	_	_	_
Onsite truck	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	0.00
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.66	3.65	32.5	0.06	0.14	_	0.14	0.14	_	0.14	_	6,341	6,341	0.26	0.05	_	6,363
Dust From Material Movemen:	<u> </u>	-	-	-	-	-	4.62	4.62	-	1.41	1.41	_	-	-	_	-	-	-
Onsite truck	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	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.12	0.67	5.92	0.01	0.03	_	0.03	0.02	_	0.02	_	1,050	1,050	0.04	0.01	_	1,053
Dust From Material Movemen:	<u> </u>	-	_	-	-	-	0.84	0.84	_	0.26	0.26		_	_	_	_	_	_
Onsite truck	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	0.00
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	-	_	_	-	_	_	_
Worker	0.20	0.19	0.13	2.28	0.00	0.00	0.34	0.34	0.00	0.08	0.08	_	378	378	0.02	0.01	1.51	384
Vendor	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	0.00
Hauling	0.17	0.10	5.28	1.25	0.03	0.08	1.13	1.21	0.08	0.31	0.39	_	4,355	4,355	0.09	0.69	10.5	4,573

Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.18	0.16	0.16	1.80	0.00	0.00	0.34	0.34	0.00	0.08	0.08	_	342	342	0.02	0.01	0.04	346
Vendor	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	0.00
Hauling	0.17	0.10	5.63	1.25	0.03	0.08	1.13	1.21	0.08	0.31	0.39	_	4,357	4,357	0.09	0.69	0.27	4,565
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.06	0.06	0.05	0.63	0.00	0.00	0.11	0.11	0.00	0.03	0.03	_	120	120	0.01	< 0.005	0.22	122
Vendor	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	0.00
Hauling	0.06	0.03	1.89	0.43	0.01	0.03	0.39	0.41	0.03	0.11	0.13	_	1,492	1,492	0.03	0.24	1.54	1,564
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.01	0.01	0.01	0.12	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	_	19.9	19.9	< 0.005	< 0.005	0.04	20.2
Vendor	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	0.00
Hauling	0.01	0.01	0.34	0.08	< 0.005	0.01	0.07	0.08	0.01	0.02	0.02	_	247	247	0.01	0.04	0.26	259

3.8. Grading (2024) - Mitigated

Location	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		1.92	10.7	94.8	0.17	0.40	_	0.40	0.40	_	0.40	_	18,516	18,516	0.75	0.15	_	18,580
Dust From Material Movemen		_	_	_	_	_	5.26	5.26	_	1.61	1.61	_	_	_	_	_	_	_
Onsite truck	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	0.00

Daily, Winter (Max)	_			_	_	_	_	_	_		_	_	_	_	_	_	_	_
Off-Road Equipment		1.92	10.7	94.8	0.17	0.40	_	0.40	0.40	_	0.40	_	18,516	18,516	0.75	0.15	_	18,580
Dust From Material Movement	_	-	_	_	-	_	5.26	5.26	_	1.61	1.61	_	-	_	-	_	_	_
Onsite truck	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	0.00
Average Daily	_	_	_	_	-	_	_	_	-	_	_	-	-	_	_	_	_	_
Off-Road Equipment		0.66	3.65	32.5	0.06	0.14	_	0.14	0.14	_	0.14	-	6,341	6,341	0.26	0.05	_	6,363
Dust From Material Movement	_	-	-	-	-	_	1.80	1.80	-	0.55	0.55	_	-	_	_	_	-	-
Onsite truck	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	0.00
Annual	_	_		<u> </u>		_		_	_	_	<u> </u>	_	_	_	_	_	_	_
Off-Road Equipment		0.12	0.67	5.92	0.01	0.03	-	0.03	0.02	-	0.02	-	1,050	1,050	0.04	0.01	-	1,053
Dust From Material Movement		-	-		-	_	0.33	0.33	_	0.10	0.10	_	_	_	_	_	_	_
Onsite truck	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	0.00
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	-	_	_	_	_	_	-	_	-	_	_	_	_	_	_
Worker	0.20	0.19	0.13	2.28	0.00	0.00	0.34	0.34	0.00	0.08	0.08	_	378	378	0.02	0.01	1.51	384

Vendor	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	0.00
Hauling	0.17	0.10	5.28	1.25	0.03	0.08	1.13	1.21	0.08	0.31	0.39	_	4,355	4,355	0.09	0.69	10.5	4,573
Daily, Winter (Max)	_	_	_	_	_	_		_	_	_	_	_	_	_	_	_	_	_
Worker	0.18	0.16	0.16	1.80	0.00	0.00	0.34	0.34	0.00	0.08	0.08	_	342	342	0.02	0.01	0.04	346
Vendor	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	0.00
Hauling	0.17	0.10	5.63	1.25	0.03	0.08	1.13	1.21	0.08	0.31	0.39	_	4,357	4,357	0.09	0.69	0.27	4,565
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.06	0.06	0.05	0.63	0.00	0.00	0.11	0.11	0.00	0.03	0.03	_	120	120	0.01	< 0.005	0.22	122
Vendor	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	0.00
Hauling	0.06	0.03	1.89	0.43	0.01	0.03	0.39	0.41	0.03	0.11	0.13	-	1,492	1,492	0.03	0.24	1.54	1,564
Annual	_	_	_	_	_	_	<u> </u>	_	_	_	_	-	_	_	_	_	_	_
Worker	0.01	0.01	0.01	0.12	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	_	19.9	19.9	< 0.005	< 0.005	0.04	20.2
Vendor	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	0.00
Hauling	0.01	0.01	0.34	0.08	< 0.005	0.01	0.07	0.08	0.01	0.02	0.02	_	247	247	0.01	0.04	0.26	259

3.9. Off-site Grading (2024) - Unmitigated

Location	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	всо2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		1.03	7.36	43.0	0.07	0.23	_	0.23	0.22	_	0.22	_	7,903	7,903	0.32	0.06	_	7,930

Dust From Material Movemen	<u> </u>	_	_	_	_	_	8.14	8.14	_	3.54	3.54	_	_	_	_	_	_	_
Onsite truck	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	0.00
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.02	0.14	0.81	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	148	148	0.01	< 0.005	_	149
Dust From Material Movemen	<u> </u>	_	_	_	_	_	0.15	0.15	_	0.07	0.07	_	_	_	_	_	_	_
Onsite truck	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	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		< 0.005	0.03	0.15	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	24.6	24.6	< 0.005	< 0.005	_	24.7
Dust From Material Movemen	_	_	_	_	_	_	0.03	0.03	_	0.01	0.01	_	_	_	_	_	_	_
Onsite truck	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	0.00
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_		_	_	_	_	_	_	_	_	-	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.13	0.12	0.12	1.35	0.00	0.00	0.25	0.25	0.00	0.06	0.06	_	256	256	0.02	0.01	0.03	260
Vendor	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	0.00
Hauling	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	0.00

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Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	_	4.93	4.93	< 0.005	< 0.005	0.01	5.01
Vendor	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	0.00
Hauling	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	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	_	0.82	0.82	< 0.005	< 0.005	< 0.005	0.83
Vendor	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	0.00
Hauling	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	0.00

3.10. Off-site Grading (2024) - Mitigated

Location	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		1.03	7.36	43.0	0.07	0.23	_	0.23	0.22	_	0.22	_	7,903	7,903	0.32	0.06	_	7,930
Dust From Material Movemen	_	_	_	_	_	_	3.18	3.18	_	1.38	1.38	_	_	_	_	_	_	_
Onsite truck	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	0.00
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.02	0.14	0.81	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	148	148	0.01	< 0.005	_	149

Dust	_	_	_	_		_	0.06	0.06	_	0.03	0.03	_		_		_	_	
From Material Movemen	T.						0.00	0.00		0.00	0.00							
Onsite ruck	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	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		< 0.005	0.03	0.15	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	24.6	24.6	< 0.005	< 0.005	_	24.7
Dust From Material Movemen			_				0.01	0.01		< 0.005	< 0.005	_	_		_		_	_
Onsite truck	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	0.00
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	-	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	-	_	_	_	_	_	_
Worker	0.13	0.12	0.12	1.35	0.00	0.00	0.25	0.25	0.00	0.06	0.06	_	256	256	0.02	0.01	0.03	260
Vendor	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	0.00
Hauling	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	0.00
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	_	4.93	4.93	< 0.005	< 0.005	0.01	5.01
Vendor	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	0.00
Hauling	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	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	_	0.82	0.82	< 0.005	< 0.005	< 0.005	0.83
Vendor	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	0.00

Hauling	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	0.00
riadiling	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	0.00

3.11. Off-site Grading (2025) - Unmitigated

Location	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	_	_	<u> </u>	_	_	_	_	_	_	_	<u> </u>	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		1.02	7.32	43.0	0.07	0.22	_	0.22	0.21	_	0.21	_	7,908	7,908	0.32	0.06	_	7,935
Dust From Material Movemen	<u> </u>	_	_	-	_	_	8.14	8.14	_	3.54	3.54	_	_	_	-	-	_	_
Onsite truck	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	0.00
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	-
Off-Road Equipmen		1.02	7.32	43.0	0.07	0.22	_	0.22	0.21	_	0.21	_	7,908	7,908	0.32	0.06	_	7,935
Dust From Material Movemen		_	_	-	-	_	8.14	8.14	_	3.54	3.54	_	_	_	-	_	_	_
Onsite truck	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	0.00
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.83	6.00	35.2	0.06	0.18	_	0.18	0.17	_	0.17	_	6,481	6,481	0.26	0.05	_	6,503

Dust From Material Movemen	_	_	_	_	_	_	6.67	6.67	_	2.90	2.90	_	_	_	_	_	_	_
Onsite truck	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	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.15	1.09	6.43	0.01	0.03	_	0.03	0.03	_	0.03	_	1,073	1,073	0.04	0.01	_	1,077
Dust From Material Movemen	_	_	_	-	_	_	1.22	1.22	_	0.53	0.53	_	_	_	_	_	_	_
Onsite truck	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	0.00
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.14	0.13	0.08	1.56	0.00	0.00	0.25	0.25	0.00	0.06	0.06	_	278	278	0.01	0.01	1.03	282
Vendor	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	0.00
Hauling	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	0.00
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.13	0.11	0.11	1.24	0.00	0.00	0.25	0.25	0.00	0.06	0.06	_	251	251	0.01	0.01	0.03	254
Vendor	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	0.00
Hauling	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	0.00
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.10	0.09	0.08	1.04	0.00	0.00	0.21	0.21	0.00	0.05	0.05	_	211	211	0.01	0.01	0.36	214
Vendor	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	0.00
Hauling	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	0.00

Annual	_	_	_	_	_	_	<u> </u>	_	_	_	_	_	_	_	_	_	_	_
Worker	0.02	0.02	0.01	0.19	0.00	0.00	0.04	0.04	0.00	0.01	0.01	_	34.9	34.9	< 0.005	< 0.005	0.06	35.4
Vendor	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	0.00
Hauling	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	0.00

3.12. Off-site Grading (2025) - Mitigated

Location	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	-	_	_	-	_	_	_	-	_	_
Off-Road Equipmen		1.02	7.32	43.0	0.07	0.22	_	0.22	0.21	_	0.21	_	7,908	7,908	0.32	0.06	_	7,935
Dust From Material Movemen	<u> </u>	_	_	_	_	_	3.18	3.18	_	1.38	1.38	_	_	_	_	_	_	_
Onsite truck	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	0.00
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		1.02	7.32	43.0	0.07	0.22	_	0.22	0.21	_	0.21	_	7,908	7,908	0.32	0.06	_	7,935
Dust From Material Movemen		_	_	_	_	_	3.18	3.18	_	1.38	1.38	_	_	_	_	_	_	_
Onsite truck	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	0.00
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

Off-Road Equipmen		0.83	6.00	35.2	0.06	0.18	_	0.18	0.17	_	0.17	_	6,481	6,481	0.26	0.05	_	6,503
Dust From Material Movemen	<u> </u>	_	_	_	_	_	2.60	2.60	_	1.13	1.13	_	_	_	_	_	_	_
Onsite truck	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	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.15	1.09	6.43	0.01	0.03	_	0.03	0.03	_	0.03	-	1,073	1,073	0.04	0.01	_	1,077
Dust From Material Movemen		_	_	-	_	-	0.48	0.48	-	0.21	0.21	_	_	_	_	-	_	_
Onsite truck	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	0.00
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.14	0.13	0.08	1.56	0.00	0.00	0.25	0.25	0.00	0.06	0.06	_	278	278	0.01	0.01	1.03	282
Vendor	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	0.00
Hauling	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	0.00
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.13	0.11	0.11	1.24	0.00	0.00	0.25	0.25	0.00	0.06	0.06	_	251	251	0.01	0.01	0.03	254
Vendor	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	0.00
Hauling	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	0.00
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.10	0.09	0.08	1.04	0.00	0.00	0.21	0.21	0.00	0.05	0.05	_	211	211	0.01	0.01	0.36	214

Vendor	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	0.00
Hauling	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	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_		_	_	_	_
Worker	0.02	0.02	0.01	0.19	0.00	0.00	0.04	0.04	0.00	0.01	0.01	_	34.9	34.9	< 0.005	< 0.005	0.06	35.4
Vendor	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	0.00
Hauling	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	0.00

3.13. Phase 1 - Building Construction (2024) - Unmitigated

Location	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		1.15	11.6	26.0	0.04	0.27	_	0.27	0.25	_	0.25	_	4,347	4,347	0.18	0.04	_	4,362
Onsite truck	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	0.00
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.02	0.25	0.55	< 0.005	0.01	_	0.01	0.01	_	0.01	_	91.9	91.9	< 0.005	< 0.005	_	92.2
Onsite truck	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	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		< 0.005	0.04	0.10	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	15.2	15.2	< 0.005	< 0.005	_	15.3

Onsite truck	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	0.00
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	3.26	2.97	3.00	33.0	0.00	0.00	6.16	6.16	0.00	1.44	1.44	_	6,258	6,258	0.39	0.26	0.72	6,345
Vendor	0.46	0.30	11.2	3.69	0.06	0.11	2.18	2.30	0.11	0.60	0.72	_	8,242	8,242	0.15	1.26	0.58	8,620
Hauling	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	0.00
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.07	0.06	0.06	0.71	0.00	0.00	0.13	0.13	0.00	0.03	0.03	_	136	136	0.01	0.01	0.25	138
Vendor	0.01	0.01	0.23	0.08	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.02	_	174	174	< 0.005	0.03	0.20	182
Hauling	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	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	-	_	_
Worker	0.01	0.01	0.01	0.13	0.00	0.00	0.02	0.02	0.00	0.01	0.01	_	22.4	22.4	< 0.005	< 0.005	0.04	22.8
Vendor	< 0.005	< 0.005	0.04	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	_	28.8	28.8	< 0.005	< 0.005	0.03	30.2
Hauling	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	0.00

3.14. Phase 1 - Building Construction (2024) - Mitigated

		(1107 0101,	,	J, J		,			· J ,	. ,	/							
Location	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	_	_	_	_	_	_	<u> </u>	_	<u> </u>	_	_	_	_	<u> </u>	<u> </u>	_	_	_
Daily,	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Summer																		
(Max)																		

Daily, Winter	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
(Max) Off-Road	1 24	1.15	11.6	26.0	0.04	0.27		0.27	0.25		0.25		4,347	4,347	0.18	0.04		4.262
Equipmen		1.15	11.0	26.0	0.04	0.27		0.27	0.25		0.25		4,347	4,347	0.16	0.04		4,362
Onsite truck	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	0.00
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.02	0.25	0.55	< 0.005	0.01	_	0.01	0.01	_	0.01	_	91.9	91.9	< 0.005	< 0.005	_	92.2
Onsite truck	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	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		< 0.005	0.04	0.10	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	15.2	15.2	< 0.005	< 0.005	_	15.3
Onsite truck	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	0.00
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	3.26	2.97	3.00	33.0	0.00	0.00	6.16	6.16	0.00	1.44	1.44	_	6,258	6,258	0.39	0.26	0.72	6,345
Vendor	0.46	0.30	11.2	3.69	0.06	0.11	2.18	2.30	0.11	0.60	0.72	_	8,242	8,242	0.15	1.26	0.58	8,620
Hauling	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	0.00
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.07	0.06	0.06	0.71	0.00	0.00	0.13	0.13	0.00	0.03	0.03	_	136	136	0.01	0.01	0.25	138
Vendor	0.01	0.01	0.23	0.08	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.02	_	174	174	< 0.005	0.03	0.20	182
Hauling	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	0.00

Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	-	_	_	_
Worker	0.01	0.01	0.01	0.13	0.00	0.00	0.02	0.02	0.00	0.01	0.01	_	22.4	22.4	< 0.005	< 0.005	0.04	22.8
Vendor	< 0.005	< 0.005	0.04	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	_	28.8	28.8	< 0.005	< 0.005	0.03	30.2
Hauling	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	0.00

3.15. Phase 1 - Building Construction (2025) - Unmitigated

Location	TOG	ROG	NOx	СО	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		1.13	11.6	26.0	0.04	0.26	_	0.26	0.24	_	0.24	_	4,347	4,347	0.18	0.04	_	4,362
Onsite truck	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	0.00
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	-
Off-Road Equipmen		1.13	11.6	26.0	0.04	0.26	_	0.26	0.24	_	0.24	_	4,347	4,347	0.18	0.04	_	4,362
Onsite truck	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	0.00
Average Daily	_	-	_	-	_	_	_	_	_	_	-	_	_	_	_	-	_	_
Off-Road Equipmen		0.96	9.85	22.1	0.04	0.22	_	0.22	0.21	_	0.21	_	3,706	3,706	0.15	0.03	_	3,719
Onsite truck	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	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.18	1.80	4.04	0.01	0.04	_	0.04	0.04	_	0.04	_	614	614	0.02	< 0.005	_	616

Onsite truck	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	0.00
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	-	_	-	_	_	_	-	_	_	_	-
Worker	3.32	3.07	2.07	38.2	0.00	0.00	6.16	6.16	0.00	1.44	1.44	_	6,780	6,780	0.32	0.26	25.2	6,890
Vendor	0.43	0.27	10.1	3.43	0.06	0.11	2.18	2.30	0.11	0.60	0.72	_	8,098	8,098	0.15	1.20	22.2	8,481
Hauling	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	0.00
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	3.10	2.81	2.76	30.3	0.00	0.00	6.16	6.16	0.00	1.44	1.44	_	6,127	6,127	0.18	0.26	0.65	6,208
Vendor	0.41	0.24	10.7	3.50	0.06	0.11	2.18	2.30	0.11	0.60	0.72	_	8,104	8,104	0.15	1.20	0.58	8,466
Hauling	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	0.00
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	2.64	2.41	1.97	26.5	0.00	0.00	5.23	5.23	0.00	1.22	1.22	_	5,353	5,353	0.14	0.22	9.27	5,431
Vendor	0.36	0.22	8.93	2.97	0.05	0.10	1.85	1.95	0.10	0.51	0.61	_	6,905	6,905	0.13	1.02	8.18	7,221
Hauling	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	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.48	0.44	0.36	4.83	0.00	0.00	0.95	0.95	0.00	0.22	0.22	_	886	886	0.02	0.04	1.54	899
Vendor	0.07	0.04	1.63	0.54	0.01	0.02	0.34	0.36	0.02	0.09	0.11	_	1,143	1,143	0.02	0.17	1.35	1,196
Hauling	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	0.00

3.16. Phase 1 - Building Construction (2025) - Mitigated

Location	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	-	_	_	_	_	_	_
Off-Road Equipmen		1.13	11.6	26.0	0.04	0.26	_	0.26	0.24	_	0.24	-	4,347	4,347	0.18	0.04	_	4,362
Onsite truck	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	0.00
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		1.13	11.6	26.0	0.04	0.26	_	0.26	0.24	_	0.24	_	4,347	4,347	0.18	0.04	_	4,362
Onsite truck	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	0.00
Average Daily	_	_	-	_	_	_	-	-	_	_	_	-	_	_	_	_	-	-
Off-Road Equipmen		0.96	9.85	22.1	0.04	0.22	_	0.22	0.21	_	0.21	-	3,706	3,706	0.15	0.03	_	3,719
Onsite truck	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	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.18	1.80	4.04	0.01	0.04	-	0.04	0.04	-	0.04	-	614	614	0.02	< 0.005	-	616
Onsite truck	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	0.00
Offsite	_	_	_	<u> </u>	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	-	-	_	-	-	-	_	_	_	_	_	_	_	-	_	-
Worker	3.32	3.07	2.07	38.2	0.00	0.00	6.16	6.16	0.00	1.44	1.44	_	6,780	6,780	0.32	0.26	25.2	6,890
Vendor	0.43	0.27	10.1	3.43	0.06	0.11	2.18	2.30	0.11	0.60	0.72	_	8,098	8,098	0.15	1.20	22.2	8,481
Hauling	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	0.00

Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	3.10	2.81	2.76	30.3	0.00	0.00	6.16	6.16	0.00	1.44	1.44	-	6,127	6,127	0.18	0.26	0.65	6,208
Vendor	0.41	0.24	10.7	3.50	0.06	0.11	2.18	2.30	0.11	0.60	0.72	_	8,104	8,104	0.15	1.20	0.58	8,466
Hauling	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	0.00
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	2.64	2.41	1.97	26.5	0.00	0.00	5.23	5.23	0.00	1.22	1.22	_	5,353	5,353	0.14	0.22	9.27	5,431
Vendor	0.36	0.22	8.93	2.97	0.05	0.10	1.85	1.95	0.10	0.51	0.61	_	6,905	6,905	0.13	1.02	8.18	7,221
Hauling	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	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.48	0.44	0.36	4.83	0.00	0.00	0.95	0.95	0.00	0.22	0.22	_	886	886	0.02	0.04	1.54	899
Vendor	0.07	0.04	1.63	0.54	0.01	0.02	0.34	0.36	0.02	0.09	0.11	_	1,143	1,143	0.02	0.17	1.35	1,196
Hauling	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	0.00

3.17. Phase 2 - Building Construction (2025) - Unmitigated

Location	TOG	ROG	NOx	СО	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.90	9.82	22.8	0.04	0.19	_	0.19	0.18	_	0.18	_	3,835	3,835	0.16	0.03	_	3,848
Onsite truck	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	0.00

Average Daily	_		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.01	0.07	0.16	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	27.0	27.0	< 0.005	< 0.005	_	27.1
Onsite truck	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	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		< 0.005	0.01	0.03	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	-	4.47	4.47	< 0.005	< 0.005	_	4.49
Onsite truck	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	0.00
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	-	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	3.10	2.81	2.76	30.3	0.00	0.00	6.16	6.16	0.00	1.44	1.44	_	6,127	6,127	0.18	0.26	0.65	6,208
Vendor	0.41	0.24	10.7	3.50	0.06	0.11	2.18	2.30	0.11	0.60	0.72	_	8,104	8,104	0.15	1.20	0.58	8,466
Hauling	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	0.00
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.02	0.02	0.02	0.22	0.00	0.00	0.04	0.04	0.00	0.01	0.01	_	44.2	44.2	< 0.005	< 0.005	0.08	44.9
Vendor	< 0.005	< 0.005	0.07	0.02	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	_	57.1	57.1	< 0.005	0.01	0.07	59.7
Hauling	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	0.00
Annual	_	_	_	_	_	_	_	-	_	_	_	_	_	_	<u> </u>	_	_	_
Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	_	7.32	7.32	< 0.005	< 0.005	0.01	7.43
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	_	9.45	9.45	< 0.005	< 0.005	0.01	9.88
Hauling	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	0.00

3.18. Phase 2 - Building Construction (2025) - Mitigated

Location	TOG	ROG	NOx	СО	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	_	_	_	_	<u> </u>	_	<u> </u>	_	_	<u> </u>	_	_	_	_	<u> </u>	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.90	9.82	22.8	0.04	0.19	_	0.19	0.18	_	0.18	_	3,835	3,835	0.16	0.03	_	3,848
Onsite truck	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	0.00
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.01	0.07	0.16	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	-	27.0	27.0	< 0.005	< 0.005	_	27.1
Onsite truck	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	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		< 0.005	0.01	0.03	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	-	4.47	4.47	< 0.005	< 0.005	_	4.49
Onsite truck	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	0.00
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

Worker	3.10	2.81	2.76	30.3	0.00	0.00	6.16	6.16	0.00	1.44	1.44	-	6,127	6,127	0.18	0.26	0.65	6,208
Vendor	0.41	0.24	10.7	3.50	0.06	0.11	2.18	2.30	0.11	0.60	0.72	_	8,104	8,104	0.15	1.20	0.58	8,466
Hauling	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	0.00
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.02	0.02	0.02	0.22	0.00	0.00	0.04	0.04	0.00	0.01	0.01	_	44.2	44.2	< 0.005	< 0.005	0.08	44.9
Vendor	< 0.005	< 0.005	0.07	0.02	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	_	57.1	57.1	< 0.005	0.01	0.07	59.7
Hauling	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	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	_	7.32	7.32	< 0.005	< 0.005	0.01	7.43
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	_	9.45	9.45	< 0.005	< 0.005	0.01	9.88
Hauling	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	0.00

3.19. Phase 2 - Building Construction (2026) - Unmitigated

			,	<i>y</i> ,, <i>y</i> .		,		,										
Location	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	всо2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	_	_	_	_	_	_	_	_	_	_	<u> </u>	_	_	<u> </u>	<u> </u>	<u> </u>	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.89	9.77	22.7	0.04	0.18	_	0.18	0.17	_	0.17	_	3,834	3,834	0.16	0.03	_	3,848
Onsite truck	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	0.00
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.89	9.77	22.7	0.04	0.18	_	0.18	0.17	_	0.17	_	3,834	3,834	0.16	0.03	_	3,848

Onsite truck	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	0.00
Average Daily	_	-	_	_	_	-	_	_	_	_	_	_	_	_	_	_	_	-
Off-Road Equipmen		0.48	5.34	12.4	0.02	0.10	_	0.10	0.09	_	0.09	_	2,098	2,098	0.09	0.02	_	2,105
Onsite truck	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	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.09	0.98	2.27	< 0.005	0.02		0.02	0.02	_	0.02	_	347	347	0.01	< 0.005	_	349
Onsite truck	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	0.00
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_		_	_	_	_	-	_
Worker	3.11	2.87	1.85	35.3	0.00	0.00	6.16	6.16	0.00	1.44	1.44	_	6,638	6,638	0.13	0.24	22.8	6,736
Vendor	0.42	0.25	9.63	3.24	0.06	0.11	2.18	2.30	0.11	0.60	0.72	_	7,951	7,951	0.15	1.20	19.5	8,332
Hauling	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	0.00
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	2.94	2.66	2.33	28.0	0.00	0.00	6.16	6.16	0.00	1.44	1.44	_	6,000	6,000	0.16	0.26	0.59	6,081
Vendor	0.41	0.24	10.2	3.35	0.06	0.11	2.18	2.30	0.11	0.60	0.72	_	7,958	7,958	0.15	1.20	0.51	8,320
Hauling	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	0.00
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	-	_	_	_	_	_
Worker	1.60	1.46	1.14	15.7	0.00	0.00	3.35	3.35	0.00	0.79	0.79	_	3,365	3,365	0.08	0.14	5.38	3,414
Vendor	0.23	0.14	5.49	1.80	0.03	0.06	1.19	1.25	0.06	0.33	0.39	_	4,352	4,352	0.08	0.66	4.62	4,554
Hauling	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	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

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Worker	0.29	0.27	0.21	2.86	0.00	0.00	0.61	0.61	0.00	0.14	0.14	_	557	557	0.01	0.02	0.89	565
Vendor	0.04	0.03	1.00	0.33	0.01	0.01	0.22	0.23	0.01	0.06	0.07	_	721	721	0.01	0.11	0.77	754
Hauling	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	0.00

3.20. Phase 2 - Building Construction (2026) - Mitigated

Location	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.89	9.77	22.7	0.04	0.18	_	0.18	0.17	_	0.17	_	3,834	3,834	0.16	0.03	_	3,848
Onsite truck	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	0.00
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_		_	_	_	_	_	
Off-Road Equipmen		0.89	9.77	22.7	0.04	0.18	_	0.18	0.17	_	0.17	_	3,834	3,834	0.16	0.03	_	3,848
Onsite truck	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	0.00
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.48	5.34	12.4	0.02	0.10	_	0.10	0.09	_	0.09	_	2,098	2,098	0.09	0.02	_	2,105
Onsite truck	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	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.09	0.98	2.27	< 0.005	0.02	_	0.02	0.02	_	0.02	_	347	347	0.01	< 0.005	_	349

Onsite truck	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	0.00
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	-	_	_	_	_	_	_	-	_	_		_	_	-	_	_	_	_
Worker	3.11	2.87	1.85	35.3	0.00	0.00	6.16	6.16	0.00	1.44	1.44	_	6,638	6,638	0.13	0.24	22.8	6,736
Vendor	0.42	0.25	9.63	3.24	0.06	0.11	2.18	2.30	0.11	0.60	0.72	_	7,951	7,951	0.15	1.20	19.5	8,332
Hauling	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	0.00
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	2.94	2.66	2.33	28.0	0.00	0.00	6.16	6.16	0.00	1.44	1.44	_	6,000	6,000	0.16	0.26	0.59	6,081
Vendor	0.41	0.24	10.2	3.35	0.06	0.11	2.18	2.30	0.11	0.60	0.72	_	7,958	7,958	0.15	1.20	0.51	8,320
Hauling	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	0.00
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	1.60	1.46	1.14	15.7	0.00	0.00	3.35	3.35	0.00	0.79	0.79	_	3,365	3,365	0.08	0.14	5.38	3,414
Vendor	0.23	0.14	5.49	1.80	0.03	0.06	1.19	1.25	0.06	0.33	0.39	_	4,352	4,352	0.08	0.66	4.62	4,554
Hauling	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	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.29	0.27	0.21	2.86	0.00	0.00	0.61	0.61	0.00	0.14	0.14	_	557	557	0.01	0.02	0.89	565
Vendor	0.04	0.03	1.00	0.33	0.01	0.01	0.22	0.23	0.01	0.06	0.07	_	721	721	0.01	0.11	0.77	754
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	<u> </u>	0.00	0.00	0.00	0.00	0.00	0.00

3.21. Off-site Paving (2025) - Unmitigated

Location	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.39	2.38	10.6	0.01	0.10	_	0.10	0.10	_	0.10	_	1,511	1,511	0.06	0.01	_	1,517
Paving	_	3.44		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Onsite truck	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	0.00
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.05	0.31	1.39	< 0.005	0.01	_	0.01	0.01	_	0.01	-	199	199	0.01	< 0.005	_	199
Paving	_	0.45	_	_	_	_	_	-	_	_	_	_	_	_	_	_	_	_
Onsite truck	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	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.01	0.06	0.25	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	-	32.9	32.9	< 0.005	< 0.005	_	33.0
Paving	_	0.08	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Onsite truck	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	0.00
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_			_	_	_	_	_	_	_	_	_	<u> </u>	_	_	_
Worker	0.06	0.06	0.06	0.62	0.00	0.00	0.13	0.13	0.00	0.03	0.03	_	125	125	< 0.005	0.01	0.01	127
Vendor	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	0.00

Hauling	0.03	0.01	1.07	0.25	0.01	0.02	0.22	0.24	0.02	0.06	0.08	_	841	841	0.02	0.13	0.05	880
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.01	0.01	0.01	0.08	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	_	16.9	16.9	< 0.005	< 0.005	0.03	17.1
Vendor	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	0.00
Hauling	< 0.005	< 0.005	0.14	0.03	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	_	111	111	< 0.005	0.02	0.12	116
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	_	2.80	2.80	< 0.005	< 0.005	< 0.005	2.84
Vendor	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	0.00
Hauling	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	_	18.3	18.3	< 0.005	< 0.005	0.02	19.2

3.22. Off-site Paving (2025) - Mitigated

	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T			PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_		_	_	_
Off-Road Equipmer		0.39	2.38	10.6	0.01	0.10	_	0.10	0.10	_	0.10	_	1,511	1,511	0.06	0.01	_	1,517
Paving	_	3.44	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Onsite truck	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	0.00
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmer		0.05	0.31	1.39	< 0.005	0.01	_	0.01	0.01	_	0.01	_	199	199	0.01	< 0.005	_	199

Paving	_	0.45	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Onsite truck	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	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmer		0.01	0.06	0.25	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	32.9	32.9	< 0.005	< 0.005	_	33.0
Paving	_	0.08	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Onsite truck	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	0.00
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.06	0.06	0.06	0.62	0.00	0.00	0.13	0.13	0.00	0.03	0.03	_	125	125	< 0.005	0.01	0.01	127
Vendor	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	0.00
Hauling	0.03	0.01	1.07	0.25	0.01	0.02	0.22	0.24	0.02	0.06	0.08	_	841	841	0.02	0.13	0.05	880
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.01	0.01	0.01	0.08	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	_	16.9	16.9	< 0.005	< 0.005	0.03	17.1
Vendor	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	0.00
Hauling	< 0.005	< 0.005	0.14	0.03	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	_	111	111	< 0.005	0.02	0.12	116
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	_	2.80	2.80	< 0.005	< 0.005	< 0.005	2.84
Vendor	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	0.00
Hauling	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	_	18.3	18.3	< 0.005	< 0.005	0.02	19.2

3.23. Off-site Improvements (2025) - Unmitigated

Location	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.18	0.93	13.2	0.02	0.04	_	0.04	0.04	_	0.04	_	1,895	1,895	0.08	0.02	_	1,902
Onsite truck	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	0.00
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.18	0.93	13.2	0.02	0.04	_	0.04	0.04	_	0.04	_	1,895	1,895	0.08	0.02	_	1,902
Onsite truck	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	0.00
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	-	_
Off-Road Equipmen		0.08	0.42	5.91	0.01	0.02	_	0.02	0.02	_	0.02	_	846	846	0.03	0.01	_	849
Onsite truck	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	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.01	0.08	1.08	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	140	140	0.01	< 0.005	_	141
Onsite truck	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	0.00
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.08	0.07	0.05	0.91	0.00	0.00	0.15	0.15	0.00	0.03	0.03	_	162	162	0.01	0.01	0.60	165

Vendor	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	0.00
Hauling	0.03	0.02	0.92	0.22	0.01	0.01	0.20	0.22	0.01	0.06	0.07	_	770	770	0.02	0.12	1.87	808
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	
Worker	0.07	0.07	0.07	0.72	0.00	0.00	0.15	0.15	0.00	0.03	0.03	-	146	146	< 0.005	0.01	0.02	148
Vendor	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	0.00
Hauling	0.03	0.01	0.99	0.22	0.01	0.01	0.20	0.22	0.01	0.06	0.07	-	771	771	0.02	0.12	0.05	807
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.03	0.03	0.02	0.33	0.00	0.00	0.07	0.07	0.00	0.02	0.02	-	67.0	67.0	< 0.005	< 0.005	0.12	67.9
Vendor	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	0.00
Hauling	0.01	0.01	0.43	0.10	< 0.005	0.01	0.09	0.10	0.01	0.02	0.03	-	344	344	0.01	0.05	0.36	361
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.01	0.01	< 0.005	0.06	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	-	11.1	11.1	< 0.005	< 0.005	0.02	11.2
Vendor	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	0.00
Hauling	< 0.005	< 0.005	0.08	0.02	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	_	57.0	57.0	< 0.005	0.01	0.06	59.7

3.24. Off-site Improvements (2025) - Mitigated

Location	TOG	ROG		СО	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.18	0.93	13.2	0.02	0.04	_	0.04	0.04	_	0.04	_	1,895	1,895	0.08	0.02	_	1,902
Onsite truck	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	0.00

Daily, Winter (Max)	_	_	_	_	_	_	_	_	_		_	_	_	_	_	_	_	_
Off-Road Equipmen		0.18	0.93	13.2	0.02	0.04	_	0.04	0.04	_	0.04	_	1,895	1,895	0.08	0.02	_	1,902
Onsite truck	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	0.00
Average Daily	_	_	_	-	_	_	_	_	_	_	-	_	_	_	-	_	_	_
Off-Road Equipmen		0.08	0.42	5.91	0.01	0.02	_	0.02	0.02	_	0.02	_	846	846	0.03	0.01	_	849
Onsite truck	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	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.01	0.08	1.08	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	140	140	0.01	< 0.005	-	141
Onsite truck	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	0.00
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	-	_	_	_	_	_	_	_	_	_	_	-
Worker	0.08	0.07	0.05	0.91	0.00	0.00	0.15	0.15	0.00	0.03	0.03	_	162	162	0.01	0.01	0.60	165
Vendor	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	0.00
Hauling	0.03	0.02	0.92	0.22	0.01	0.01	0.20	0.22	0.01	0.06	0.07	_	770	770	0.02	0.12	1.87	808
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	-	_	_	_
Worker	0.07	0.07	0.07	0.72	0.00	0.00	0.15	0.15	0.00	0.03	0.03	_	146	146	< 0.005	0.01	0.02	148
Vendor	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	0.00
Hauling	0.03	0.01	0.99	0.22	0.01	0.01	0.20	0.22	0.01	0.06	0.07	_	771	771	0.02	0.12	0.05	807
Average Daily	_	_	_	_	_	_	_	_	_	_	-	_	_	_	_	_	_	_

Worker	0.03	0.03	0.02	0.33	0.00	0.00	0.07	0.07	0.00	0.02	0.02	_	67.0	67.0	< 0.005	< 0.005	0.12	67.9
Vendor	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	0.00
Hauling	0.01	0.01	0.43	0.10	< 0.005	0.01	0.09	0.10	0.01	0.02	0.03	_	344	344	0.01	0.05	0.36	361
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.01	0.01	< 0.005	0.06	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	_	11.1	11.1	< 0.005	< 0.005	0.02	11.2
Vendor	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	0.00
Hauling	< 0.005	< 0.005	0.08	0.02	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	_	57.0	57.0	< 0.005	0.01	0.06	59.7

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

Land Use	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unrefrige rated Warehou se-No Rail	18.9	15.4	119	210	1.27	1.88	62.7	64.6	1.79	16.3	18.1	_	132,972	132,972	2.99	15.5	366	138,033
Other Asphalt Surfaces	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	0.00
Total	18.9	15.4	119	210	1.27	1.88	62.7	64.6	1.79	16.3	18.1	_	132,972	132,972	2.99	15.5	366	138,033
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

Unrefrige rated	17.9	14.5	129	175	1.23	1.88	62.7	64.6	1.80	16.3	18.1	_	129,472	129,472	3.08	15.7	9.49	134,227
Other Asphalt Surfaces	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	0.00
Total	17.9	14.5	129	175	1.23	1.88	62.7	64.6	1.80	16.3	18.1	_	129,472	129,472	3.08	15.7	9.49	134,227
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unrefrige rated Warehou se-No Rail	3.28	2.65	22.9	32.7	0.23	0.34	11.4	11.8	0.33	2.96	3.29	_	21,569	21,569	0.50	2.58	26.2	22,377
Other Asphalt Surfaces	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	0.00
Total	3.28	2.65	22.9	32.7	0.23	0.34	11.4	11.8	0.33	2.96	3.29	_	21,569	21,569	0.50	2.58	26.2	22,377

4.1.2. Mitigated

Land Use	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unrefrige rated Warehou se-No Rail	18.9	15.4	119	210	1.27	1.88	62.7	64.6	1.79	16.3	18.1	_	132,972	132,972	2.99	15.5	366	138,033
Other Asphalt Surfaces	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	0.00
Total	18.9	15.4	119	210	1.27	1.88	62.7	64.6	1.79	16.3	18.1	_	132,972	132,972	2.99	15.5	366	138,033

Daily, Winter (Max)	_	_	_	_	_		_			_	_	_			_	_		_
Unrefrige rated Warehou se-No Rail	17.9	14.5	129	175	1.23	1.88	62.7	64.6	1.80	16.3	18.1	_	129,472	129,472	3.08	15.7	9.49	134,227
Other Asphalt Surfaces	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	0.00
Total	17.9	14.5	129	175	1.23	1.88	62.7	64.6	1.80	16.3	18.1	_	129,472	129,472	3.08	15.7	9.49	134,227
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unrefrige rated Warehou se-No Rail	3.28	2.65	22.9	32.7	0.23	0.34	11.4	11.8	0.33	2.96	3.29	_	21,569	21,569	0.50	2.58	26.2	22,377
Other Asphalt Surfaces	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	0.00
Total	3.28	2.65	22.9	32.7	0.23	0.34	11.4	11.8	0.33	2.96	3.29	_	21,569	21,569	0.50	2.58	26.2	22,377

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

• • • • • • • • • • • • • • • • • • • •		(,	,	<i>y</i> ,, <i>y</i> .		,		o, e.e., .e.	C.C,	, ,	Jan 11 1 J. Jan 1							
Land Use	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
(Max)																		

Unrefrige rated Warehou se-No	_	_	_	_	_	_	_	_	_	_	_	-	10,176	10,176	1.65	0.20	_	10,277
Other Asphalt Surfaces	_	_	_	_	_	_	_	_	_	_	_	-	0.00	0.00	0.00	0.00	_	0.00
Total	_	_	_	_	_	_	_	_	_	_	_	_	10,176	10,176	1.65	0.20	_	10,277
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	-	_	_	_	-	_	_
Unrefrige rated Warehou se-No Rail	_	_	_	_	_	_	_	_	_	_	_	_	10,176	10,176	1.65	0.20	_	10,277
Other Asphalt Surfaces	_	_	_	_	_	_	-	_	_	_	_	-	0.00	0.00	0.00	0.00	_	0.00
Total	_	_	_	_	_	_	_	_	_	_	_	_	10,176	10,176	1.65	0.20	_	10,277
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unrefrige rated Warehou se-No Rail	_	_	_	_	_	_	_	_	_	_	_	_	1,685	1,685	0.27	0.03	-	1,701
Other Asphalt Surfaces	_	_	_	_	_	_	_	_	_	_	_	_	0.00	0.00	0.00	0.00	_	0.00
Total	_	_	_	_	_	_	_	_	_	_	_	_	1,685	1,685	0.27	0.03	_	1,701

4.2.2. Electricity Emissions By Land Use - Mitigated

		(, 5.5.	,	<i>y</i> , <i>y</i> .		,		,,	J. J. J.	, ,	J							
Land	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Use																		

Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unrefrige rated Warehou se-No Rail	_	_	_	_	_	_	_	_	_	_	_	_	6,170	6,170	1.00	0.12		6,231
Other Asphalt Surfaces	_	_	_	_	_	_	_	_	_	_	_	_	0.00	0.00	0.00	0.00	_	0.00
Total	_	_	_	_	_	_	_	_	_	_	_	_	6,170	6,170	1.00	0.12	_	6,231
Daily, Winter (Max)	_	_	_	_	_	_	-	_	_	_	-	_	_	-	_	_	_	_
Unrefrige rated Warehou se-No Rail	_	_	_	_	_	_	_	_	_	_	_	_	6,170	6,170	1.00	0.12	_	6,231
Other Asphalt Surfaces	_	_	_	_	_	_	_	_	_	_	_	_	0.00	0.00	0.00	0.00	_	0.00
Total	_	_	_	_	_	_	_	_	_	_	_	_	6,170	6,170	1.00	0.12	_	6,231
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unrefrige rated Warehou se-No Rail	_	_	_	_	_	_	_	_	_	_	_	_	1,021	1,021	0.17	0.02	_	1,032
Other Asphalt Surfaces	_	_	_	_	_	_	_	_	_	_	_	_	0.00	0.00	0.00	0.00	_	0.00
Total	_	_	_	_	_	_	_	_	_	_	_	_	1,021	1,021	0.17	0.02	_	1,032

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Land Use	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unrefrige rated Warehou se-No Rail	0.29	0.14	2.60	2.19	0.02	0.20	_	0.20	0.20	_	0.20	_	3,107	3,107	0.27	0.01	_	3,115
Other Asphalt Surfaces	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
Total	0.29	0.14	2.60	2.19	0.02	0.20	_	0.20	0.20	_	0.20	_	3,107	3,107	0.27	0.01	_	3,115
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unrefrige rated Warehou se-No Rail	0.29	0.14	2.60	2.19	0.02	0.20	_	0.20	0.20	_	0.20	_	3,107	3,107	0.27	0.01	_	3,115
Other Asphalt Surfaces	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
Total	0.29	0.14	2.60	2.19	0.02	0.20	_	0.20	0.20	_	0.20	_	3,107	3,107	0.27	0.01	_	3,115
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unrefrige rated Warehou se-No Rail	0.05	0.03	0.48	0.40	< 0.005	0.04	_	0.04	0.04	_	0.04	_	514	514	0.05	< 0.005	_	516

Other Asphalt Surfaces	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
Total	0.05	0.03	0.48	0.40	< 0.005	0.04	_	0.04	0.04	_	0.04	_	514	514	0.05	< 0.005	_	516

4.2.4. Natural Gas Emissions By Land Use - Mitigated

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Land Use	TOG	ROG	NOx	СО	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unrefrige rated Warehou se-No Rail	0.29	0.14	2.60	2.19	0.02	0.20	_	0.20	0.20	_	0.20	_	3,107	3,107	0.27	0.01	_	3,115
Other Asphalt Surfaces	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
Total	0.29	0.14	2.60	2.19	0.02	0.20	_	0.20	0.20	_	0.20	_	3,107	3,107	0.27	0.01	_	3,115
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	-
Unrefrige rated Warehou se-No Rail	0.29	0.14	2.60	2.19	0.02	0.20	_	0.20	0.20	_	0.20	-	3,107	3,107	0.27	0.01	_	3,115
Other Asphalt Surfaces	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
Total	0.29	0.14	2.60	2.19	0.02	0.20	_	0.20	0.20	_	0.20	_	3,107	3,107	0.27	0.01	_	3,115
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

Unrefrige Warehous Rail		0.03	0.48	0.40	< 0.005	0.04	_	0.04	0.04	_	0.04	_	514	514	0.05	< 0.005	_	516
Other Asphalt Surfaces	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
Total	0.05	0.03	0.48	0.40	< 0.005	0.04	_	0.04	0.04	_	0.04	_	514	514	0.05	< 0.005	_	516

4.3. Area Emissions by Source

4.3.1. Unmitigated

Source	TOG	ROG	NOx	СО	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Consum er Products	_	18.9	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Architect ural Coatings	_	2.43	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Landsca pe Equipme nt	13.5	12.5	0.64	75.9	< 0.005	0.13	_	0.13	0.10	_	0.10	_	312	312	0.01	< 0.005	_	313
Total	13.5	33.8	0.64	75.9	< 0.005	0.13	_	0.13	0.10	_	0.10	_	312	312	0.01	< 0.005	_	313
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Consum er Products	_	18.9	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

Architect ural	_	2.43	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	21.3	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Consum er Products	_	3.45	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Architect ural Coatings		0.44	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Landsca pe Equipme nt	1.21	1.12	0.06	6.83	< 0.005	0.01	_	0.01	0.01	_	0.01	_	25.5	25.5	< 0.005	< 0.005	_	25.6
Total	1.21	5.01	0.06	6.83	< 0.005	0.01	_	0.01	0.01	_	0.01	_	25.5	25.5	< 0.005	< 0.005	_	25.6

4.3.2. Mitigated

Source	TOG	ROG	NOx	СО	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Consum er Products	_	18.9	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Architect ural Coatings	_	2.43	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Landsca pe Equipme nt	13.5	12.5	0.64	75.9	< 0.005	0.13	_	0.13	0.10	_	0.10	_	312	312	0.01	< 0.005	_	313
Total	13.5	33.8	0.64	75.9	< 0.005	0.13	_	0.13	0.10	_	0.10	_	312	312	0.01	< 0.005	_	313

Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Consum er Products	_	18.9	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Architect ural Coatings	_	2.43	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	21.3	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Consum er Products	_	3.45	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Architect ural Coatings	_	0.44	_	-	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Landsca pe Equipme nt	1.21	1.12	0.06	6.83	< 0.005	0.01	_	0.01	0.01	_	0.01	_	25.5	25.5	< 0.005	< 0.005	_	25.6
Total	1.21	5.01	0.06	6.83	< 0.005	0.01	_	0.01	0.01	_	0.01	_	25.5	25.5	< 0.005	< 0.005	_	25.6

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

Land Use	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily,	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Summer																		
(Max)																		

Unrefrige rated Warehou Rail	_	_	_	_	_	_	_	_	_	_	_	773	735	1,509	79.4	1.90	_	4,059
Other Asphalt Surfaces	_	_	-	_	_	_	_	_	_	_	-	0.00	0.00	0.00	0.00	0.00	_	0.00
Total	_	_	_	_	_	_	_	_	_	_	_	773	735	1,509	79.4	1.90	_	4,059
Daily, Winter (Max)	_	_	-	_	_	_	_	_	_	_	_	-	_	-	-	_	_	_
Unrefrige rated Warehou se-No Rail	_	_	_	_	_	_	_	_	_	_	_	773	735	1,509	79.4	1.90	_	4,059
Other Asphalt Surfaces	_	_	_	_	_	_	_	_	_	_	_	0.00	0.00	0.00	0.00	0.00	_	0.00
Total	_	_	_	_	_	_	_	_	_	_	_	773	735	1,509	79.4	1.90	_	4,059
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unrefrige rated Warehou se-No Rail	_	_	_	_	_	_	_	_	_	_	_	128	122	250	13.1	0.31	_	672
Other Asphalt Surfaces	_	_	_	_	_	_	_	_	_	_	_	0.00	0.00	0.00	0.00	0.00	_	0.00
Total	_	_	_	_	_	_	_	_	_	_	_	128	122	250	13.1	0.31	_	672

4.4.2. Mitigated

				,	<i>J</i> , <i>J</i> -				· · · · · · · · · · · · · · · · · · ·			,							
Lar	nd	TOG	ROG	NOx	CO	SO2	IPM10E	PM10D	IPM10T	IPM2.5E	IPM2.5D	IPM2.5T	IBCO2	INBCO2	CO2T	ICH4	IN2O	IR I	CO2e
Use	Э																		

Daily, Summer (Max)	_	_		_		_		_	_			_	_		_		_	
Unrefrige rated Warehou se-No Rail	_	_	_	_	_	_	_	_	_	_	_	773	735	1,509	79.4	1.90	_	4,059
Other Asphalt Surfaces	_	_	_	_	_	_	_	_	_	_	_	0.00	0.00	0.00	0.00	0.00	_	0.00
Total	_	_	_	_	_	_	_	_	_	_	_	773	735	1,509	79.4	1.90	_	4,059
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unrefrige rated Warehou se-No Rail	_	_	_	_	_	_	_	_	_	_	_	773	735	1,509	79.4	1.90	_	4,059
Other Asphalt Surfaces	_	_	_	_	_	_	_	_	_	_	_	0.00	0.00	0.00	0.00	0.00	_	0.00
Total	_	_	_		_	_	_	_	_	_	_	773	735	1,509	79.4	1.90	_	4,059
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unrefrige rated Warehou se-No Rail	_	_	_	_	_	_	_	_	_	_	_	128	122	250	13.1	0.31	_	672
Other Asphalt Surfaces	_	_	_	_	_	_	_	_	_	_	_	0.00	0.00	0.00	0.00	0.00	_	0.00
Total	_	_	_	_	_	_	_	_	_	_	_	128	122	250	13.1	0.31	_	672

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

Land Use	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	СО2Т	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	-
Unrefrige rated Warehou se-No Rail	_	_	_	_	_	_	_	_	_	_	_	884	0.00	884	88.4	0.00	_	3,093
Other Asphalt Surfaces	_	_	-	_	_	_	_	_	_	_	_	0.00	0.00	0.00	0.00	0.00	_	0.00
Total	_	_	_	_	_	_	_	_	_	_	_	884	0.00	884	88.4	0.00	_	3,093
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unrefrige rated Warehou se-No Rail	_	_	_	_	_	_	-	_	_	_	_	884	0.00	884	88.4	0.00	_	3,093
Other Asphalt Surfaces	_	_	_	_	_	_	_	_	_	_	_	0.00	0.00	0.00	0.00	0.00	_	0.00
Total	_	_	_	_	_	_	_	_	_	_	_	884	0.00	884	88.4	0.00	_	3,093
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	<u> </u>	_	_	_	_

Unrefrige rated Warehou se-No Rail	_	_	_	_	_	_	_	_	_	_	_	146	0.00	146	14.6	0.00	_	512
Other Asphalt Surfaces	_	_	_	_	_	_	_	_	_		_	0.00	0.00	0.00	0.00	0.00	_	0.00
Total	_	_	_	_	_	_	_	_	_	_	_	146	0.00	146	14.6	0.00	_	512

4.5.2. Mitigated

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Land Use	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unrefrige rated Warehou se-No Rail	_	_	_	_	_	_	_	_	_	_	_	884	0.00	884	88.4	0.00	_	3,093
Other Asphalt Surfaces	_	_	_	_	_	_	_	_	_	_	_	0.00	0.00	0.00	0.00	0.00	_	0.00
Total	_	_	_	_	_	_	_	_	_	_	_	884	0.00	884	88.4	0.00	_	3,093
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unrefrige rated Warehou se-No Rail		_	_	_	_	_	_	_		_	_	884	0.00	884	88.4	0.00	_	3,093

Other Asphalt Surfaces	_	_	_	_	_	_	_	_	_	_	_	0.00	0.00	0.00	0.00	0.00	_	0.00
Total	_	_	_	_	_	_	_	_	_	_	_	884	0.00	884	88.4	0.00	_	3,093
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unrefrige rated Warehou se-No Rail	_	_	_	_	_	_	_	_	_	_	_	146	0.00	146	14.6	0.00	_	512
Other Asphalt Surfaces	_	_	_	_	_	_	_	_	_	_	_	0.00	0.00	0.00	0.00	0.00	_	0.00
Total	_	_	_	_	_	_	_	_	_	_	_	146	0.00	146	14.6	0.00	_	512

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

		ROG								PM2.5D		BCO2	NBCO2	СО2Т	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_		_	_	_	_	_	_	_		_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_		_	_	_	_	_	_	_		_	_	_	_	_
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

4.6.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

OTITOTIC	Ollataii	10 (10) 44.	y ror dan	<i>y</i> ,, <i>y</i> .						_								
Land Use	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_		_	_	_	_	_	_	_	_	_	_		_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_		_
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

Equipme nt Type	TOG	ROG	NOx	со	SO2	PM10E	PM10D		PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

-																		
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

4.7.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipme nt	TOG	ROG	NOx	СО	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_		_	_	_	_	_		_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

Equipme nt Type	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

Total	_	_	_	-	_	_	_	_	_	_	-	_	_	_	-	_	_	_
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	<u> </u>	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

4.8.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipme nt Type	TOG	ROG		со				PM10T		PM2.5D		BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

Equipme nt Type	TOG	ROG	NOx	СО	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

4.9.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipme nt		ROG		со	SO2		,		PM2.5E	PM2.5D		BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Type Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Vegetatio	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
n																		

Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	<u> </u>	_	_	_	<u> </u>	_	<u> </u>	_	_	_
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	СО	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	<u> </u>	_	_	_	_	_	<u> </u>	_	<u> </u>	_	<u> </u>	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5F	PM2 5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Орослос	100	11100	IIIOA	100	0 0 _	1	1	1 11110	I IVIL.OL	11 1112.00	11.11.2.01	1000	1.1000	0 0	0111	11120	1.5	10020

Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Avoided	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Sequest ered	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Remove d	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Avoided	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Sequest ered	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Remove d	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Avoided	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Sequest ered	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

Remove d	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetatio n	TOG	ROG		со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

4.10.5. Above and Belowground Carbon Accumulation by Land Use Type - Mitigated

Land Use	TOG	ROG		со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	-	_	_	_
Annual	_	_	_	_	_	_	<u> </u>	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	<u> </u>	_	_	_	_	_	_	_	_	_	_	_

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

Species	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	-	_	-	-	_	_	-	-	-	_	-	-	_	_	-	-	-
Avoided	_	_	_		_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Sequest ered	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Remove d	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Avoided	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Sequest ered	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Remove d	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Annual	_	_	<u> </u>	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Avoided	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Sequest ered	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Remove d	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Site Preparation	Site Preparation	7/8/2024	7/26/2024	6.00	17.0	Site Preparation
Phase 1 - Site Finishing	Site Preparation	9/29/2025	11/16/2025	6.00	42.0	Site Finishing (Phase 1)
Phase 2 - Site Finishing	Site Preparation	5/18/2026	7/20/2026	6.00	55.0	Site Finishing (Phase 2)
Grading	Grading	7/29/2024	12/20/2024	6.00	125	Grading
Off-site Grading	Grading	12/24/2024	12/15/2025	6.00	306	Off-Site Grading
Phase 1 - Building Construction	Building Construction	12/23/2024	12/29/2025	6.00	319	Building Construction (Phase 1)
Phase 2 - Building Construction	Building Construction	12/29/2025	8/21/2026	6.00	203	Building Construction (Phase 2)
Off-site Paving	Paving	10/21/2025	12/15/2025	6.00	48.0	Off-Site Paving
Off-site Improvements	Trenching	4/14/2025	10/20/2025	6.00	163	Off-site Improvements

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Site Preparation	Rubber Tired Dozers	Diesel	Tier 4 Final	3.00	8.00	367	0.40
Site Preparation	Tractors/Loaders/Backh oes	Diesel	Tier 4 Final	2.00	8.00	84.0	0.37
Site Preparation	Off-Highway Trucks	Diesel	Tier 4 Final	2.00	8.00	376	0.38
Phase 1 - Site Finishing	Tractors/Loaders/Backh oes	Diesel	Tier 4 Final	1.00	8.00	84.0	0.37
Phase 1 - Site Finishing	Skid Steer Loaders	Diesel	Tier 4 Final	1.00	8.00	71.0	0.37
Phase 1 - Site Finishing	Trenchers	Diesel	Average	1.00	8.00	40.0	0.50
Phase 2 - Site Finishing	Tractors/Loaders/Backh oes	Diesel	Tier 4 Final	1.00	8.00	84.0	0.37
Phase 2 - Site Finishing	Skid Steer Loaders	Diesel	Tier 4 Final	1.00	8.00	71.0	0.37
Phase 2 - Site Finishing	Trenchers	Diesel	Average	1.00	8.00	40.0	0.50
Grading	Graders	Diesel	Tier 4 Final	1.00	8.00	148	0.41
Grading	Excavators	Diesel	Average	2.00	8.00	36.0	0.38
Grading	Tractors/Loaders/Backh oes	Diesel	Tier 4 Final	1.00	8.00	84.0	0.37
Grading	Scrapers	Diesel	Tier 4 Final	6.00	8.00	423	0.48
Grading	Rubber Tired Dozers	Diesel	Tier 4 Final	1.00	8.00	367	0.40
Grading	Off-Highway Trucks	Diesel	Tier 4 Final	3.00	8.00	376	0.38
Grading	Other Construction Equipment	Diesel	Tier 4 Final	2.00	8.00	82.0	0.42
Off-site Grading	Graders	Diesel	Tier 4 Final	1.00	8.00	148	0.41
Off-site Grading	Excavators	Diesel	Average	3.00	8.00	36.0	0.38
Off-site Grading	Tractors/Loaders/Backh oes	Diesel	Tier 4 Final	2.00	8.00	84.0	0.37

Off-site Grading	Scrapers	Diesel	Tier 4 Final	1.00	8.00	423	0.48
Off-site Grading	Rubber Tired Dozers	Diesel	Tier 4 Final	1.00	8.00	367	0.40
Off-site Grading	Forklifts	Diesel	Tier 4 Final	1.00	8.00	82.0	0.20
Off-site Grading	Off-Highway Trucks	Diesel	Tier 4 Final	2.00	8.00	376	0.38
Off-site Grading	Skid Steer Loaders	Diesel	Tier 4 Final	1.00	8.00	71.0	0.37
Phase 1 - Building Construction	Forklifts	Diesel	Tier 4 Final	6.00	8.00	82.0	0.20
Phase 1 - Building Construction	Generator Sets	Diesel	Average	4.00	8.00	14.0	0.74
Phase 1 - Building Construction	Cranes	Diesel	Tier 4 Final	1.00	7.00	367	0.29
Phase 1 - Building Construction	Welders	Diesel	Average	1.00	8.00	46.0	0.45
Phase 1 - Building Construction	Tractors/Loaders/Backh oes	Diesel	Tier 4 Final	3.00	7.00	84.0	0.37
Phase 1 - Building Construction	Aerial Lifts	Diesel	Average	8.00	8.00	46.0	0.31
Phase 2 - Building Construction	Forklifts	Diesel	Tier 4 Final	4.00	8.00	82.0	0.20
Phase 2 - Building Construction	Generator Sets	Diesel	Average	2.00	8.00	14.0	0.74
Phase 2 - Building Construction	Cranes	Diesel	Tier 4 Final	1.00	7.00	367	0.29
Phase 2 - Building Construction	Welders	Diesel	Average	1.00	8.00	46.0	0.45
Phase 2 - Building Construction	Tractors/Loaders/Backh oes	Diesel	Tier 4 Final	3.00	7.00	84.0	0.37
Phase 2 - Building Construction	Aerial Lifts	Diesel	Average	8.00	8.00	46.0	0.31
Off-site Paving	Pavers	Diesel	Tier 4 Final	2.00	8.00	81.0	0.42
Off-site Paving	Paving Equipment	Diesel	Tier 4 Final	2.00	8.00	89.0	0.36
Off-site Paving	Rollers	Diesel	Average	2.00	8.00	36.0	0.38

Off-site Improvements	Forklifts	Diesel	Tier 4 Final	1.00	8.00	82.0	0.20
Off-site Improvements	Tractors/Loaders/Backh	Diesel	Tier 4 Final	6.00	8.00	84.0	0.37

5.2.2. Mitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Site Preparation	Rubber Tired Dozers	Diesel	Tier 4 Final	3.00	8.00	367	0.40
Site Preparation	Tractors/Loaders/Backh oes	Diesel	Tier 4 Final	2.00	8.00	84.0	0.37
Site Preparation	Off-Highway Trucks	Diesel	Tier 4 Final	2.00	8.00	376	0.38
Phase 1 - Site Finishing	Tractors/Loaders/Backh oes	Diesel	Tier 4 Final	1.00	8.00	84.0	0.37
Phase 1 - Site Finishing	Skid Steer Loaders	Diesel	Tier 4 Final	1.00	8.00	71.0	0.37
Phase 1 - Site Finishing	Trenchers	Diesel	Average	1.00	8.00	40.0	0.50
Phase 2 - Site Finishing	Tractors/Loaders/Backh oes	Diesel	Tier 4 Final	1.00	8.00	84.0	0.37
Phase 2 - Site Finishing	Skid Steer Loaders	Diesel	Tier 4 Final	1.00	8.00	71.0	0.37
Phase 2 - Site Finishing	Trenchers	Diesel	Average	1.00	8.00	40.0	0.50
Grading	Graders	Diesel	Tier 4 Final	1.00	8.00	148	0.41
Grading	Excavators	Diesel	Average	2.00	8.00	36.0	0.38
Grading	Tractors/Loaders/Backh oes	Diesel	Tier 4 Final	1.00	8.00	84.0	0.37
Grading	Scrapers	Diesel	Tier 4 Final	6.00	8.00	423	0.48
Grading	Rubber Tired Dozers	Diesel	Tier 4 Final	1.00	8.00	367	0.40
Grading	Off-Highway Trucks	Diesel	Tier 4 Final	3.00	8.00	376	0.38
Grading	Other Construction Equipment	Diesel	Tier 4 Final	2.00	8.00	82.0	0.42
Off-site Grading	Graders	Diesel	Tier 4 Final	1.00	8.00	148	0.41
Off-site Grading	Excavators	Diesel	Average	3.00	8.00	36.0	0.38

Off-site Grading	Tractors/Loaders/Backh	Diesel	Tier 4 Final	2.00	8.00	84.0	0.37
Off-site Grading	Scrapers	Diesel	Tier 4 Final	1.00	8.00	423	0.48
Off-site Grading	Rubber Tired Dozers	Diesel	Tier 4 Final	1.00	8.00	367	0.40
Off-site Grading	Forklifts	Diesel	Tier 4 Final	1.00	8.00	82.0	0.20
Off-site Grading	Off-Highway Trucks	Diesel	Tier 4 Final	2.00	8.00	376	0.38
Off-site Grading	Skid Steer Loaders	Diesel	Tier 4 Final	1.00	8.00	71.0	0.37
Phase 1 - Building Construction	Forklifts	Diesel	Tier 4 Final	6.00	8.00	82.0	0.20
Phase 1 - Building Construction	Generator Sets	Diesel	Average	4.00	8.00	14.0	0.74
Phase 1 - Building Construction	Cranes	Diesel	Tier 4 Final	1.00	7.00	367	0.29
Phase 1 - Building Construction	Welders	Diesel	Average	1.00	8.00	46.0	0.45
Phase 1 - Building Construction	Tractors/Loaders/Backh oes	Diesel	Tier 4 Final	3.00	7.00	84.0	0.37
Phase 1 - Building Construction	Aerial Lifts	Diesel	Average	8.00	8.00	46.0	0.31
Phase 2 - Building Construction	Forklifts	Diesel	Tier 4 Final	4.00	8.00	82.0	0.20
Phase 2 - Building Construction	Generator Sets	Diesel	Average	2.00	8.00	14.0	0.74
Phase 2 - Building Construction	Cranes	Diesel	Tier 4 Final	1.00	7.00	367	0.29
Phase 2 - Building Construction	Welders	Diesel	Average	1.00	8.00	46.0	0.45
Phase 2 - Building Construction	Tractors/Loaders/Backh oes	Diesel	Tier 4 Final	3.00	7.00	84.0	0.37
Phase 2 - Building Construction	Aerial Lifts	Diesel	Average	8.00	8.00	46.0	0.31
Off-site Paving	Pavers	Diesel	Tier 4 Final	2.00	8.00	81.0	0.42
Off-site Paving	Paving Equipment	Diesel	Tier 4 Final	2.00	8.00	89.0	0.36

Off-site Paving	Rollers	Diesel	Average	2.00	8.00	36.0	0.38
Off-site Improvements	Forklifts	Diesel	Tier 4 Final	1.00	8.00	82.0	0.20
Off-site Improvements	Tractors/Loaders/Backh oes	Diesel	Tier 4 Final	6.00	8.00	84.0	0.37

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Site Preparation	_	_	_	_
Site Preparation	Worker	17.5	11.9	LDA,LDT1,LDT2
Site Preparation	Vendor	_	9.10	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	_	_	HHDT
Grading	_	_	_	_
Grading	Worker	40.0	11.9	LDA,LDT1,LDT2
Grading	Vendor	_	9.10	HHDT,MHDT
Grading	Hauling	61.0	20.0	HHDT
Grading	Onsite truck	_	_	HHDT
Phase 1 - Building Construction	_	_	_	_
Phase 1 - Building Construction	Worker	733	11.9	LDA,LDT1,LDT2
Phase 1 - Building Construction	Vendor	286	9.10	HHDT,MHDT
Phase 1 - Building Construction	Hauling	0.00	20.0	HHDT
Phase 1 - Building Construction	Onsite truck	_	_	HHDT
Phase 1 - Site Finishing	_	_	_	_
Phase 1 - Site Finishing	Worker	7.50	11.9	LDA,LDT1,LDT2
Phase 1 - Site Finishing	Vendor	_	9.10	ннот,мнот
Phase 1 - Site Finishing	Hauling	48.0	20.0	HHDT

Phase 1 - Site Finishing	Onsite truck	_	_	HHDT
Phase 2 - Site Finishing	_	_	_	_
Phase 2 - Site Finishing	Worker	7.50	11.9	LDA,LDT1,LDT2
Phase 2 - Site Finishing	Vendor	_	9.10	HHDT,MHDT
Phase 2 - Site Finishing	Hauling	73.0	20.0	HHDT
Phase 2 - Site Finishing	Onsite truck	_	_	HHDT
Off-site Grading	_	_	_	_
Off-site Grading	Worker	30.0	11.9	LDA,LDT1,LDT2
Off-site Grading	Vendor	_	9.10	HHDT,MHDT
Off-site Grading	Hauling	0.00	20.0	HHDT
Off-site Grading	Onsite truck	_	_	HHDT
Phase 2 - Building Construction	_	_	_	_
Phase 2 - Building Construction	Worker	733	11.9	LDA,LDT1,LDT2
Phase 2 - Building Construction	Vendor	286	9.10	HHDT,MHDT
Phase 2 - Building Construction	Hauling	0.00	20.0	HHDT
Phase 2 - Building Construction	Onsite truck	_	_	HHDT
Off-site Paving	_	_	_	_
Off-site Paving	Worker	15.0	11.9	LDA,LDT1,LDT2
Off-site Paving	Vendor	_	9.10	HHDT,MHDT
Off-site Paving	Hauling	12.0	20.0	HHDT
Off-site Paving	Onsite truck	_	_	HHDT
Off-site Improvements	_	_	_	_
Off-site Improvements	Worker	17.5	11.9	LDA,LDT1,LDT2
Off-site Improvements	Vendor	_	9.10	HHDT,MHDT
Off-site Improvements	Hauling	11.0	20.0	HHDT
Off-site Improvements	Onsite truck	_	_	HHDT

5.3.2. Mitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Site Preparation	_	_	_	_
Site Preparation	Worker	17.5	11.9	LDA,LDT1,LDT2
Site Preparation	Vendor	_	9.10	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	_	_	HHDT
Grading	_	_	_	_
Grading	Worker	40.0	11.9	LDA,LDT1,LDT2
Grading	Vendor	_	9.10	ннот,мнот
Grading	Hauling	61.0	20.0	HHDT
Grading	Onsite truck	_	_	HHDT
Phase 1 - Building Construction	_	_	_	_
Phase 1 - Building Construction	Worker	733	11.9	LDA,LDT1,LDT2
Phase 1 - Building Construction	Vendor	286	9.10	ннот,мнот
Phase 1 - Building Construction	Hauling	0.00	20.0	HHDT
Phase 1 - Building Construction	Onsite truck	_	_	HHDT
Phase 1 - Site Finishing	_	_	_	_
Phase 1 - Site Finishing	Worker	7.50	11.9	LDA,LDT1,LDT2
Phase 1 - Site Finishing	Vendor	_	9.10	ннот,мнот
Phase 1 - Site Finishing	Hauling	48.0	20.0	HHDT
Phase 1 - Site Finishing	Onsite truck	_	_	HHDT
Phase 2 - Site Finishing	_	_	_	_
Phase 2 - Site Finishing	Worker	7.50	11.9	LDA,LDT1,LDT2
Phase 2 - Site Finishing	Vendor	_	9.10	ннот,мнот
Phase 2 - Site Finishing	Hauling	73.0	20.0	HHDT
Phase 2 - Site Finishing	Onsite truck	_	_	HHDT

Off-site Grading	_	_	_	_
Off-site Grading	Worker	30.0	11.9	LDA,LDT1,LDT2
Off-site Grading	Vendor	_	9.10	HHDT,MHDT
Off-site Grading	Hauling	0.00	20.0	HHDT
Off-site Grading	Onsite truck	_	_	HHDT
Phase 2 - Building Construction	_	_	_	_
Phase 2 - Building Construction	Worker	733	11.9	LDA,LDT1,LDT2
Phase 2 - Building Construction	Vendor	286	9.10	HHDT,MHDT
Phase 2 - Building Construction	Hauling	0.00	20.0	HHDT
Phase 2 - Building Construction	Onsite truck	_	_	HHDT
Off-site Paving	_	_	_	_
Off-site Paving	Worker	15.0	11.9	LDA,LDT1,LDT2
Off-site Paving	Vendor	_	9.10	HHDT,MHDT
Off-site Paving	Hauling	12.0	20.0	HHDT
Off-site Paving	Onsite truck	_	_	HHDT
Off-site Improvements	_	_	_	_
Off-site Improvements	Worker	17.5	11.9	LDA,LDT1,LDT2
Off-site Improvements	Vendor	_	9.10	HHDT,MHDT
Off-site Improvements	Hauling	11.0	20.0	HHDT
Off-site Improvements	Onsite truck	_	_	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Non-applicable. No control strategies activated by user.

5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated	Residential Exterior Area Coated	Non-Residential Interior Area	Non-Residential Exterior Area	Parking Area Coated (sq ft)
	(sq ft)	(sq ft)	Coated (sq ft)	Coated (sq ft)	

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (Cubic Yards)	Material Exported (Cubic Yards)	Acres Graded (acres)	Material Demolished (sq. ft.)	Acres Paved (acres)
Site Preparation	0.00	0.00	180	0.00	_
Phase 1 - Site Finishing	0.00	0.00	52.5	0.00	_
Phase 2 - Site Finishing	0.00	0.00	69.0	0.00	_
Grading	70,000	0.00	930	0.00	_
Off-site Grading	0.00	0.00	765	0.00	_
Off-site Paving	0.00	0.00	0.00	0.00	62.9

5.6.2. Construction Earthmoving Control Strategies

Non-applicable. No control strategies activated by user.

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Unrefrigerated Warehouse-No Rail	0.00	0%
Unrefrigerated Warehouse-No Rail	0.00	0%
Other Asphalt Surfaces	62.9	100%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2024	0.00	204	0.03	< 0.005

2025	0.00	204	0.03	< 0.005
2026	0.00	204	0.03	< 0.005

5.9. Operational Mobile Sources

5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Unrefrigerated Warehouse-No Rail	1,183	1,183	1,183	431,795	25,283	25,283	25,283	9,228,430
Unrefrigerated Warehouse-No Rail	2,617	2,617	2,617	955,205	55,931	55,931	55,931	20,414,878
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

5.9.2. Mitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Unrefrigerated Warehouse-No Rail	1,183	1,183	1,183	431,795	25,283	25,283	25,283	9,228,430
Unrefrigerated Warehouse-No Rail	2,617	2,617	2,617	955,205	55,931	55,931	55,931	20,414,878
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.1.2. Mitigated

5.10.2. Architectural Coatings

Residential Interior Area	Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
0		0.00	2,617,590	872,530	164,500

5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	180

5.10.4. Landscape Equipment - Mitigated

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	180

5.11. Operational Energy Consumption

5.11.1. Unmitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Unrefrigerated Warehouse-No Rail	5,669,475	204	0.0330	0.0040	3,018,108
Unrefrigerated Warehouse-No Rail	12,539,669	204	0.0330	0.0040	6,675,412
Other Asphalt Surfaces	0.00	204	0.0330	0.0040	0.00

5.11.2. Mitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Unrefrigerated Warehouse-No Rail	3,437,379	204	0.0330	0.0040	3,018,108
Unrefrigerated Warehouse-No Rail	7,602,748	204	0.0330	0.0040	6,675,412
Other Asphalt Surfaces	0.00	204	0.0330	0.0040	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Unrefrigerated Warehouse-No Rail	125,645,063	0.00
Unrefrigerated Warehouse-No Rail	277,900,063	0.00
Other Asphalt Surfaces	0.00	0.00

5.12.2. Mitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Unrefrigerated Warehouse-No Rail	125,645,063	0.00
Unrefrigerated Warehouse-No Rail	277,900,063	0.00
Other Asphalt Surfaces	0.00	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Unrefrigerated Warehouse-No Rail	511	_
Unrefrigerated Warehouse-No Rail	1,130	_

Other Asphalt Surfaces	0.00	_
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5.13.2. Mitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Unrefrigerated Warehouse-No Rail	511	_
Unrefrigerated Warehouse-No Rail	1,130	_
Other Asphalt Surfaces	0.00	_

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	IGWP	Quantity (kg)	Operations Leak Rate	Service Leak Pate	Times Serviced
Land Use Type	Lequipinient Type	Intelligerant	GVVI	Qualitity (kg)	Operations Leak Mate	Del vice Leak Itale	Tillies Selviceu

5.14.2. Mitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Pate	Times Serviced
Land Ose Type	Equipment Type	Reingerant	GVVI	Quartity (kg)	Operations Leak Nate	Service Leak Itale	Tillies Serviced

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
- 1 1 - 21 - 21 - 21 - 21 - 21 - 21 - 2	71				the state of the s	

5.15.2. Mitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horcopowor	Load Factor
Equipment Type	ruei Type	Engine nei	Number per Day	Hours Fel Day	Horsepower	Load Factor
· · · · · · · · · · · · · · · · · · ·			the state of the s			

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

Equipment Type Fuel Type Number per Day Hours per Day Hours per Year Horsepower Load Factor

5.16.2. Process Boilers

Equipment type Table type Transce Transc	Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)
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5.17. User Defined

Equipment Type	Fuel Type
_	_

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

 Vegetation Land Use Type
 Vegetation Soil Type
 Initial Acres
 Final Acres

5.18.1.2. Mitigated

Vegetation Land Use Type Vegetation Soil Type Initial Acres Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type Initial Acres Final Acres

5.18.1.2. Mitigated

Biomass Cover Type Initial Acres Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

ype	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)
ype	Number	Electricity Saved (KVVII/year)	matural Gas Saveu (blu/year)

5.18.2.2. Mitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)
1100 1390	realise	Licentially Savea (ktviii)	Hatarar Gas Gavea (StaryGar)

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat 21.4 annual days of e		annual days of extreme heat
Extreme Precipitation	0.95	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	21.1	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.41 meters

Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	1	0	0	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	0	0	0	N/A
Drought	0	0	0	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	0	0	0	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	1	1	1	2
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	1	1	1	2
Drought	1	1	1	2
Snowpack Reduction	N/A	N/A	N/A	N/A

Air Quality Degradation	1	1	1	2
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The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	_
AQ-Ozone	60.9
AQ-PM	31.6
AQ-DPM	43.4
Drinking Water	52.8
Lead Risk Housing	2.00
Pesticides	76.8
Toxic Releases	24.6
Traffic	69.8
Effect Indicators	_
CleanUp Sites	20.5
Groundwater	90.9
Haz Waste Facilities/Generators	88.2
Impaired Water Bodies	0.00
Solid Waste	0.00

Sensitive Population	_
Asthma	38.8
Cardio-vascular	73.9
Low Birth Weights	51.8
Socioeconomic Factor Indicators	_
Education	32.2
Housing	13.1
Linguistic	39.8
Poverty	10.9
Unemployment	39.2

7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	_
Above Poverty	74.83639163
Employed	47.8121391
Median HI	86.88566662
Education	_
Bachelor's or higher	55.60118055
High school enrollment	26.62645964
Preschool enrollment	40.40805851
Transportation	_
Auto Access	81.29090209
Active commuting	36.22481714
Social	_
2-parent households	64.72475298

Neighborhood — Alcohol availability 90.27332221 Park access 51.8029004 Retail density 7.327088413 Supermarket access 28.5255999 Tree canopy 47.95329142 Housing — Homeownership 80.99576543 Housing habitability 92.24945464 Low-inc homeowner severe housing cost burden 86.962658 Low-inc renter severe housing cost burden 97.71256256 Uncrowded housing 60.47260362 Health Outcomes — Insured adults 60.6928397 Arthritis 86.1 Asthma ER Admissions 51.6 High Blood Pressure 90.0 Cancer (excluding skin) 67.8	
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Uncrowded housing 69.47260362 Health Outcomes — Insured adults 66.05928397 Arthritis 86.1 Asthma ER Admissions 51.6 High Blood Pressure 59.0 Cancer (excluding skin) 71.8	
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Arthritis 86.1 Asthma ER Admissions 51.6 High Blood Pressure 59.0 Cancer (excluding skin) 71.8	
Asthma ER Admissions 51.6 High Blood Pressure 59.0 Cancer (excluding skin) 71.8	
High Blood Pressure 59.0 Cancer (excluding skin) 71.8	
Cancer (excluding skin) 71.8	
Andrews	
Asthma 65.7	
Coronary Heart Disease 90.3	
Chronic Obstructive Pulmonary Disease 86.1	
Diagnosed Diabetes 79.4	
Life Expectancy at Birth 59.9	
Cognitively Disabled 66.4	
Physically Disabled 93.4	
Heart Attack ER Admissions 15.0	

Mental Health Not Good	64.8
Chronic Kidney Disease	85.5
Obesity	59.8
Pedestrian Injuries	44.0
Physical Health Not Good	76.2
Stroke	88.3
Health Risk Behaviors	_
Binge Drinking	38.6
Current Smoker	56.8
No Leisure Time for Physical Activity	54.5
Climate Change Exposures	_
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	39.2
Elderly	81.9
English Speaking	58.2
Foreign-born	64.0
Outdoor Workers	48.3
Climate Change Adaptive Capacity	_
Impervious Surface Cover	33.7
Traffic Density	70.0
Traffic Access	0.0
Other Indices	_
Hardship	46.2
Other Decision Support	_
2016 Voting	49.3

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	43.0
Healthy Places Index Score for Project Location (b)	72.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Land Use	Land uses consistent with site plan. 103.0 acres total of Development Area.
	No demolition. Construction phases and phase lengths as provided by Project applicant. 6 days per week of construction activity, as provided by Project applicant. Note that two additional paving phases are included in separate CalEEMod model runs, since CalEEMod only allows one paving phase per model run.

b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Operations: Fleet Mix	Revised fleet mix to reflect fleet mix provided in Traffic Study (Kimley Horn, 2022). Also trip rates and VMT revised to reflect what is provided in Traffic Study (Kimley Horn, 2022). 29 mile trip length was assumed for HHD vehicles; 17.7478024 trip length (conservative assumption based on largest default CalEEMod assumed trip length value) was assumed for all other vehicles, for a weighted average trip length of 21.37224776 miles. Fleet mix is adjusted to reflect heavy-duty truck mix of 32.211% (as provided by Kimley Horn).
Operations: Consumer Products	Revised General Category consumer products emissions factor to reflect CARB adjustments applied to their Consumer and Commercial Product Survey Emission data, made after the 2008 consumer products emissions factor. Adjustment made to reflect average adjustment factor. See for further detail: https://ww2.arb.ca.gov/our-work/programs/consumer-products-program/consumer-products-emissions-in 0.0000107
Operations: Vehicle Data	Trip rates revised to reflect that the heavy-duty truck trips would average approximately 29 miles per trip. The trip distances for passenger vehicles provided by the defaults in the CalEEMod model were averaged (weighted) with the heavy-duty truck trip distance of 29 miles. This equals a weighted average travel distance of 21.37224776 miles. Trip rate is 2.17731397125136 and 2.17769382473601 per 1000 sf per day, for each of the two buildings (smaller building and larger building), respectively, consistent with what was provided by Kimley Horn.
Construction: Dust From Material Movement	Per Project Applicant, during Grading phase, up to approx. 70,000 cubic yards of soil could be imported. Acres graded represents the default CalEEMod value (note that, according to CalEEMod, "Multiple passes with grading equipment may be required to properly grade a piece of land").
Construction: Off-Road Equipment	Off-road equipment detail as provided by Project applicant.
Construction: Trips and VMT	Hauling trips as provided by Project applicant (note: adjusted upwards to reflect 6 days per week of construction activity).

Tracy Costco - Construction - Paving (Phase 1) Phase Only Detailed Report

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1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Tracy Costco - Construction - Paving (Phase 1) Phase Only
Construction Start Date	11/17/2025
Operational Year	2026
Lead Agency	_
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	3.00
Precipitation (days)	6.60
Location	37.72034841082716, -121.51274124970524
County	San Joaquin
City	Unincorporated
Air District	San Joaquin Valley APCD
Air Basin	San Joaquin Valley
TAZ	2107
EDFZ	4
Electric Utility	Pacific Gas & Electric Company
Gas Utility	Pacific Gas & Electric
App Version	2022.1.1.20

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq	Special Landscape	Population	Description
					ft)	Area (sq ft)		

Unrefrigerated Warehouse-No Rail	543	1000sqft	12.5	543,330	0.00	0.00	_	_
Unrefrigerated Warehouse-No Rail	1,202	1000sqft	27.6	1,201,730	0.00	0.00	_	_
Other Asphalt Surfaces	62.9	Acre	62.9	0.00	0.00	0.00	_	_

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Construction	C-10-A	Water Exposed Surfaces
Transportation	T-14*	Provide Electric Vehicle Charging Infrastructure
Transportation	T-34*	Provide Bike Parking
Transportation	T-35*	Provide Tra c Calming Measures
Energy	E-2	Require Energy Efficient Appliances
Energy	E-10-B	Establish Onsite Renewable Energy Systems: Solar Power

^{*} Qualitative or supporting measure. Emission reductions not included in the mitigated emissions results.

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

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Un/Mit.	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unmit.	0.62	0.49	6.11	12.1	0.03	0.16	0.89	1.04	0.15	0.24	0.39	_	4,510	4,510	0.13	0.46	0.19	4,651
Mit.	0.62	0.49	6.11	12.1	0.03	0.16	0.89	1.04	0.15	0.24	0.39	_	4,510	4,510	0.13	0.46	0.19	4,651
% Reduced	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

Average Daily (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unmit.	0.05	0.04	0.48	0.96	< 0.005	0.01	0.07	0.08	0.01	0.02	0.03	_	358	358	0.01	0.04	0.26	370
Mit.	0.05	0.04	0.48	0.96	< 0.005	0.01	0.07	0.08	0.01	0.02	0.03	_	358	358	0.01	0.04	0.26	370
% Reduced	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Annual (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unmit.	0.01	0.01	0.09	0.18	< 0.005	< 0.005	0.01	0.02	< 0.005	< 0.005	0.01	_	59.3	59.3	< 0.005	0.01	0.04	61.2
Mit.	0.01	0.01	0.09	0.18	< 0.005	< 0.005	0.01	0.02	< 0.005	< 0.005	0.01	_	59.3	59.3	< 0.005	0.01	0.04	61.2
% Reduced	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

2.2. Construction Emissions by Year, Unmitigated

Year	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	-
Daily - Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
2025	0.62	0.49	6.11	12.1	0.03	0.16	0.89	1.04	0.15	0.24	0.39	_	4,510	4,510	0.13	0.46	0.19	4,651
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
2025	0.05	0.04	0.48	0.96	< 0.005	0.01	0.07	0.08	0.01	0.02	0.03	_	358	358	0.01	0.04	0.26	370
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
2025	0.01	0.01	0.09	0.18	< 0.005	< 0.005	0.01	0.02	< 0.005	< 0.005	0.01	_	59.3	59.3	< 0.005	0.01	0.04	61.2

2.3. Construction Emissions by Year, Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Year	TOG	ROG	NOx	СО	SO2	PM10E	PM10D	PM10T	PM2.5E		PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily - Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
2025	0.62	0.49	6.11	12.1	0.03	0.16	0.89	1.04	0.15	0.24	0.39	_	4,510	4,510	0.13	0.46	0.19	4,651
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
2025	0.05	0.04	0.48	0.96	< 0.005	0.01	0.07	0.08	0.01	0.02	0.03	_	358	358	0.01	0.04	0.26	370
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
2025	0.01	0.01	0.09	0.18	< 0.005	< 0.005	0.01	0.02	< 0.005	< 0.005	0.01	_	59.3	59.3	< 0.005	0.01	0.04	61.2

2.4. Operations Emissions Compared Against Thresholds

Un/Mit.	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	всо2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unmit.	32.7	49.3	123	288	1.29	2.21	62.7	65.0	2.09	16.3	18.4	1,657	147,303	148,960	173	17.6	366	158,891
Mit.	32.7	49.3	123	288	1.29	2.21	62.7	65.0	2.09	16.3	18.4	1,657	143,296	144,953	172	17.5	366	154,845
% Reduced	_	_	_	_	_	_	_	_	_	_	_	_	3%	3%	< 0.5%	< 0.5%	_	3%
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unmit.	18.2	35.9	132	177	1.25	2.08	62.7	64.8	1.99	16.3	18.3	1,657	143,490	145,147	173	17.8	9.49	154,772

Mit.	18.2	35.9	132	177	1.25	2.08	62.7	64.8	1.99	16.3	18.3	1,657	139,484	141,141	172	17.7	9.49	150,726
% Reduced	_	_	_	_	_	_	_	_	_	_	_	_	3%	3%	< 0.5%	< 0.5%	-	3%
Average Daily (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unmit.	24.9	42.1	128	219	1.26	2.15	62.5	64.7	2.04	16.2	18.3	1,657	144,452	146,109	173	17.7	158	155,860
Mit.	24.9	42.1	128	219	1.26	2.15	62.5	64.7	2.04	16.2	18.3	1,657	140,445	142,103	172	17.6	158	151,814
% Reduced	_	_	_	_	_	_	_	_	_	_	_	_	3%	3%	< 0.5%	< 0.5%	_	3%
Annual (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unmit.	4.55	7.69	23.4	39.9	0.23	0.39	11.4	11.8	0.37	2.96	3.33	274	23,916	24,190	28.6	2.93	26.2	25,804
Mit.	4.55	7.69	23.4	39.9	0.23	0.39	11.4	11.8	0.37	2.96	3.33	274	23,252	23,527	28.5	2.92	26.2	25,134
% Reduced	_	_	_	-	_	_	_	_	_	_	_	_	3%	3%	< 0.5%	< 0.5%	_	3%

2.5. Operations Emissions by Sector, Unmitigated

Sector	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Mobile	18.9	15.4	119	210	1.27	1.88	62.7	64.6	1.79	16.3	18.1	_	132,972	132,972	2.99	15.5	366	138,033
Area	13.5	33.8	0.64	75.9	< 0.005	0.13	_	0.13	0.10	_	0.10	_	312	312	0.01	< 0.005	_	313
Energy	0.29	0.14	2.60	2.19	0.02	0.20	_	0.20	0.20	_	0.20	_	13,283	13,283	1.92	0.21	_	13,392
Water	_	_	_	_	_	_	_	_	_	_	_	773	735	1,509	79.4	1.90	_	4,059
Waste	_	_	<u> </u>	_	_	_	_	_	_	_	_	884	0.00	884	88.4	0.00	_	3,093
Total	32.7	49.3	123	288	1.29	2.21	62.7	65.0	2.09	16.3	18.4	1,657	147,303	148,960	173	17.6	366	158,891

Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	-	_	_	_	_	_	_	-	_
Mobile	17.9	14.5	129	175	1.23	1.88	62.7	64.6	1.80	16.3	18.1	_	129,472	129,472	3.08	15.7	9.49	134,227
Area	_	21.3	_	_	_	_	_	-	_	_	_	_	_	_	_	_	_	_
Energy	0.29	0.14	2.60	2.19	0.02	0.20	_	0.20	0.20	_	0.20	_	13,283	13,283	1.92	0.21	_	13,392
Water	_	_	_	_	_	_	_	_	_	_	_	773	735	1,509	79.4	1.90	_	4,059
Waste	_	_	_	_	_	_	_	_	_	_	_	884	0.00	884	88.4	0.00	_	3,093
Total	18.2	35.9	132	177	1.25	2.08	62.7	64.8	1.99	16.3	18.3	1,657	143,490	145,147	173	17.8	9.49	154,772
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Mobile	18.0	14.5	126	179	1.24	1.88	62.5	64.4	1.79	16.2	18.0	_	130,280	130,280	3.03	15.6	158	135,161
Area	6.66	27.5	0.32	37.4	< 0.005	0.07	_	0.07	0.05	_	0.05	_	154	154	0.01	< 0.005	_	154
Energy	0.29	0.14	2.60	2.19	0.02	0.20	_	0.20	0.20	_	0.20	_	13,283	13,283	1.92	0.21	_	13,392
Water	_	_	_	_	_	_	_	_	_	_	_	773	735	1,509	79.4	1.90	_	4,059
Waste	_	_	_	_	_	_	_	_	_	_	_	884	0.00	884	88.4	0.00	_	3,093
Total	24.9	42.1	128	219	1.26	2.15	62.5	64.7	2.04	16.2	18.3	1,657	144,452	146,109	173	17.7	158	155,860
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Mobile	3.28	2.65	22.9	32.7	0.23	0.34	11.4	11.8	0.33	2.96	3.29	_	21,569	21,569	0.50	2.58	26.2	22,377
Area	1.21	5.01	0.06	6.83	< 0.005	0.01	_	0.01	0.01	_	0.01	_	25.5	25.5	< 0.005	< 0.005	_	25.6
Energy	0.05	0.03	0.48	0.40	< 0.005	0.04	_	0.04	0.04	_	0.04	_	2,199	2,199	0.32	0.03	_	2,217
Water	_	_	_	_	_	_	_	_	_	_	_	128	122	250	13.1	0.31	_	672
Waste	_	_	_	_	_	_	_	_	_	_	_	146	0.00	146	14.6	0.00	_	512
Total	4.55	7.69	23.4	39.9	0.23	0.39	11.4	11.8	0.37	2.96	3.33	274	23,916	24,190	28.6	2.93	26.2	25,804

2.6. Operations Emissions by Sector, Mitigated

	5	Sector	TOG	ROG	NOx	СО	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
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Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Mobile	18.9	15.4	119	210	1.27	1.88	62.7	64.6	1.79	16.3	18.1	_	132,972	132,972	2.99	15.5	366	138,033
Area	13.5	33.8	0.64	75.9	< 0.005	0.13	_	0.13	0.10	_	0.10	_	312	312	0.01	< 0.005	_	313
Energy	0.29	0.14	2.60	2.19	0.02	0.20	_	0.20	0.20	_	0.20	-	9,276	9,276	1.27	0.13	_	9,346
Water	_	_	_	_	_	_	_	_	_	_	_	773	735	1,509	79.4	1.90	_	4,059
Waste	_	_	_	_	_	_	_	_	_	_	_	884	0.00	884	88.4	0.00	_	3,093
Total	32.7	49.3	123	288	1.29	2.21	62.7	65.0	2.09	16.3	18.4	1,657	143,296	144,953	172	17.5	366	154,845
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Mobile	17.9	14.5	129	175	1.23	1.88	62.7	64.6	1.80	16.3	18.1	-	129,472	129,472	3.08	15.7	9.49	134,227
Area	_	21.3	_	<u> </u>	_	_	_	_	_	_	_	<u> </u>	_	_	_	_	_	_
Energy	0.29	0.14	2.60	2.19	0.02	0.20	_	0.20	0.20	_	0.20	-	9,276	9,276	1.27	0.13	_	9,346
Water	_	_	_	_	_	_	_	_	_	_	_	773	735	1,509	79.4	1.90	_	4,059
Waste	_	_	_	_	_	_	_	_	_	_	_	884	0.00	884	88.4	0.00	_	3,093
Total	18.2	35.9	132	177	1.25	2.08	62.7	64.8	1.99	16.3	18.3	1,657	139,484	141,141	172	17.7	9.49	150,726
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Mobile	18.0	14.5	126	179	1.24	1.88	62.5	64.4	1.79	16.2	18.0	_	130,280	130,280	3.03	15.6	158	135,161
Area	6.66	27.5	0.32	37.4	< 0.005	0.07	_	0.07	0.05	_	0.05	_	154	154	0.01	< 0.005	_	154
Energy	0.29	0.14	2.60	2.19	0.02	0.20	_	0.20	0.20	_	0.20	_	9,276	9,276	1.27	0.13	_	9,346
Water	_	_	_	_	_	_	_	_	_	_	_	773	735	1,509	79.4	1.90	_	4,059
Waste	_	_	_	_	_	_	_	_	_	_	_	884	0.00	884	88.4	0.00	_	3,093
Total	24.9	42.1	128	219	1.26	2.15	62.5	64.7	2.04	16.2	18.3	1,657	140,445	142,103	172	17.6	158	151,814
Annual	_	_	_	_	_	_	_	_	_	_	_		_	_	_	_	_	_
Mobile	3.28	2.65	22.9	32.7	0.23	0.34	11.4	11.8	0.33	2.96	3.29		21,569	21,569	0.50	2.58	26.2	22,377
Area	1.21	5.01	0.06	6.83	< 0.005	0.01	_	0.01	0.01	_	0.01	_	25.5	25.5	< 0.005	< 0.005	_	25.6

Energy	0.05	0.03	0.48	0.40	< 0.005	0.04	_	0.04	0.04	_	0.04	_	1,536	1,536	0.21	0.02	_	1,547
Water	_	_	_	_	_	_	_	_	_	_	_	128	122	250	13.1	0.31	_	672
Waste	_	_	_	_	_	_	_	_	_	_	_	146	0.00	146	14.6	0.00	_	512
Total	4.55	7.69	23.4	39.9	0.23	0.39	11.4	11.8	0.37	2.96	3.33	274	23,252	23,527	28.5	2.92	26.2	25,134

3. Construction Emissions Details

3.1. Phase 1 - Paving (2025) - Unmitigated

	TOG	ROG	NOx	CO CO	SO2	PM10E	PM10D	PM10T			PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.39	2.38	10.6	0.01	0.10	_	0.10	0.10	_	0.10	_	1,511	1,511	0.06	0.01	_	1,517
Dust From Material Movement	<u> </u>	_	_	_	_	_	0.00	0.00	_	0.00	0.00	_	_	_	_	_	_	_
Onsite truck	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	0.00
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.03	0.19	0.84	< 0.005	0.01	_	0.01	0.01	_	0.01	_	120	120	< 0.005	< 0.005	_	120

Dust From Material Movemen	<u> </u>	_	_	_	_	_	0.00	0.00	_	0.00	0.00	_	_	_	-	_	_	_
Onsite truck	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	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.01	0.03	0.15	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	19.9	19.9	< 0.005	< 0.005	_	20.0
Dust From Material Movemen		_	_	_	_	_	0.00	0.00	_	0.00	0.00	_	_	_	_	_	_	_
Onsite truck	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	0.00
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	-	_	_	_	_	_	_	_	-	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.06	0.06	0.06	0.62	0.00	0.00	0.13	0.13	0.00	0.03	0.03	_	125	125	< 0.005	0.01	0.01	127
Vendor	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	0.00
Hauling	0.11	0.05	3.67	0.84	0.02	0.05	0.76	0.81	0.05	0.21	0.26	_	2,873	2,873	0.06	0.45	0.18	3,007
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.01	< 0.005	< 0.005	0.05	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	_	10.2	10.2	< 0.005	< 0.005	0.02	10.4
Vendor	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	0.00
Hauling	0.01	< 0.005	0.29	0.07	< 0.005	< 0.005	0.06	0.06	< 0.005	0.02	0.02	_	228	228	0.01	0.04	0.24	239
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	_	1.69	1.69	< 0.005	< 0.005	< 0.005	1.72
Vendor	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	0.00

															07.0				
⊢IH	auling	< 0.005	< 0.005	0.05	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	_	37.8	37.8	< 0.005	0.01	0.04	39.6
														-	-				

3.2. Phase 1 - Paving (2025) - Mitigated

	TOG	ROG	NOx	co	SO2	PM10E	PM10D	PM10T		PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	-	-	_	_	-	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.39	2.38	10.6	0.01	0.10	_	0.10	0.10	_	0.10	_	1,511	1,511	0.06	0.01	_	1,517
Dust From Material Movemen	<u> </u>	_	_	_	_	_	0.00	0.00	_	0.00	0.00	_	_	_	_	_	_	_
Onsite truck	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	0.00
Average Daily	_	_	_	-	-	_	-	_	-	_	_	_	-	_	-	_	_	_
Off-Road Equipmen		0.03	0.19	0.84	< 0.005	0.01	_	0.01	0.01	-	0.01	_	120	120	< 0.005	< 0.005	_	120
Dust From Material Movemen			_	_	_	_	0.00	0.00	_	0.00	0.00	_	_	_	_	_		_
Onsite truck	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	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.01	0.03	0.15	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	19.9	19.9	< 0.005	< 0.005	_	20.0

Dust From Material Movemen	<u> </u>	_	_		_	_	0.00	0.00	_	0.00	0.00	_	_	_	_	_	_	_
Onsite truck	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	0.00
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	-	_	_	_	-	_	_	_	-	_	_	_
Worker	0.06	0.06	0.06	0.62	0.00	0.00	0.13	0.13	0.00	0.03	0.03	_	125	125	< 0.005	0.01	0.01	127
Vendor	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	0.00
Hauling	0.11	0.05	3.67	0.84	0.02	0.05	0.76	0.81	0.05	0.21	0.26	_	2,873	2,873	0.06	0.45	0.18	3,007
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.01	< 0.005	< 0.005	0.05	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	_	10.2	10.2	< 0.005	< 0.005	0.02	10.4
Vendor	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	0.00
Hauling	0.01	< 0.005	0.29	0.07	< 0.005	< 0.005	0.06	0.06	< 0.005	0.02	0.02	_	228	228	0.01	0.04	0.24	239
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	_	1.69	1.69	< 0.005	< 0.005	< 0.005	1.72
Vendor	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	0.00
Hauling	< 0.005	< 0.005	0.05	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	_	37.8	37.8	< 0.005	0.01	0.04	39.6

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

Ontona	onata	into (ib/at	ay ioi ac	ally, toll/y	i ioi aiii	idai, dila	01100	io, ady io	i dairy, iv	117 91 101	armaarj							
Land Use	TOG	ROG	NOx	СО	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	-	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unrefrige rated Warehou se-No Rail	18.9	15.4	119	210	1.27	1.88	62.7	64.6	1.79	16.3	18.1		132,972	132,972	2.99	15.5	366	138,033
Other Asphalt Surfaces	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	0.00
Total	18.9	15.4	119	210	1.27	1.88	62.7	64.6	1.79	16.3	18.1	_	132,972	132,972	2.99	15.5	366	138,033
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	-	_	_	_	_
Unrefrige rated Warehou se-No Rail	17.9	14.5	129	175	1.23	1.88	62.7	64.6	1.80	16.3	18.1	-	129,472	129,472	3.08	15.7	9.49	134,227
Other Asphalt Surfaces	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	0.00
Total	17.9	14.5	129	175	1.23	1.88	62.7	64.6	1.80	16.3	18.1	_	129,472	129,472	3.08	15.7	9.49	134,227
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unrefrige rated Warehou se-No Rail	3.28	2.65	22.9	32.7	0.23	0.34	11.4	11.8	0.33	2.96	3.29		21,569	21,569	0.50	2.58	26.2	22,377
Other Asphalt Surfaces	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	0.00

Total	3.28	2.65	22.9	32.7	0.23	0.34	11.4	11 Ω	0.33	2.96	3.29	 21,569	21,569	0.50	2.58	26.2	22,377
IUlai	3.20	2.03	22.3	32.7	0.23	0.54	11.4	11.0	0.55	2.90	3.23	21,303	21,303	0.50	2.50	20.2	22,311

4.1.2. Mitigated

Land Use	TOG	ROG	NOx	СО	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unrefrige rated Warehou se-No Rail	18.9	15.4	119	210	1.27	1.88	62.7	64.6	1.79	16.3	18.1	_	132,972	132,972	2.99	15.5	366	138,033
Other Asphalt Surfaces	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	0.00
Total	18.9	15.4	119	210	1.27	1.88	62.7	64.6	1.79	16.3	18.1	_	132,972	132,972	2.99	15.5	366	138,033
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unrefrige rated Warehou se-No Rail	17.9	14.5	129	175	1.23	1.88	62.7	64.6	1.80	16.3	18.1	_	129,472	129,472	3.08	15.7	9.49	134,227
Other Asphalt Surfaces	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	0.00
Total	17.9	14.5	129	175	1.23	1.88	62.7	64.6	1.80	16.3	18.1	_	129,472	129,472	3.08	15.7	9.49	134,227
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

Unrefrige rated Warehou se-No Rail	3.28	2.65	22.9	32.7	0.23	0.34	11.4	11.8	0.33	2.96	3.29	_	21,569	21,569	0.50	2.58	26.2	22,377
Other Asphalt Surfaces	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	0.00
Total	3.28	2.65	22.9	32.7	0.23	0.34	11.4	11.8	0.33	2.96	3.29	_	21,569	21,569	0.50	2.58	26.2	22,377

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

Land Use	TOG	ROG	NOx	СО	SO2	PM10E				PM2.5D		BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	-	-	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unrefrige rated Warehou se-No Rail		_	_	_	_	_	_	_	_	_	_	_	10,176	10,176	1.65	0.20	_	10,277
Other Asphalt Surfaces	_	_	_	_	_	_	_	_	_	_	_	_	0.00	0.00	0.00	0.00	_	0.00
Total	_	_	_	_	_	_	_	_	_	_	_	_	10,176	10,176	1.65	0.20	_	10,277
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

Unrefrige rated Warehou se-No Rail	_	_	_	_	_	_	_	_	_	_	_	_	10,176	10,176	1.65	0.20	_	10,277
Other Asphalt Surfaces	_	_	_	_	_	_	_	_	_	_	_	_	0.00	0.00	0.00	0.00	_	0.00
Total	_	_	_	_		_	_	_	_	_	_	_	10,176	10,176	1.65	0.20	_	10,277
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unrefrige rated Warehou se-No Rail	_	_	_	_	_	_	_	_	_	_	_	_	1,685	1,685	0.27	0.03	_	1,701
Other Asphalt Surfaces	_	_	_	_	_	_	_	_	_	_	_	_	0.00	0.00	0.00	0.00	_	0.00
Total	_	_	_	_	_	_	_	_	_	_	_	_	1,685	1,685	0.27	0.03	_	1,701

4.2.2. Electricity Emissions By Land Use - Mitigated

Land Use	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unrefrige rated Warehou se-No Rail	_	_	_	_	_	_	_	_	_	_	_	_	6,170	6,170	1.00	0.12	_	6,231
Other Asphalt Surfaces	_	_	_	_	_	_	_	_	_	_	_	_	0.00	0.00	0.00	0.00	_	0.00

Total	_	_	_	_	_	_	_	_	_	_	_	_	6,170	6,170	1.00	0.12	_	6,231
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unrefrige rated Warehou se-No Rail		_	_	_	_	_	_	_	_	_	_	_	6,170	6,170	1.00	0.12	_	6,231
Other Asphalt Surfaces	_	_	_	_	_	_	_	_	_	_	_	_	0.00	0.00	0.00	0.00	_	0.00
Total	_	_	_	_	_	_	_	_	_	_	_	_	6,170	6,170	1.00	0.12	_	6,231
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unrefrige rated Warehou se-No Rail		_	_	_	_	_	_	_	_	_	_	_	1,021	1,021	0.17	0.02	_	1,032
Other Asphalt Surfaces	_	_	_	_	_	_	_	_	_	_	_	_	0.00	0.00	0.00	0.00	_	0.00
Total	_	_	_	_	<u> </u>	_	_	_	<u> </u>	_	_	_	1,021	1,021	0.17	0.02	_	1,032

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Land Use	TOG	ROG	NOx	СО	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

Unrefrige rated Warehou se-No Rail	0.29	0.14	2.60	2.19	0.02	0.20	_	0.20	0.20	_	0.20	_	3,107	3,107	0.27	0.01	_	3,115
	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
Total	0.29	0.14	2.60	2.19	0.02	0.20	_	0.20	0.20	_	0.20	_	3,107	3,107	0.27	0.01	_	3,115
Daily, Winter (Max)		_	_	_	_	_	_	_	_	_	-	_	_	_	_	_	_	_
Unrefrige rated Warehou se-No Rail	0.29	0.14	2.60	2.19	0.02	0.20	-	0.20	0.20	_	0.20	_	3,107	3,107	0.27	0.01	_	3,115
Other Asphalt Surfaces	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
Total	0.29	0.14	2.60	2.19	0.02	0.20	_	0.20	0.20	_	0.20	_	3,107	3,107	0.27	0.01	_	3,115
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unrefrige rated Warehou se-No Rail	0.05	0.03	0.48	0.40	< 0.005	0.04	-	0.04	0.04	_	0.04	_	514	514	0.05	< 0.005	_	516
Other Asphalt Surfaces	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
Total	0.05	0.03	0.48	0.40	< 0.005	0.04		0.04	0.04		0.04		514	514	0.05	< 0.005		516

4.2.4. Natural Gas Emissions By Land Use - Mitigated

Land Use	TOG	ROG	NOx	СО	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	-	_	-	-	-	-	-	_	-	-	_	-	-	-	-	-	-
Unrefrige rated Warehou se-No Rail	0.29	0.14	2.60	2.19	0.02	0.20	_	0.20	0.20	_	0.20	_	3,107	3,107	0.27	0.01	_	3,115
Other Asphalt Surfaces	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
Total	0.29	0.14	2.60	2.19	0.02	0.20	_	0.20	0.20	_	0.20	_	3,107	3,107	0.27	0.01	_	3,115
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	-	_	_	_	_	_	-	_
Unrefrige rated Warehou se-No Rail	0.29	0.14	2.60	2.19	0.02	0.20	_	0.20	0.20	_	0.20	_	3,107	3,107	0.27	0.01	_	3,115
Other Asphalt Surfaces	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
Total	0.29	0.14	2.60	2.19	0.02	0.20	_	0.20	0.20	_	0.20	_	3,107	3,107	0.27	0.01	_	3,115
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unrefrige rated Warehou se-No Rail	0.05	0.03	0.48	0.40	< 0.005	0.04	_	0.04	0.04	_	0.04	_	514	514	0.05	< 0.005	_	516
Other Asphalt Surfaces	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
Total	0.05	0.03	0.48	0.40	< 0.005	0.04	_	0.04	0.04	_	0.04	_	514	514	0.05	< 0.005	_	516

4.3. Area Emissions by Source

4.3.1. Unmitigated

Chlena	Poliulan	its (ib/da	y for dall	y, ton/yr	for annu	ial) and	GHGS (I	b/day for	daliy, iv	11/yr for	annuai)							
Source	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Consum er Products	_	18.9	_	_		_			_	_	_	_	_	_		_	_	_
Architect ural Coatings	_	2.43	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Landsca pe Equipme nt	13.5	12.5	0.64	75.9	< 0.005	0.13	_	0.13	0.10	_	0.10	_	312	312	0.01	< 0.005	_	313
Total	13.5	33.8	0.64	75.9	< 0.005	0.13	_	0.13	0.10	_	0.10	_	312	312	0.01	< 0.005	_	313
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Consum er Products	_	18.9	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Architect ural Coatings	_	2.43	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	21.3	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Consum er Products	_	3.45	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

Architect ural	_	0.44	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Landsca pe Equipme nt	1.21	1.12	0.06	6.83	< 0.005	0.01	_	0.01	0.01	_	0.01	_	25.5	25.5	< 0.005	< 0.005	_	25.6
Total	1.21	5.01	0.06	6.83	< 0.005	0.01	_	0.01	0.01	_	0.01	_	25.5	25.5	< 0.005	< 0.005	_	25.6

4.3.2. Mitigated

Source	TOG	ROG	NOx	СО	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Consum er Products	_	18.9	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Architect ural Coatings	_	2.43	_	_	_		_	_	_	_	_	_	_	_	_	_	_	_
Landsca pe Equipme nt	13.5	12.5	0.64	75.9	< 0.005	0.13	_	0.13	0.10	_	0.10	_	312	312	0.01	< 0.005	_	313
Total	13.5	33.8	0.64	75.9	< 0.005	0.13	_	0.13	0.10	_	0.10	_	312	312	0.01	< 0.005	_	313
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Consum er Products	_	18.9	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Architect ural Coatings	_	2.43	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

Total	_	21.3	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Consum er Products	_	3.45	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Architect ural Coatings	_	0.44	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Landsca pe Equipme nt	1.21	1.12	0.06	6.83	< 0.005	0.01	_	0.01	0.01	_	0.01	_	25.5	25.5	< 0.005	< 0.005	_	25.6
Total	1.21	5.01	0.06	6.83	< 0.005	0.01	_	0.01	0.01	_	0.01	_	25.5	25.5	< 0.005	< 0.005	_	25.6

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

Land Use	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unrefrige rated Warehou se-No Rail	_	_	_	_	_	_	_	_	_	_	_	773	735	1,509	79.4	1.90	_	4,059
Other Asphalt Surfaces	_	_	_	_	_	_	_	_	_	_	_	0.00	0.00	0.00	0.00	0.00	_	0.00
Total	_	_	_	_	_	_	_	_	_	_	_	773	735	1,509	79.4	1.90	_	4,059

Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unrefrige rated Warehou se-No Rail		_		_	_	_	_	_	_	_	_	773	735	1,509	79.4	1.90	_	4,059
Other Asphalt Surfaces	_	_	_	_		_	_	_	_	_	_	0.00	0.00	0.00	0.00	0.00	_	0.00
Total	_	_	_	_	_	_	_	_	_	_	_	773	735	1,509	79.4	1.90	_	4,059
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unrefrige rated Warehou se-No Rail	_	_	_	_	_	_	_	_	_	_	_	128	122	250	13.1	0.31	_	672
Other Asphalt Surfaces	_	_	_	_	_	_	_	_	_	_	_	0.00	0.00	0.00	0.00	0.00	_	0.00
Total	_	_	_	_	_	_	_	_	_	_	_	128	122	250	13.1	0.31	_	672

4.4.2. Mitigated

Land Use	TOG	ROG	NOx	СО	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unrefrige rated Warehou se-No Rail	_	_	_	_	_	_	_	_	_	_	_	773	735	1,509	79.4	1.90	_	4,059

Other Asphalt Surfaces	_	_		_	_	_	_	_	_	_	_	0.00	0.00	0.00	0.00	0.00	_	0.00
Total	_	_	_	_	_	_	_	_	_	_	_	773	735	1,509	79.4	1.90	_	4,059
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unrefrige rated Warehou se-No Rail	_	_	_	_	_	_	_	_	_	_	_	773	735	1,509	79.4	1.90	_	4,059
Other Asphalt Surfaces	_	_	_	_	_	_	_	_	_	_	_	0.00	0.00	0.00	0.00	0.00	_	0.00
Total	_	_	_	_	_	_	_	_	_	_	_	773	735	1,509	79.4	1.90	_	4,059
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unrefrige rated Warehou se-No Rail	_	_	_	_	_	_	_	_	_	_	_	128	122	250	13.1	0.31	_	672
Other Asphalt Surfaces	_	_	_	_	_	_	_	_	_	_	_	0.00	0.00	0.00	0.00	0.00	-	0.00
Total	_	_	_	_	_	_	_	_	_	_	_	128	122	250	13.1	0.31	_	672

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

- 1			(,	<i>J</i> , <i>J</i> -			(-	· · · · · · · · · · · · · · · · · · ·			,							
	Land	TOG	ROG	NOx	СО	SO2	DM40E	PM10D	DMAOT	DM2.5E	DM2 FD	DM2.5T	BCO2	NIPCO2	COST	CH4	NOO	В	CO2e
	Lanu	100	RUG	INUX		302	PIVITUE	PINITUD	PIVITUT	PIVIZ.SE	FIVIZ.SD	FIVIZ.51	DCU2	INDCUZ	0021	UП 4	INZU	K	COZE
	Use																		

D - 11																		
Daily, Summer (Max)	_		_				_	_	_	_	_		_			_		
Unrefrige rated Warehou se-No Rail	_	_	_	_	_	_	_	_	_	_	_	884	0.00	884	88.4	0.00	_	3,093
Other Asphalt Surfaces	_	_	_	_	_	_	_	_	_	_	_	0.00	0.00	0.00	0.00	0.00	_	0.00
Total	_	_	_	_	_	_	_	_	_	_	_	884	0.00	884	88.4	0.00	_	3,093
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	-	_	_	_	_	_	_
Unrefrige rated Warehou se-No Rail	_	_	_	_	_	_	_	_	_	_	_	884	0.00	884	88.4	0.00	_	3,093
Other Asphalt Surfaces	_	_	_	_	_	_	_	_	_	_	_	0.00	0.00	0.00	0.00	0.00	_	0.00
Total	_	_	_	_	_	_	_	_	_	_	_	884	0.00	884	88.4	0.00	_	3,093
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unrefrige rated Warehou se-No Rail		_	_	_	_	_	_	_	_	_	_	146	0.00	146	14.6	0.00	_	512
Other Asphalt Surfaces	_	_	_	_	_	_	_	_	_	_	_	0.00	0.00	0.00	0.00	0.00	_	0.00
Total	_	_	_	_	_	_	_	_	_	_	_	146	0.00	146	14.6	0.00	_	512

4.5.2. Mitigated

Land Use	TOG	ROG	NOx	СО	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unrefrige rated Warehou se-No Rail	_	_	_	_	_	_	_	_	_		_	884	0.00	884	88.4	0.00	_	3,093
Other Asphalt Surfaces	_	_	_	_	_	_	_	_	_	_	_	0.00	0.00	0.00	0.00	0.00	_	0.00
Total	_	_	_	_	_	_	_	_	_	_	_	884	0.00	884	88.4	0.00	_	3,093
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unrefrige rated Warehou se-No Rail		_	_	_		_	_	_	_		_	884	0.00	884	88.4	0.00	_	3,093
Other Asphalt Surfaces	_	_	_	_	_	_	_	_	_	_	_	0.00	0.00	0.00	0.00	0.00	_	0.00
Total	_	_	_	_	_	_	_	_	_	_	_	884	0.00	884	88.4	0.00	_	3,093
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unrefrige rated Warehou se-No Rail	_	_	_	_	_	_	_	_	_	_	_	146	0.00	146	14.6	0.00	_	512

Other Asphalt Surfaces	_	_	_	_	_	_	_	_	_	_	_	0.00	0.00	0.00	0.00	0.00	_	0.00
Total			_	_	_	_	_	_	_	_	_	146	0.00	146	14.6	0.00	_	512

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	СО	SO2	PM10E			PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

4.6.2. Mitigated

Land Use	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

				<i>,</i> ,														
Equipme nt	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

4.7.2. Mitigated

O		10 (, 0.0.	,	<i>y</i> ,, <i>y</i> .		,		,,	J. J	, ,	J							
Equipme	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
nt																		
Туре																		

Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	<u> </u>	_	_	_	_	_	_	_	_	_
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipme nt Type	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

4.8.2. Mitigated

Equipme Type	TOG	ROG	NOx	СО	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	-	-	-	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

Equipme nt Type	TOG	ROG		со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

4.9.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

				y, toy.														
Equipme nt Type	TOG	ROG	NOx	СО	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Vegetatio n	TOG	ROG		со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_		_		_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

Total	_	_	_	_	_	_	_	 _	_	_	_	_	 _	_	 _
iotai															

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Species	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_		_	_	_	_	_	_	_	_	_	_	_
Avoided	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Sequest ered	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Remove d	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Avoided	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Sequest ered	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Remove d	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Avoided	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Sequest ered	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Remove d	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

O moma	· onatan		,	.,,, .	.0	aai, aiia	000 (.	e, aa, .e.	GG.1.5, 11	, ,	ai ii iaai,							
Vegetatio	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
n																		

Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

4.10.5. Above and Belowground Carbon Accumulation by Land Use Type - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG				PM10E				PM2.5D		BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_		_	_	_	_	_	_	_	_	<u> </u>	_	_	_	_	_		_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5F	PM2 5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Орослос	100	11100	IIIOA	100	0 0 _	1	1	1 11110	I IVIL.OL	11 1112.00	11.11.2.01	1000	1.1000	0 0	0111	11120	1.5	10020

Daily, Summer (Max) —	
Subtotal —<	
Sequest ered — <t< td=""><td>- -</td></t<>	- -
ered Subtotal — <td< td=""><td> </td></td<>	
Remove — — — — — — — — — — — — — — — — — — —	- -
d a land	
Subtotal — — — — — — — — — — — — — — — — — — —	- -
	- -
Daily, — — — — — — — — — — — — — — — — — — —	- -
Avoided — — — — — — — — — — — — — — — — — —	- -
Subtotal — — — — — — — — — — — — — — — — — — —	- -
Sequest — — — — — — — — — — — — — — — — — — —	- -
Subtotal — — — — — — — — — — — — — — — — — — —	
Remove — — — — — — — — — — — — — — — — — — —	- -
Subtotal — — — — — — — — — — — — — — — — — — —	- -
	_ _
Annual — — — — — — — — — — — — — — — — — — —	
Avoided — — — — — — — — — — — — — — — — — —	- -
Subtotal — — — — — — — — — — — — — — — — — — —	
Sequest — — — — — — — — — — — — — — — — — — —	- -
Subtotal — — — — — — — — — — — — — — — — — — —	

Remove d	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Phase 1 - Paving	Grading	11/17/2025	12/19/2025	6.00	29.0	Paving (Phase 1)

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Phase 1 - Paving	Pavers	Diesel	Tier 4 Final	2.00	8.00	81.0	0.42
Phase 1 - Paving	Paving Equipment	Diesel	Tier 4 Final	2.00	8.00	89.0	0.36
Phase 1 - Paving	Rollers	Diesel	Average	2.00	8.00	36.0	0.38

5.2.2. Mitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Phase 1 - Paving	Pavers	Diesel	Tier 4 Final	2.00	8.00	81.0	0.42
Phase 1 - Paving	Paving Equipment	Diesel	Tier 4 Final	2.00	8.00	89.0	0.36
Phase 1 - Paving	Rollers	Diesel	Average	2.00	8.00	36.0	0.38

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Phase 1 - Paving	_	_	_	_
Phase 1 - Paving	Worker	15.0	11.9	LDA,LDT1,LDT2
Phase 1 - Paving	Vendor	_	9.10	HHDT,MHDT
Phase 1 - Paving	Hauling	41.0	20.0	HHDT
Phase 1 - Paving	Onsite truck	_	_	HHDT

5.3.2. Mitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Phase 1 - Paving	_	_	_	_
Phase 1 - Paving	Worker	15.0	11.9	LDA,LDT1,LDT2
Phase 1 - Paving	Vendor	_	9.10	HHDT,MHDT
Phase 1 - Paving	Hauling	41.0	20.0	HHDT
Phase 1 - Paving	Onsite truck	_	_	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Non-applicable. No control strategies activated by user.

5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated	Residential Exterior Area Coated	Non-Residential Interior Area	Non-Residential Exterior Area	Parking Area Coated (sq ft)
	(sq ft)	(sq ft)	Coated (sq ft)	Coated (sq ft)	

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (Cubic Yards)	Material Exported (Cubic Yards)	Acres Graded (acres)	Material Demolished (sq. ft.)	Acres Paved (acres)
Phase 1 - Paving	0.00	0.00	111	0.00	_

5.6.2. Construction Earthmoving Control Strategies

Non-applicable. No control strategies activated by user.

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Unrefrigerated Warehouse-No Rail	0.00	0%
Unrefrigerated Warehouse-No Rail	0.00	0%
Other Asphalt Surfaces	62.9	100%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2025	0.00	204	0.03	< 0.005

5.9. Operational Mobile Sources

5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Unrefrigerated Warehouse-No Rail	3,800	3,800	3,800	1,387,000	81,215	81,215	81,215	29,643,308
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

5.9.2. Mitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Unrefrigerated Warehouse-No Rail	3,800	3,800	3,800	1,387,000	81,215	81,215	81,215	29,643,308
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.1.2. Mitigated

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
0	0.00	2,617,590	872,530	164,500

5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	180

5.10.4. Landscape Equipment - Mitigated

Season	Unit	Value
Codosii	O'III	value

Snow Days	day/yr	0.00
Summer Days	day/yr	180

5.11. Operational Energy Consumption

5.11.1. Unmitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)			
Unrefrigerated Warehouse-No Rail	5,669,475	204	0.0330	0.0040	3,018,108			
Unrefrigerated Warehouse-No Rail	12,539,669	204	0.0330	0.0040	6,675,412			
Other Asphalt Surfaces	0.00	204	0.0330	0.0040	0.00			

5.11.2. Mitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Unrefrigerated Warehouse-No Rail	3,437,379	204	0.0330	0.0040	3,018,108
Unrefrigerated Warehouse-No Rail	7,602,748	204	0.0330	0.0040	6,675,412
Other Asphalt Surfaces	0.00	204	0.0330	0.0040	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Unrefrigerated Warehouse-No Rail	125,645,063	0.00
Unrefrigerated Warehouse-No Rail	277,900,063	0.00

Other Asphalt Surfaces	0.00	0.00
<u> </u>		

5.12.2. Mitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)	
Unrefrigerated Warehouse-No Rail	125,645,063	0.00	
Unrefrigerated Warehouse-No Rail	277,900,063	0.00	
Other Asphalt Surfaces	0.00	0.00	

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Unrefrigerated Warehouse-No Rail	511	_
Unrefrigerated Warehouse-No Rail	1,130	_
Other Asphalt Surfaces	0.00	_

5.13.2. Mitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Unrefrigerated Warehouse-No Rail	511	_
Unrefrigerated Warehouse-No Rail	1,130	_
Other Asphalt Surfaces	0.00	_

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Lond Hoo Time	Equipment Time	Defries word	CMD	Overatity (leas)	One retional sale Data	Comise Leek Data	Times Completed
Land Use Type	Equipment Type	Reingerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	rimes Serviced

5.14.2. Mitigated

Land Use Type Equipment Type Refrigerant GWP Quantity (kg) Operations Leak Rate Service Leak Rate Times Serviced

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Equipment Type	I doi Typo	Linguis rici	radificor per Day	riodis i ci Day	1 10130powoi	Load I doloi

5.15.2. Mitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor	
----------------	-----------	-------------	----------------	---------------	------------	-------------	--

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

Faurinment Time	Fuel Time	Number per Day	Hours per Doy	Hours per Veer	Horoopoulor	Load Footor
Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor

5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/vr)
Equipment Type	1. 40. 1900	1 turnour	Bonor Hading (Intibia)	Daily Frode Impac (Immbed, day)	rumaar rioat mpat (mmbta/ji)

5.17. User Defined

Equipment Type	Fuel Type
_	_

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

 Vegetation Land Use Type
 Vegetation Soil Type
 Initial Acres
 Final Acres

5.18.1.2. Mitigated

Vegetation Land Use Type Vegetation Soil Type Initial Acres Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type Final Acres Final Acres

5.18.1.2. Mitigated

Biomass Cover Type Final Acres Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type Number Electricity Saved (kWh/year) Natural Gas Saved (btu/year)

5.18.2.2. Mitigated

Tree Type Number Electricity Saved (kWh/year) Natural Gas Saved (btu/year)

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	21.4	annual days of extreme heat
Extreme Precipitation	0.95	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	21.1	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters

Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	1	0	0	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	0	0	0	N/A
Drought	0	0	0	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	0	0	0	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	1	1	1	2
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	1	1	1	2
Drought	1	1	1	2
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	1	1	1	2

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	_
AQ-Ozone	60.9

1.6
3.4
2.8
.00
6.8
4.6
9.8
_
0.5
0.9
8.2
.00
.00
_
8.8
3.9
1.8
_
2.2
3.1
9.8
0.9
9.2
2

7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator Result for Project Census Tract

Economic	_
Above Poverty	74.83639163
Employed	47.8121391
Median HI	86.88566662
Education	_
Bachelor's or higher	55.60118055
High school enrollment	26.62645964
Preschool enrollment	40.40805851
Transportation	_
Auto Access	81.29090209
Active commuting	36.22481714
Social	_
2-parent households	64.72475298
Voting	66.31592455
Neighborhood	_
Alcohol availability	90.27332221
Park access	51.80290004
Retail density	7.327088413
Supermarket access	28.5255999
Tree canopy	47.95329142
Housing	_
Homeownership	80.99576543
Housing habitability	92.24945464
Low-inc homeowner severe housing cost burden	86.9626588
Low-inc renter severe housing cost burden	79.71256256
Uncrowded housing	69.47260362
Health Outcomes	_

Insured adults	66.05928397
Arthritis	86.1
Asthma ER Admissions	51.6
High Blood Pressure	59.0
Cancer (excluding skin)	71.8
Asthma	65.7
Coronary Heart Disease	90.3
Chronic Obstructive Pulmonary Disease	86.1
Diagnosed Diabetes	79.4
Life Expectancy at Birth	59.9
Cognitively Disabled	66.4
Physically Disabled	93.4
Heart Attack ER Admissions	15.0
Mental Health Not Good	64.8
Chronic Kidney Disease	85.5
Obesity	59.8
Pedestrian Injuries	44.0
Physical Health Not Good	76.2
Stroke	88.3
Health Risk Behaviors	_
Binge Drinking	38.6
Current Smoker	56.8
No Leisure Time for Physical Activity	54.5
Climate Change Exposures	_
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	39.2

Elderly	81.9
English Speaking	58.2
Foreign-born	64.0
Outdoor Workers	48.3
Climate Change Adaptive Capacity	_
Impervious Surface Cover	33.7
Traffic Density	70.0
Traffic Access	0.0
Other Indices	_
Hardship	46.2
Other Decision Support	_
2016 Voting	49.3

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	43.0
Healthy Places Index Score for Project Location (b)	72.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Land Use	Land uses consistent with site plan. 103.0 acres total of Development Area.
Construction: Construction Phases	No demolition. Construction phases and phase lengths as provided by Project applicant. Paving - Phase 1 modeled only herein. 6 days per week of construction activity, as provided by Project applicant.
Operations: Fleet Mix	Revised fleet mix to reflect fleet mix provided in Traffic Study (Kimley Horn, 2022). Also trip rates and VMT revised to reflect what is provided in Traffic Study (Kimley Horn, 2022). 29 mile trip length was assumed for HHD vehicles; 17.7478024 trip length (conservative assumption based on largest default CalEEMod assumed trip length value) was assumed for all other vehicles, for a weighted average trip length of 21.37224776 miles. Fleet mix is adjusted to reflect heavy-duty truck mix of 32.211% (as provided by Kimley Horn).
Operations: Consumer Products	Revised General Category consumer products emissions factor to reflect CARB adjustments applied to their Consumer and Commercial Product Survey Emission data, made after the 2008 consumer products emissions factor. Adjustment made to reflect average adjustment factor. See for further detail: https://ww2.arb.ca.gov/our-work/programs/consumer-products-program/consumer-products-emissions-in 0.0000107
Operations: Vehicle Data	Trip rates revised to reflect that the heavy-duty truck trips would average approximately 29 miles per trip. The trip distances for passenger vehicles provided by the defaults in the CalEEMod model were averaged (weighted) with the heavy-duty truck trip distance of 29 miles. This equals a weighted average travel distance of 21.37224776 miles. Trip rate is 3,800 trips per day, consistent with what was provided by Kimley Horn.
Construction: Dust From Material Movement	No soil import or export during Construction Phase - Paving - Phase 1.
Construction: Off-Road Equipment	Off-road equipment detail as provided by Project applicant.
Construction: Trips and VMT	Hauling trips as provided by Project applicant. Hauling trips adjusted to reflect six days per week of construction activity.

Tracy Costco - Construction - Paving (Phase 2) Phase Only Detailed Report

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1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Tracy Costco - Construction - Paving (Phase 2) Phase Only
Construction Start Date	7/21/2026
Operational Year	2026
Lead Agency	_
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	3.00
Precipitation (days)	6.60
Location	37.72034841082716, -121.51274124970524
County	San Joaquin
City	Unincorporated
Air District	San Joaquin Valley APCD
Air Basin	San Joaquin Valley
TAZ	2107
EDFZ	4
Electric Utility	Pacific Gas & Electric Company
Gas Utility	Pacific Gas & Electric
App Version	2022.1.1.21

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq	Special Landscape	Population	Description
					ft)	Area (sq ft)		

Unrefrigerated Warehouse-No Rail	543	1000sqft	12.5	543,330	0.00	0.00	_	_
Unrefrigerated Warehouse-No Rail	1,202	1000sqft	27.6	1,201,730	0.00	0.00	_	_
Other Asphalt Surfaces	62.9	Acre	62.9	0.00	0.00	0.00	_	_

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Construction	C-10-A	Water Exposed Surfaces
Transportation	T-14*	Provide Electric Vehicle Charging Infrastructure
Transportation	T-34*	Provide Bike Parking
Transportation	T-35*	Provide Tra c Calming Measures
Energy	E-2	Require Energy Efficient Appliances
Energy	E-10-B	Establish Onsite Renewable Energy Systems: Solar Power

^{*} Qualitative or supporting measure. Emission reductions not included in the mitigated emissions results.

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

		(1.07 0.01	,	J, J.						_								
Un/Mit.	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unmit.	0.90	0.61	14.3	14.2	0.08	0.29	2.83	3.12	0.28	0.77	1.06	_	11,664	11,664	0.22	1.60	23.8	12,170
Mit.	0.90	0.61	14.3	14.2	0.08	0.29	2.83	3.12	0.28	0.77	1.06	_	11,664	11,664	0.22	1.60	23.8	12,170
% Reduced	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

Average Daily (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unmit.	0.04	0.03	0.65	0.62	< 0.005	0.01	0.12	0.14	0.01	0.03	0.05	_	511	511	0.01	0.07	0.45	533
Mit.	0.04	0.03	0.65	0.62	< 0.005	0.01	0.12	0.14	0.01	0.03	0.05	_	511	511	0.01	0.07	0.45	533
% Reduced	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Annual (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	-
Unmit.	0.01	< 0.005	0.12	0.11	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	_	84.6	84.6	< 0.005	0.01	0.07	88.2
Mit.	0.01	< 0.005	0.12	0.11	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	_	84.6	84.6	< 0.005	0.01	0.07	88.2
% Reduced	_	-	_	-	_	-	_	_	_	_	_	_	_	_	_	_	_	-

2.2. Construction Emissions by Year, Unmitigated

Year	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
2026	0.90	0.61	14.3	14.2	0.08	0.29	2.83	3.12	0.28	0.77	1.06	_	11,664	11,664	0.22	1.60	23.8	12,170
Daily - Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
2026	0.04	0.03	0.65	0.62	< 0.005	0.01	0.12	0.14	0.01	0.03	0.05	_	511	511	0.01	0.07	0.45	533
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
2026	0.01	< 0.005	0.12	0.11	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	_	84.6	84.6	< 0.005	0.01	0.07	88.2

2.3. Construction Emissions by Year, Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Year	TOG	ROG	NOx	СО	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
2026	0.90	0.61	14.3	14.2	0.08	0.29	2.83	3.12	0.28	0.77	1.06	_	11,664	11,664	0.22	1.60	23.8	12,170
Daily - Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
2026	0.04	0.03	0.65	0.62	< 0.005	0.01	0.12	0.14	0.01	0.03	0.05	_	511	511	0.01	0.07	0.45	533
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
2026	0.01	< 0.005	0.12	0.11	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	_	84.6	84.6	< 0.005	0.01	0.07	88.2

2.4. Operations Emissions Compared Against Thresholds

Un/Mit.	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	всо2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unmit.	32.7	49.3	123	288	1.29	2.21	62.7	65.0	2.09	16.3	18.4	1,657	147,303	148,960	173	17.6	366	158,891
Mit.	32.7	49.3	123	288	1.29	2.21	62.7	65.0	2.09	16.3	18.4	1,657	143,296	144,953	172	17.5	366	154,845
% Reduced	_	_	_	_	_	_	_	_	_	_	_	_	3%	3%	< 0.5%	< 0.5%	_	3%
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unmit.	18.2	35.9	132	177	1.25	2.08	62.7	64.8	1.99	16.3	18.3	1,657	143,490	145,147	173	17.8	9.49	154,772

Mit.	18.2	35.9	132	177	1.25	2.08	62.7	64.8	1.99	16.3	18.3	1,657	139,484	141,141	172	17.7	9.49	150,726
% Reduced	_	_	_	_	_	_	_	_	_	_	_	_	3%	3%	< 0.5%	< 0.5%	-	3%
Average Daily (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unmit.	24.9	42.1	128	219	1.26	2.15	62.5	64.7	2.04	16.2	18.3	1,657	144,452	146,109	173	17.7	158	155,860
Mit.	24.9	42.1	128	219	1.26	2.15	62.5	64.7	2.04	16.2	18.3	1,657	140,445	142,103	172	17.6	158	151,814
% Reduced	_	_	_	_	_	_	_	_	_	_	_	_	3%	3%	< 0.5%	< 0.5%	_	3%
Annual (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unmit.	4.55	7.69	23.4	39.9	0.23	0.39	11.4	11.8	0.37	2.96	3.33	274	23,916	24,190	28.6	2.93	26.2	25,804
Mit.	4.55	7.69	23.4	39.9	0.23	0.39	11.4	11.8	0.37	2.96	3.33	274	23,252	23,527	28.5	2.92	26.2	25,134
% Reduced	_	_	_	-	_	_	_	_	_	_	_	_	3%	3%	< 0.5%	< 0.5%	_	3%

2.5. Operations Emissions by Sector, Unmitigated

Sector	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Mobile	18.9	15.4	119	210	1.27	1.88	62.7	64.6	1.79	16.3	18.1	_	132,972	132,972	2.99	15.5	366	138,033
Area	13.5	33.8	0.64	75.9	< 0.005	0.13	_	0.13	0.10	_	0.10	_	312	312	0.01	< 0.005	_	313
Energy	0.29	0.14	2.60	2.19	0.02	0.20	_	0.20	0.20	_	0.20	_	13,283	13,283	1.92	0.21	_	13,392
Water	_	_	_	_	_	_	_	_	_	_	_	773	735	1,509	79.4	1.90	_	4,059
Waste	_	_	_	_	_	_	_	_	_	_	_	884	0.00	884	88.4	0.00	_	3,093
Total	32.7	49.3	123	288	1.29	2.21	62.7	65.0	2.09	16.3	18.4	1,657	147,303	148,960	173	17.6	366	158,891

Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	-	_	_	_	_	_	_	-	_
Mobile	17.9	14.5	129	175	1.23	1.88	62.7	64.6	1.80	16.3	18.1	_	129,472	129,472	3.08	15.7	9.49	134,227
Area	_	21.3	_	_	_	_	_	-	_	_	_	_	_	_	_	_	_	_
Energy	0.29	0.14	2.60	2.19	0.02	0.20	_	0.20	0.20	_	0.20	_	13,283	13,283	1.92	0.21	_	13,392
Water	_	_	_	_	_	_	_	_	_	_	_	773	735	1,509	79.4	1.90	_	4,059
Waste	_	_	_	_	_	_	_	_	_	_	_	884	0.00	884	88.4	0.00	_	3,093
Total	18.2	35.9	132	177	1.25	2.08	62.7	64.8	1.99	16.3	18.3	1,657	143,490	145,147	173	17.8	9.49	154,772
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Mobile	18.0	14.5	126	179	1.24	1.88	62.5	64.4	1.79	16.2	18.0	_	130,280	130,280	3.03	15.6	158	135,161
Area	6.66	27.5	0.32	37.4	< 0.005	0.07	_	0.07	0.05	_	0.05	_	154	154	0.01	< 0.005	_	154
Energy	0.29	0.14	2.60	2.19	0.02	0.20	_	0.20	0.20	_	0.20	_	13,283	13,283	1.92	0.21	_	13,392
Water	_	_	_	_	_	_	_	_	_	_	_	773	735	1,509	79.4	1.90	_	4,059
Waste	_	_	_	_	_	_	_	_	_	_	_	884	0.00	884	88.4	0.00	_	3,093
Total	24.9	42.1	128	219	1.26	2.15	62.5	64.7	2.04	16.2	18.3	1,657	144,452	146,109	173	17.7	158	155,860
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Mobile	3.28	2.65	22.9	32.7	0.23	0.34	11.4	11.8	0.33	2.96	3.29	_	21,569	21,569	0.50	2.58	26.2	22,377
Area	1.21	5.01	0.06	6.83	< 0.005	0.01	_	0.01	0.01	_	0.01	_	25.5	25.5	< 0.005	< 0.005	_	25.6
Energy	0.05	0.03	0.48	0.40	< 0.005	0.04	_	0.04	0.04	_	0.04	_	2,199	2,199	0.32	0.03	_	2,217
Water	_	_	_	_	_	_	_	_	_	_	_	128	122	250	13.1	0.31	_	672
Waste	_	_	_	_	_	_	_	_	_	_	_	146	0.00	146	14.6	0.00	_	512
Total	4.55	7.69	23.4	39.9	0.23	0.39	11.4	11.8	0.37	2.96	3.33	274	23,916	24,190	28.6	2.93	26.2	25,804

2.6. Operations Emissions by Sector, Mitigated

	5	Sector	TOG	ROG	NOx	СО	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
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Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Mobile	18.9	15.4	119	210	1.27	1.88	62.7	64.6	1.79	16.3	18.1	_	132,972	132,972	2.99	15.5	366	138,033
Area	13.5	33.8	0.64	75.9	< 0.005	0.13	_	0.13	0.10	_	0.10	_	312	312	0.01	< 0.005	_	313
Energy	0.29	0.14	2.60	2.19	0.02	0.20	_	0.20	0.20	_	0.20	-	9,276	9,276	1.27	0.13	_	9,346
Water	_	_	_	_	_	_	_	_	_	_	_	773	735	1,509	79.4	1.90	_	4,059
Waste	_	_	_	_	_	_	_	_	_	_	_	884	0.00	884	88.4	0.00	_	3,093
Total	32.7	49.3	123	288	1.29	2.21	62.7	65.0	2.09	16.3	18.4	1,657	143,296	144,953	172	17.5	366	154,845
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Mobile	17.9	14.5	129	175	1.23	1.88	62.7	64.6	1.80	16.3	18.1	<u> </u>	129,472	129,472	3.08	15.7	9.49	134,227
Area	_	21.3	_	<u> </u>	_	_	_	_	_	_	_	-	_	_	_	_	_	_
Energy	0.29	0.14	2.60	2.19	0.02	0.20	_	0.20	0.20	_	0.20	-	9,276	9,276	1.27	0.13	_	9,346
Water	_	_	_	_	_	_	_	_	_	_	_	773	735	1,509	79.4	1.90	_	4,059
Waste	_	_	_	_	_	_	_	_	_	_	_	884	0.00	884	88.4	0.00	_	3,093
Total	18.2	35.9	132	177	1.25	2.08	62.7	64.8	1.99	16.3	18.3	1,657	139,484	141,141	172	17.7	9.49	150,726
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Mobile	18.0	14.5	126	179	1.24	1.88	62.5	64.4	1.79	16.2	18.0	_	130,280	130,280	3.03	15.6	158	135,161
Area	6.66	27.5	0.32	37.4	< 0.005	0.07	_	0.07	0.05	_	0.05	_	154	154	0.01	< 0.005	_	154
Energy	0.29	0.14	2.60	2.19	0.02	0.20	_	0.20	0.20	_	0.20	_	9,276	9,276	1.27	0.13	_	9,346
Water	_	_	_	_	_	_	_	_	_	_	_	773	735	1,509	79.4	1.90	_	4,059
Waste	_	_	_	_	_	_	_	_	_	_	_	884	0.00	884	88.4	0.00	_	3,093
Total	24.9	42.1	128	219	1.26	2.15	62.5	64.7	2.04	16.2	18.3	1,657	140,445	142,103	172	17.6	158	151,814
Annual	_	_	_	_	_	_	_	_	_	_	_		_	_	_	_	_	_
Mobile	3.28	2.65	22.9	32.7	0.23	0.34	11.4	11.8	0.33	2.96	3.29		21,569	21,569	0.50	2.58	26.2	22,377
Area	1.21	5.01	0.06	6.83	< 0.005	0.01	_	0.01	0.01	_	0.01	_	25.5	25.5	< 0.005	< 0.005	_	25.6

Energy	0.05	0.03	0.48	0.40	< 0.005	0.04	_	0.04	0.04	_	0.04	_	1,536	1,536	0.21	0.02	_	1,547
Water	_	_	_	_	_	_	_	_	_	_	_	128	122	250	13.1	0.31	_	672
Waste	_	_	_	_	_	_	_	_	_	_	_	146	0.00	146	14.6	0.00	_	512
Total	4.55	7.69	23.4	39.9	0.23	0.39	11.4	11.8	0.37	2.96	3.33	274	23,252	23,527	28.5	2.92	26.2	25,134

3. Construction Emissions Details

3.1. Phase 2 - Paving (2026) - Unmitigated

Location	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.38	2.35	10.6	0.01	0.10	_	0.10	0.09	_	0.09	_	1,511	1,511	0.06	0.01	_	1,516
Dust From Material Movemen	<u> </u>	_	_	_	-	_	0.00	0.00	_	0.00	0.00	_	_	_	_	_	_	_
Onsite truck	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	0.00
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.02	0.10	0.46	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	66.2	66.2	< 0.005	< 0.005	_	66.4

Dust	_	_	_	_	_		0.00	0.00	_	0.00	0.00	_	_	_	_	_	_	_
From Material Movemen	·t						0.00	0.00		0.00	0.00							
Onsite truck	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	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmer		< 0.005	0.02	0.08	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	11.0	11.0	< 0.005	< 0.005	_	11.0
Dust From Material Movemen	<u> </u>	_	_	_	_	_	0.00	0.00	_	0.00	0.00	_	-	_	_	_	_	_
Onsite truck	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	0.00
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	-	_	_	_	_	_	_	_	_	_	_	_	_	_	-	_	_
Worker	0.06	0.06	0.04	0.72	0.00	0.00	0.13	0.13	0.00	0.03	0.03	_	136	136	< 0.005	< 0.005	0.47	138
Vendor	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	0.00
Hauling	0.41	0.18	11.9	2.86	0.07	0.19	2.71	2.90	0.19	0.74	0.93	_	10,017	10,017	0.16	1.58	23.4	10,517
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	_	5.52	5.52	< 0.005	< 0.005	0.01	5.60
Vendor	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	0.00
Hauling	0.02	0.01	0.54	0.13	< 0.005	0.01	0.12	0.13	0.01	0.03	0.04	_	439	439	0.01	0.07	0.44	461
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	_	0.91	0.91	< 0.005	< 0.005	< 0.005	0.93
Vendor	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	0.00

Hauling	< 0.005	< 0.005	0.10	0.02	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	_	72.7	72.7	< 0.005	0.01	0.07	76.2
														1				

3.2. Phase 2 - Paving (2026) - Mitigated

		_		ıly, ton/yı														
Location	TOG	ROG	NOx	СО	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.38	2.35	10.6	0.01	0.10	_	0.10	0.09	_	0.09	_	1,511	1,511	0.06	0.01	_	1,516
Dust From Material Movemen	_	_	_	_	_		0.00	0.00	_	0.00	0.00							_
Onsite truck	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	0.00
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.02	0.10	0.46	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	66.2	66.2	< 0.005	< 0.005	_	66.4
Dust From Material Movemen		_	_	_	_	_	0.00	0.00	_	0.00	0.00	_	_	_	_	_	_	_
Onsite truck	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	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		< 0.005	0.02	0.08	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	11.0	11.0	< 0.005	< 0.005	_	11.0

Dust From Material Movemen		_	_	_	_	_	0.00	0.00	_	0.00	0.00	_	_	_	_	_	_	
Onsite truck	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	0.00
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.06	0.06	0.04	0.72	0.00	0.00	0.13	0.13	0.00	0.03	0.03	_	136	136	< 0.005	< 0.005	0.47	138
Vendor	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	0.00
Hauling	0.41	0.18	11.9	2.86	0.07	0.19	2.71	2.90	0.19	0.74	0.93	_	10,017	10,017	0.16	1.58	23.4	10,517
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	_	5.52	5.52	< 0.005	< 0.005	0.01	5.60
Vendor	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	0.00
Hauling	0.02	0.01	0.54	0.13	< 0.005	0.01	0.12	0.13	0.01	0.03	0.04	_	439	439	0.01	0.07	0.44	461
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	_	0.91	0.91	< 0.005	< 0.005	< 0.005	0.93
Vendor	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	0.00
Hauling	< 0.005	< 0.005	0.10	0.02	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	_	72.7	72.7	< 0.005	0.01	0.07	76.2

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

Land Use	TOG	ROG	NOx	СО	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unrefrige rated Warehou se-No Rail	18.9	15.4	119	210	1.27	1.88	62.7	64.6	1.79	16.3	18.1	_	132,972	132,972	2.99	15.5	366	138,033
Other Asphalt Surfaces	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	0.00
Total	18.9	15.4	119	210	1.27	1.88	62.7	64.6	1.79	16.3	18.1	_	132,972	132,972	2.99	15.5	366	138,033
Daily, Winter (Max)	_	_	_	_	-	_	_	_	_	-	_	_	_	_	_	-	_	_
Unrefrige rated Warehou se-No Rail	17.9	14.5	129	175	1.23	1.88	62.7	64.6	1.80	16.3	18.1	_	129,472	129,472	3.08	15.7	9.49	134,227
Other Asphalt Surfaces	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	0.00
Total	17.9	14.5	129	175	1.23	1.88	62.7	64.6	1.80	16.3	18.1	_	129,472	129,472	3.08	15.7	9.49	134,227
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unrefrige rated Warehou se-No Rail	3.28	2.65	22.9	32.7	0.23	0.34	11.4	11.8	0.33	2.96	3.29	_	21,569	21,569	0.50	2.58	26.2	22,377
Other Asphalt Surfaces	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	0.00

Total	3.28	2.65	22.9	32.7	0.23	0.34	11.4	11.8	0.33	2.96	3.29	_	21,569	21,569	0.50	2.58	26.2	22,377
iotai	0.20	2.00	22.0	02.7	0.20	0.01	1	11.0	0.00	2.00	0.20		21,000	21,000	0.00	2.00	20.2	22,011

4.1.2. Mitigated

Land	TOG	ROG	NOx	СО	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Use	100	ROG	INOX		302	FINITOL	FINITOD	FINITOT	FIVIZ.3E	FIVIZ.3D	FIVIZ.31	BC02	NBCO2	0021	0114	INZU		CO26
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	-	_	_	_	-	_	_	-	_
Unrefrige rated Warehou se-No Rail	18.9	15.4	119	210	1.27	1.88	62.7	64.6	1.79	16.3	18.1	_	132,972	132,972	2.99	15.5	366	138,033
Other Asphalt Surfaces	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	0.00
Total	18.9	15.4	119	210	1.27	1.88	62.7	64.6	1.79	16.3	18.1	_	132,972	132,972	2.99	15.5	366	138,033
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unrefrige rated Warehou se-No Rail	17.9	14.5	129	175	1.23	1.88	62.7	64.6	1.80	16.3	18.1	_	129,472	129,472	3.08	15.7	9.49	134,227
Other Asphalt Surfaces	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	0.00
Total	17.9	14.5	129	175	1.23	1.88	62.7	64.6	1.80	16.3	18.1	_	129,472	129,472	3.08	15.7	9.49	134,227
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_		_	_	_	_

Unrefrige rated Warehou se-No Rail	3.28	2.65	22.9	32.7	0.23	0.34	11.4	11.8	0.33	2.96	3.29	_	21,569	21,569	0.50	2.58	26.2	22,377
Other Asphalt Surfaces	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	0.00
Total	3.28	2.65	22.9	32.7	0.23	0.34	11.4	11.8	0.33	2.96	3.29	_	21,569	21,569	0.50	2.58	26.2	22,377

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

Land Use	TOG	ROG	NOx	СО	SO2			PM10T	PM2.5E			BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unrefrige rated Warehou se-No Rail	_	_	_	_	_	_	_	_	_	_		_	10,176	10,176	1.65	0.20	_	10,277
Other Asphalt Surfaces	_	_	_	_	_	_	_	_	_	_	_	_	0.00	0.00	0.00	0.00	_	0.00
Total	_	_	_	_	_	_	_	_	_	_	_	_	10,176	10,176	1.65	0.20	_	10,277
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

Unrefrige rated Warehou se-No Rail	_	_	_	_	_	_	_	_	_	_	_	_	10,176	10,176	1.65	0.20	_	10,277
Other Asphalt Surfaces	_	_	_	_	_	_	_	_	_	_	_	_	0.00	0.00	0.00	0.00	_	0.00
Total	_	_	_	_		_	_	_	_	_	_	_	10,176	10,176	1.65	0.20	_	10,277
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unrefrige rated Warehou se-No Rail	_	_	_	_	_	_	_	_	_	_	_	_	1,685	1,685	0.27	0.03	_	1,701
Other Asphalt Surfaces	_	_	_	_	_	_	_	_	_	_	_	_	0.00	0.00	0.00	0.00	_	0.00
Total	_	_	_	_	_	_	_	_	_	_	_	_	1,685	1,685	0.27	0.03	_	1,701

4.2.2. Electricity Emissions By Land Use - Mitigated

Land Use	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unrefrige rated Warehou se-No Rail	_	_	_	_	_	_	_	_	_	_	_	_	6,170	6,170	1.00	0.12	_	6,231
Other Asphalt Surfaces	_	_	_	_	_	_	_	_	_	_	_	_	0.00	0.00	0.00	0.00	_	0.00

Total	_	_	_	_	_	_	_	_	_	_	_	_	6,170	6,170	1.00	0.12	_	6,231
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unrefrige rated Warehou se-No Rail		_	_	_	_	_	_	_	_	_	_	_	6,170	6,170	1.00	0.12	_	6,231
Other Asphalt Surfaces	_	_	_	_	_	_	_	_	_	_	_	_	0.00	0.00	0.00	0.00	_	0.00
Total	_	_	_	_	_	_	_	_	_	_	_	_	6,170	6,170	1.00	0.12	_	6,231
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unrefrige rated Warehou se-No Rail	_	_	_	_	_	_	_	_	_	_	_	_	1,021	1,021	0.17	0.02	_	1,032
Other Asphalt Surfaces	_	_	_	-	_	_	_	_	_	_	_	_	0.00	0.00	0.00	0.00	_	0.00
Total	_	_	_	_	_	_	_	_	_	_	_	_	1,021	1,021	0.17	0.02	_	1,032

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Land Use	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily,	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Summer																		
(Max)																		

Unrefrige rated Warehou se-No Rail	0.29	0.14	2.60	2.19	0.02	0.20	_	0.20	0.20	_	0.20	_	3,107	3,107	0.27	0.01	_	3,115
Other Asphalt Surfaces	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
Total	0.29	0.14	2.60	2.19	0.02	0.20	_	0.20	0.20	_	0.20	_	3,107	3,107	0.27	0.01	_	3,115
Daily, Winter (Max)	_	_	-	_	_	_	_	-	_	-	_	_	_	-	_	_	-	_
Unrefrige rated Warehou se-No Rail	0.29	0.14	2.60	2.19	0.02	0.20	_	0.20	0.20	_	0.20	-	3,107	3,107	0.27	0.01	_	3,115
Other Asphalt Surfaces	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
Total	0.29	0.14	2.60	2.19	0.02	0.20	_	0.20	0.20	_	0.20	_	3,107	3,107	0.27	0.01	_	3,115
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unrefrige rated Warehou se-No Rail	0.05	0.03	0.48	0.40	< 0.005	0.04	_	0.04	0.04	_	0.04	-	514	514	0.05	< 0.005	_	516
Other Asphalt Surfaces	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
Total	0.05	0.03	0.48	0.40	< 0.005	0.04	_	0.04	0.04	_	0.04	_	514	514	0.05	< 0.005	_	516

4.2.4. Natural Gas Emissions By Land Use - Mitigated

Land Use	TOG	ROG	NOx	СО	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	-	_	-	-	-	-	_	_	-	-	_	-	-	-	-	-	-
Unrefrige rated Warehou se-No Rail	0.29	0.14	2.60	2.19	0.02	0.20	_	0.20	0.20	_	0.20	_	3,107	3,107	0.27	0.01	_	3,115
Other Asphalt Surfaces	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
Total	0.29	0.14	2.60	2.19	0.02	0.20	_	0.20	0.20	_	0.20	_	3,107	3,107	0.27	0.01	_	3,115
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	-	_	_	_	_	_	-	_
Unrefrige rated Warehou se-No Rail	0.29	0.14	2.60	2.19	0.02	0.20	_	0.20	0.20	_	0.20	_	3,107	3,107	0.27	0.01	_	3,115
Other Asphalt Surfaces	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
Total	0.29	0.14	2.60	2.19	0.02	0.20	_	0.20	0.20	_	0.20	_	3,107	3,107	0.27	0.01	_	3,115
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unrefrige rated Warehou se-No Rail	0.05	0.03	0.48	0.40	< 0.005	0.04	_	0.04	0.04	_	0.04	_	514	514	0.05	< 0.005	_	516
Other Asphalt Surfaces	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
Total	0.05	0.03	0.48	0.40	< 0.005	0.04	_	0.04	0.04	_	0.04	_	514	514	0.05	< 0.005	_	516

4.3. Area Emissions by Source

4.3.1. Unmitigated

Chlena	Poliulan	its (ib/da	y for dall	y, ton/yr	for annu	ial) and	GHGS (I	b/day for	daliy, iv	11/yr for	annuai)							
Source	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Consum er Products	_	18.9	_	_		_		_	_	_	_	_		_		_	_	_
Architect ural Coatings	_	2.43	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Landsca pe Equipme nt	13.5	12.5	0.64	75.9	< 0.005	0.13	_	0.13	0.10	_	0.10	_	312	312	0.01	< 0.005	_	313
Total	13.5	33.8	0.64	75.9	< 0.005	0.13	_	0.13	0.10	_	0.10	_	312	312	0.01	< 0.005	_	313
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Consum er Products	_	18.9	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Architect ural Coatings	_	2.43	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	21.3	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Consum er Products	_	3.45	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

Architect ural	_	0.44	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Landsca pe Equipme nt	1.21	1.12	0.06	6.83	< 0.005	0.01	_	0.01	0.01	_	0.01	_	25.5	25.5	< 0.005	< 0.005	_	25.6
Total	1.21	5.01	0.06	6.83	< 0.005	0.01	_	0.01	0.01	_	0.01	_	25.5	25.5	< 0.005	< 0.005	_	25.6

4.3.2. Mitigated

Source	TOG	ROG	NOx	СО	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Consum er Products	_	18.9	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Architect ural Coatings	_	2.43	_	_	_		_	_	_	_	_	_	_	_	_	_	_	_
Landsca pe Equipme nt	13.5	12.5	0.64	75.9	< 0.005	0.13	_	0.13	0.10	_	0.10	_	312	312	0.01	< 0.005	_	313
Total	13.5	33.8	0.64	75.9	< 0.005	0.13	_	0.13	0.10	_	0.10	_	312	312	0.01	< 0.005	_	313
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Consum er Products	_	18.9	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Architect ural Coatings	_	2.43	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

Total	_	21.3	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Consum er Products	_	3.45	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Architect ural Coatings	_	0.44	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Landsca pe Equipme nt	1.21	1.12	0.06	6.83	< 0.005	0.01	_	0.01	0.01	_	0.01	_	25.5	25.5	< 0.005	< 0.005	_	25.6
Total	1.21	5.01	0.06	6.83	< 0.005	0.01	_	0.01	0.01	_	0.01	_	25.5	25.5	< 0.005	< 0.005	_	25.6

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

Land Use	TOG	ROG		со	SO2	PM10E		PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unrefrige rated Warehou se-No Rail	_	_	_	_	_	_	_	_	_	_	_	773	735	1,509	79.4	1.90	_	4,059
Other Asphalt Surfaces	_	_	_	_	_	_	_	_	_	_	_	0.00	0.00	0.00	0.00	0.00	_	0.00
Total	_	_	_	_	_	_	_	_	_	_	_	773	735	1,509	79.4	1.90	_	4,059

Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unrefrige rated Warehou se-No Rail		_		_	_	_	_	_	_	_	_	773	735	1,509	79.4	1.90	_	4,059
Other Asphalt Surfaces	_	_	_	_	_	_	_	_	_	_	_	0.00	0.00	0.00	0.00	0.00	_	0.00
Total	_	_	_	_	_	_	_	_	_	_	_	773	735	1,509	79.4	1.90	_	4,059
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unrefrige rated Warehou se-No Rail	_	_	_	_	_	_	_	_	_	_	_	128	122	250	13.1	0.31	_	672
Other Asphalt Surfaces	_	_	_	_	_	_	_	_	_	_	_	0.00	0.00	0.00	0.00	0.00	_	0.00
Total	_	_	_	_	_	_	_	_	_	_	_	128	122	250	13.1	0.31	_	672

4.4.2. Mitigated

Land Use	TOG	ROG	NOx	СО	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unrefrige rated Warehou se-No Rail	_	_	_	_	_	_	_	_	_	_	_	773	735	1,509	79.4	1.90	_	4,059

Other Asphalt Surfaces	_	_	_	_	_	_	_	_	_	_	_	0.00	0.00	0.00	0.00	0.00	_	0.00
Total	_	_	_	_	_	_	_	_	_	_	_	773	735	1,509	79.4	1.90	_	4,059
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unrefrige rated Warehou se-No Rail	_	_	_	_	_	_	_	_	_	_	_	773	735	1,509	79.4	1.90	_	4,059
Other Asphalt Surfaces	_	_	_	_	_	_	_	_	_	_	_	0.00	0.00	0.00	0.00	0.00	_	0.00
Total	_	_	_	_	_	_	_	_	_	_	_	773	735	1,509	79.4	1.90	_	4,059
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unrefrige rated Warehou se-No Rail	_	_	_	_	_	_	_	_	_	_	_	128	122	250	13.1	0.31	_	672
Other Asphalt Surfaces	_	_	_	_	_	_	_	_	_	_	_	0.00	0.00	0.00	0.00	0.00	_	0.00
Total	_	_	_	_	_	_	_	_	_	_	_	128	122	250	13.1	0.31	_	672

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

- 1			(,	<i>J</i> , <i>J</i> -			(-	· · · · · · · · · · · · · · · · · · ·			,							
	Land	TOG	ROG	NOx	СО	SO2	DM40E	PM10D	DMAOT	DM2.5E	DM2 FD	DM2.5T	BCO2	NIPCO2	COST	CH4	NOO	В	CO2e
	Lanu	100	RUG	INUX		302	PIVITUE	PINITUD	PIVITUT	PIVIZ.SE	FIVIZ.SD	FIVIZ.51	DCU2	INDCUZ	0021	UП 4	INZU	K	COZE
	Use																		

																	_	
Daily, Summer (Max)		_	_	_	_	_			_	_		_	_	_	_	_	_	_
Unrefrige rated Warehou se-No Rail	_	_	_	_	_	_	_	_	_	_	_	884	0.00	884	88.4	0.00	_	3,093
Other Asphalt Surfaces	_	_	_	_	_	_	_	_	_	_	_	0.00	0.00	0.00	0.00	0.00	_	0.00
Total	_	_	_	_	_	_	_	_	_	_	_	884	0.00	884	88.4	0.00	_	3,093
Daily, Winter (Max)	_	_	_	_	_	-	_	_	_	-	_	_	_	_	-	_	_	-
Unrefrige rated Warehou se-No Rail	_	_	_	_	_	_	_	_	_	_	_	884	0.00	884	88.4	0.00	_	3,093
Other Asphalt Surfaces	_	_	_	_	_	_	_	_	_	_	_	0.00	0.00	0.00	0.00	0.00	_	0.00
Total	_	_	_	_	_	_	_	_	_	_	_	884	0.00	884	88.4	0.00	_	3,093
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unrefrige rated Warehou se-No Rail	_	_	_	_	_	_	_	_	_	_	_	146	0.00	146	14.6	0.00	_	512
Other Asphalt Surfaces	_	_	_	_	_	_	_	_	_	_	_	0.00	0.00	0.00	0.00	0.00	_	0.00
Total	_	_	_	_	_	_	_	_	_	_	_	146	0.00	146	14.6	0.00	_	512

4.5.2. Mitigated

Land Use	TOG	ROG	NOx	СО	SO2	PM10E	PM10D	PM10T	PM2.5E		PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	-	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unrefrige rated Warehou se-No Rail	_	_	_	_	_	_	_	_	_	_	_	884	0.00	884	88.4	0.00	_	3,093
Other Asphalt Surfaces	_	_	_	_	_	_	_	_	_	_	_	0.00	0.00	0.00	0.00	0.00	_	0.00
Total	_	_	_	_	_	_	_	_	_	_	_	884	0.00	884	88.4	0.00	_	3,093
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	-	_	_	_	_
Unrefrige rated Warehou se-No Rail	_	_	_	_	_	_	_	_	_	_	_	884	0.00	884	88.4	0.00	_	3,093
Other Asphalt Surfaces	_	_	_	_	_	_	_	_	_	_	_	0.00	0.00	0.00	0.00	0.00	_	0.00
Total	_	_	_	_	_	_	_	_	_	_	_	884	0.00	884	88.4	0.00	_	3,093
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unrefrige rated Warehou se-No Rail	_	_	_	_	_	_	_	_	_	_	_	146	0.00	146	14.6	0.00	_	512

Other Asphalt Surfaces	_	_	_	_	_	_	_	_	_	_	_	0.00	0.00	0.00	0.00	0.00	_	0.00
Total	_	_	_	_	_	_	_	_	_	_	_	146	0.00	146	14.6	0.00	_	512

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG		NOx	СО	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total		_	_	_		_	_	_	_	_	<u> </u>	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

4.6.2. Mitigated

	TOG	ROG					PM10D					BCO2	NBCO2	COST	CH4	N2O	D	CO2e
Use	100	NOO	INOX		302	TWITUL	TINTOD	TIVITOI	T WZ.JL	T IVIZ.3D	1 1012.51	DCO2	NBCOZ	0021	OF 14	INZO	K	GOZE
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

				<i>,</i> ,														
Equipme nt	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

4.7.2. Mitigated

Equipme	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
nt																		
Туре																		

Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	<u> </u>	_	_	_	_	_	_	_	_	_
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipme nt Type	TOG	ROG	NOx	СО	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_		_	_	_	_	_	_	_		_	_	_	_	_	_		_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

4.8.2. Mitigated

Equipme Type	TOG	ROG	NOx	СО	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	<u> </u>	_		_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

Equipme nt Type	TOG	ROG		со		PM10E				PM2.5D		BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

4.9.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipme nt Type	TOG	ROG	NOx	СО	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Vegetatio n	TOG	ROG		со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

Total	_	_	_	_	_	_	_	 _	_	_	_	_	 _	_	_	_
iotai																

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	СО2Т	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Species	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Avoided	_		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Sequest ered	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Remove d	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Avoided	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Sequest ered	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_		_	_	_	_	_
Remove d	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Avoided	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Sequest ered	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Remove d	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

011t011G	· Onatan	,	, .c. aa	<i>y</i> ,, <i>y</i> .	.0	.a., aa	O Oo (o, aay .c.	u.u.,,	, ,	ai ii iaai,							
Vegetatio	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
n																		

Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

4.10.5. Above and Belowground Carbon Accumulation by Land Use Type - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

O 1 1 1 0 1 1 0 K		(1107 0101		iy, tori/yr		<u> </u>												
Land Use	TOG	ROG	NOx	СО	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5F	PM2 5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Openio	100	11100	IIIOA	100	0 0 _	1	1	1 11110	I IVIL.OL	11 1112.00	11 1112.01	1000	1.1000	0 0	0111	11120		10020

Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Avoided	_	_	_	_	_	_	_	_	_	_	_	_		_	_	_	_	_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Sequest ered	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_		_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Remove d	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Avoided	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Sequest ered	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Remove d	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
_	_	_	_	_	_	_	_	_	_	_	_	_		_	_	_	_	_
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Avoided	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Sequest ered	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

Remove d	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Phase 2 - Paving	Grading	7/21/2026	8/7/2026	6.00	16.0	Paving (Phase 2)

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Phase 2 - Paving	Pavers	Diesel	Tier 4 Final	2.00	8.00	81.0	0.42
Phase 2 - Paving	Paving Equipment	Diesel	Tier 4 Final	2.00	8.00	89.0	0.36
Phase 2 - Paving	Rollers	Diesel	Average	2.00	8.00	36.0	0.38

5.2.2. Mitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Phase 2 - Paving	Pavers	Diesel	Tier 4 Final	2.00	8.00	81.0	0.42
Phase 2 - Paving	Paving Equipment	Diesel	Tier 4 Final	2.00	8.00	89.0	0.36
Phase 2 - Paving	Rollers	Diesel	Average	2.00	8.00	36.0	0.38

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Тгір Туре	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Phase 2 - Paving	_	_	_	_
Phase 2 - Paving	Worker	15.0	11.9	LDA,LDT1,LDT2
Phase 2 - Paving	Vendor	_	9.10	HHDT,MHDT
Phase 2 - Paving	Hauling	146	20.0	HHDT
Phase 2 - Paving	Onsite truck	_	_	HHDT

5.3.2. Mitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Phase 2 - Paving	_	_	_	_
Phase 2 - Paving	Worker	15.0	11.9	LDA,LDT1,LDT2
Phase 2 - Paving	Vendor	_	9.10	HHDT,MHDT
Phase 2 - Paving	Hauling	146	20.0	HHDT
Phase 2 - Paving	Onsite truck	_	_	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Non-applicable. No control strategies activated by user.

5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated	Residential Exterior Area Coated	Non-Residential Interior Area	Non-Residential Exterior Area	Parking Area Coated (sq ft)
	(sq ft)	(sq ft)	Coated (sq ft)	Coated (sq ft)	

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (Cubic Yards)	Material Exported (Cubic Yards)	Acres Graded (acres)	Material Demolished (sq. ft.)	Acres Paved (acres)
Phase 2 - Paving	0.00	0.00	42.0	0.00	_

5.6.2. Construction Earthmoving Control Strategies

Non-applicable. No control strategies activated by user.

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Unrefrigerated Warehouse-No Rail	0.00	0%
Unrefrigerated Warehouse-No Rail	0.00	0%
Other Asphalt Surfaces	62.9	100%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2026	0.00	204	0.03	< 0.005

5.9. Operational Mobile Sources

5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Unrefrigerated Warehouse-No Rail	3,800	3,800	3,800	1,387,000	81,215	81,215	81,215	29,643,308
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

5.9.2. Mitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Unrefrigerated Warehouse-No Rail	3,800	3,800	3,800	1,387,000	81,215	81,215	81,215	29,643,308
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.1.2. Mitigated

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
0	0.00	2,617,590	872,530	164,500

5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	180

5.10.4. Landscape Equipment - Mitigated

Season	Unit	Value
Codosii	O'III	value

Snow Days	day/yr	0.00
Summer Days	day/yr	180

5.11. Operational Energy Consumption

5.11.1. Unmitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)	
Unrefrigerated Warehouse-No Rail	5,669,475	204	0.0330	0.0040	3,018,108	
Unrefrigerated Warehouse-No Rail	12,539,669	204	0.0330	0.0040	6,675,412	
Other Asphalt Surfaces	0.00	204	0.0330	0.0040	0.00	

5.11.2. Mitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Unrefrigerated Warehouse-No Rail	3,437,379	204	0.0330	0.0040	3,018,108
Unrefrigerated Warehouse-No Rail	7,602,748	204	0.0330	0.0040	6,675,412
Other Asphalt Surfaces	0.00	204	0.0330	0.0040	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)	
Unrefrigerated Warehouse-No Rail	125,645,063	0.00	
Unrefrigerated Warehouse-No Rail	277,900,063	0.00	

Other Asphalt Surfaces	0.00	0.00

5.12.2. Mitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)	
Unrefrigerated Warehouse-No Rail	125,645,063	0.00	
Unrefrigerated Warehouse-No Rail	277,900,063	0.00	
Other Asphalt Surfaces	0.00	0.00	

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Unrefrigerated Warehouse-No Rail	511	_
Unrefrigerated Warehouse-No Rail	1,130	_
Other Asphalt Surfaces	0.00	_

5.13.2. Mitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Unrefrigerated Warehouse-No Rail	511	_
Unrefrigerated Warehouse-No Rail	1,130	_
Other Asphalt Surfaces	0.00	_

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Lond Hoo Time	Equipment Time	Defries word	CMD	Overatity (leas)	One retional sale Data	Comise Leek Data	Times Completed
Land Use Type	Equipment Type	Reingerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	rimes Serviced

5.14.2. Mitigated

Land Use Type Equipment Type Refrigerant GWP Quantity (kg) Operations Leak Rate Service Leak Rate Times Serviced

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
1.1						

5.15.2. Mitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Equipment Type	i dei Type	Engine Her	Number per Day	Tiours I et Day	Horsepower	Luau i aciui

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Veer	Horcopowor	Load Factor
Equipment type	ruel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	LUAU FACIOI

5.16.2. Process Boilers

	F	Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/vr)
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5.17. User Defined

Equipment Type	Fuel Type
_	_

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

 Vegetation Land Use Type
 Vegetation Soil Type
 Initial Acres
 Final Acres

5.18.1.2. Mitigated

Vegetation Land Use Type Vegetation Soil Type Initial Acres Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type Final Acres Final Acres

5.18.1.2. Mitigated

Biomass Cover Type Final Acres Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type Number Electricity Saved (kWh/year) Natural Gas Saved (btu/year)

5.18.2.2. Mitigated

Tree Type Number Electricity Saved (kWh/year) Natural Gas Saved (btu/year)

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	21.4	annual days of extreme heat
Extreme Precipitation	0.95	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	21.1	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters

Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	1	0	0	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	0	0	0	N/A
Drought	0	0	0	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	0	0	0	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	1	1	1	2
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	1	1	1	2
Drought	1	1	1	2
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	1	1	1	2

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	_
AQ-Ozone	60.9

1.6
3.4
2.8
.00
6.8
4.6
9.8
_
0.5
0.9
8.2
.00
.00
_
8.8
3.9
1.8
_
2.2
3.1
9.8
0.9
9.2
2

7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator Result for Project Census Tract

	,
Economic	_
Above Poverty	74.83639163
Employed	47.8121391
Median HI	86.88566662
Education	_
Bachelor's or higher	55.60118055
High school enrollment	26.62645964
Preschool enrollment	40.40805851
Transportation	_
Auto Access	81.29090209
Active commuting	36.22481714
Social	_
2-parent households	64.72475298
Voting	66.31592455
Neighborhood	_
Alcohol availability	90.27332221
Park access	51.80290004
Retail density	7.327088413
Supermarket access	28.5255999
Tree canopy	47.95329142
Housing	_
Homeownership	80.99576543
Housing habitability	92.24945464
Low-inc homeowner severe housing cost burden	86.9626588
Low-inc renter severe housing cost burden	79.71256256
Uncrowded housing	69.47260362
Health Outcomes	_

Insured adults	66.05928397
Arthritis	86.1
Asthma ER Admissions	51.6
High Blood Pressure	59.0
Cancer (excluding skin)	71.8
Asthma	65.7
Coronary Heart Disease	90.3
Chronic Obstructive Pulmonary Disease	86.1
Diagnosed Diabetes	79.4
Life Expectancy at Birth	59.9
Cognitively Disabled	66.4
Physically Disabled	93.4
Heart Attack ER Admissions	15.0
Mental Health Not Good	64.8
Chronic Kidney Disease	85.5
Obesity	59.8
Pedestrian Injuries	44.0
Physical Health Not Good	76.2
Stroke	88.3
Health Risk Behaviors	_
Binge Drinking	38.6
Current Smoker	56.8
No Leisure Time for Physical Activity	54.5
Climate Change Exposures	_
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	39.2

Elderly	81.9
English Speaking	58.2
Foreign-born	64.0
Outdoor Workers	48.3
Climate Change Adaptive Capacity	_
Impervious Surface Cover	33.7
Traffic Density	70.0
Traffic Access	0.0
Other Indices	_
Hardship	46.2
Other Decision Support	_
2016 Voting	49.3

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	43.0
Healthy Places Index Score for Project Location (b)	72.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Land Use	Land uses consistent with site plan. 103.0 acres total of Development Area.
Construction: Construction Phases	No demolition. Construction phases and phase lengths as provided by Project applicant. Phase 2 - Paving modeled only. 6 days per week of construction activity, as provided by Project applicant.
Operations: Fleet Mix	Revised fleet mix to reflect fleet mix provided in Traffic Study (Kimley Horn, 2022). Also trip rates and VMT revised to reflect what is provided in Traffic Study (Kimley Horn, 2022). 29 mile trip length was assumed for HHD vehicles; 17.7478024 trip length (conservative assumption based on largest default CalEEMod assumed trip length value) was assumed for all other vehicles, for a weighted average trip length of 21.37224776 miles. Fleet mix is adjusted to reflect heavy-duty truck mix of 32.211% (as provided by Kimley Horn).
Operations: Consumer Products	Revised General Category consumer products emissions factor to reflect CARB adjustments applied to their Consumer and Commercial Product Survey Emission data, made after the 2008 consumer products emissions factor. Adjustment made to reflect average adjustment factor. See for further detail: https://ww2.arb.ca.gov/our-work/programs/consumer-products-program/consumer-products-emissions-in 0.0000107
Operations: Vehicle Data	Trip rates revised to reflect that the heavy-duty truck trips would average approximately 29 miles per trip. The trip distances for passenger vehicles provided by the defaults in the CalEEMod model were averaged (weighted) with the heavy-duty truck trip distance of 29 miles. This equals a weighted average travel distance of 21.37224776 miles. Trip rate is 3,800 trips per day, consistent with what was provided by Kimley Horn.
Construction: Dust From Material Movement	No soil import or export during Paving - Phase 2 construction phase.
Construction: Off-Road Equipment	Off-road equipment detail as provided by Project applicant.
Construction: Trips and VMT	Hauling trips as provided by Project applicant.

Tracy Costco - Building 1 Only (Operational) Detailed Report

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1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Tracy Costco - Building 1 Only (Operational)
Construction Start Date	7/8/2024
Operational Year	2026
Lead Agency	_
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	3.00
Precipitation (days)	6.60
Location	37.72034841082716, -121.51274124970524
County	San Joaquin
City	Unincorporated
Air District	San Joaquin Valley APCD
Air Basin	San Joaquin Valley
TAZ	2107
EDFZ	4
Electric Utility	Pacific Gas & Electric Company
Gas Utility	Pacific Gas & Electric
App Version	2022.1.1.20

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq	Special Landscape	Population	Description
					ft)	Area (sq ft)		

Unrefrigerated Warehouse-No Rail	543	1000sqft	12.5	543,330	0.00	0.00	_	_
Other Asphalt Surfaces	62.9	Acre	62.9	0.00	0.00	0.00	_	_

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Construction	C-10-A	Water Exposed Surfaces
Transportation	T-14*	Provide Electric Vehicle Charging Infrastructure
Transportation	T-34*	Provide Bike Parking
Transportation	T-35*	Provide Tra c Calming Measures
Energy	E-2	Require Energy Efficient Appliances
Energy	E-10-B	Establish Onsite Renewable Energy Systems: Solar Power

^{*} Qualitative or supporting measure. Emission reductions not included in the mitigated emissions results.

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

Un/Mit.	TOG	ROG	NOx	СО	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unmit.	5.53	4.99	36.6	148	0.26	0.91	19.8	19.9	0.87	10.1	10.3	_	32,211	32,211	1.19	1.31	27.5	32,657
Mit.	5.53	4.99	36.6	148	0.26	0.91	7.81	8.65	0.87	3.97	4.11	_	32,211	32,211	1.19	1.31	27.5	32,657
% Reduced	_	_	_	_	_	_	61%	57%	_	61%	60%	_	_	_	_	_	_	_

Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unmit.	5.42	7.86	37.4	145	0.26	0.91	15.0	15.5	0.87	4.69	5.56	_	31,941	31,941	1.13	1.31	0.77	32,359
Mit.	5.42	7.86	37.4	145	0.26	0.91	7.75	8.65	0.87	2.50	3.37	_	31,941	31,941	1.13	1.31	0.77	32,359
% Reduced	_	_	_	_	_	_	48%	44%	_	47%	39%	_	_	_	_	_	_	_
Average Daily (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unmit.	3.76	3.83	23.8	95.5	0.16	0.58	9.56	10.1	0.55	3.60	4.16	_	19,880	19,880	0.71	0.66	7.04	20,100
Mit.	3.76	3.83	23.8	95.5	0.16	0.58	5.45	6.03	0.55	1.83	2.38	_	19,880	19,880	0.71	0.66	7.04	20,100
% Reduced	_	_	_	_	_	_	43%	41%	_	49%	43%	_	_	_	_	_	_	_
Annual (Max)	_	_	_	_	_	_	_	_	_	_	_	-	_	_	_	_	_	_
Unmit.	0.69	0.70	4.34	17.4	0.03	0.11	1.75	1.85	0.10	0.66	0.76	_	3,291	3,291	0.12	0.11	1.17	3,328
Mit.	0.69	0.70	4.34	17.4	0.03	0.11	1.00	1.10	0.10	0.33	0.43	_	3,291	3,291	0.12	0.11	1.17	3,328
% Reduced	_	_	_	_	_	_	43%	41%	_	49%	43%	_	_	_	_	_	-	_

2.2. Construction Emissions by Year, Unmitigated

Year	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	всо2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
2024	2.51	2.39	16.9	107	0.21	0.51	19.8	19.9	0.51	10.1	10.3	_	24,917	24,917	0.93	0.87	12.2	25,211
2025	5.53	4.99	36.6	148	0.26	0.91	13.0	13.9	0.87	4.69	5.56	_	32,211	32,211	1.19	1.31	27.5	32,657
2026	2.89	2.47	23.2	52.8	0.11	0.42	4.61	5.03	0.40	1.09	1.50	_	16,200	16,200	0.44	1.30	25.3	16,623

Daily - Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
2024	3.89	3.49	24.4	107	0.21	0.56	15.0	15.5	0.54	4.52	5.02	_	24,878	24,878	0.93	0.87	0.44	25,161
2025	5.42	7.86	37.4	145	0.26	0.91	13.0	13.9	0.87	4.69	5.56	_	31,941	31,941	1.13	1.31	0.77	32,359
2026	2.06	1.79	13.7	32.5	0.06	0.22	2.60	2.82	0.21	0.64	0.84	_	8,180	8,180	0.25	0.48	0.34	8,331
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
2024	0.97	0.91	6.53	40.1	0.08	0.19	6.27	6.46	0.19	2.10	2.29	_	9,246	9,246	0.35	0.31	1.96	9,350
2025	3.76	3.83	23.8	95.5	0.16	0.58	9.56	10.1	0.55	3.60	4.16	_	19,880	19,880	0.71	0.66	7.04	20,100
2026	1.24	1.07	8.93	20.6	0.04	0.15	1.72	1.87	0.14	0.42	0.56	_	5,678	5,678	0.16	0.39	3.90	5,802
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
2024	0.18	0.17	1.19	7.32	0.01	0.04	1.14	1.18	0.03	0.38	0.42	_	1,531	1,531	0.06	0.05	0.32	1,548
2025	0.69	0.70	4.34	17.4	0.03	0.11	1.75	1.85	0.10	0.66	0.76	_	3,291	3,291	0.12	0.11	1.17	3,328
2026	0.23	0.20	1.63	3.76	0.01	0.03	0.31	0.34	0.03	0.08	0.10	_	940	940	0.03	0.06	0.65	961

2.3. Construction Emissions by Year, Mitigated

Year	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
2024	2.51	2.39	16.9	107	0.21	0.51	7.81	7.95	0.51	3.97	4.11	_	24,917	24,917	0.93	0.87	12.2	25,211
2025	5.53	4.99	36.6	148	0.26	0.91	7.75	8.65	0.87	2.50	3.37	_	32,211	32,211	1.19	1.31	27.5	32,657
2026	2.89	2.47	23.2	52.8	0.11	0.42	4.28	4.70	0.40	1.06	1.46	_	16,200	16,200	0.44	1.30	25.3	16,623
Daily - Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
2024	3.89	3.49	24.4	107	0.21	0.56	6.77	7.28	0.54	2.09	2.63	_	24,878	24,878	0.93	0.87	0.44	25,161
2025	5.42	7.86	37.4	145	0.26	0.91	7.75	8.65	0.87	2.50	3.37	_	31,941	31,941	1.13	1.31	0.77	32,359

2026	2.06	1.79	13.7	32.5	0.06	0.22	2.60	2.82	0.21	0.64	0.84	_	8,180	8,180	0.25	0.48	0.34	8,331
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
2024	0.97	0.91	6.53	40.1	0.08	0.19	2.80	2.99	0.19	0.91	1.10	_	9,246	9,246	0.35	0.31	1.96	9,350
2025	3.76	3.83	23.8	95.5	0.16	0.58	5.45	6.03	0.55	1.83	2.38	_	19,880	19,880	0.71	0.66	7.04	20,100
2026	1.24	1.07	8.93	20.6	0.04	0.15	1.67	1.82	0.14	0.41	0.55	_	5,678	5,678	0.16	0.39	3.90	5,802
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
2024	0.18	0.17	1.19	7.32	0.01	0.04	0.51	0.55	0.03	0.17	0.20	_	1,531	1,531	0.06	0.05	0.32	1,548
2025	0.69	0.70	4.34	17.4	0.03	0.11	1.00	1.10	0.10	0.33	0.43	_	3,291	3,291	0.12	0.11	1.17	3,328
2026	0.23	0.20	1.63	3.76	0.01	0.03	0.30	0.33	0.03	0.07	0.10	_	940	940	0.03	0.06	0.65	961

2.4. Operations Emissions Compared Against Thresholds

Un/Mit.	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unmit.	10.2	15.7	38.2	89.7	0.40	0.69	19.5	20.2	0.65	5.07	5.72	516	45,858	46,374	53.8	5.48	114	49,466
Mit.	10.2	15.7	38.2	89.7	0.40	0.69	19.5	20.2	0.65	5.07	5.72	516	43,099	43,615	53.3	5.43	114	46,680
% Reduced	_	_	_	_	_	_	_	_	_	_	_	_	6%	6%	1%	1%	_	6%
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	-	_	_	_	_	_
Unmit.	5.68	11.5	40.9	55.2	0.39	0.65	19.5	20.2	0.62	5.07	5.69	516	44,671	45,187	53.8	5.53	2.96	48,184
Mit.	5.68	11.5	40.9	55.2	0.39	0.65	19.5	20.2	0.62	5.07	5.69	516	41,912	42,428	53.3	5.48	2.96	45,397
% Reduced	_	_	_	_	_		_	_	_	_	_	_	6%	6%	1%	1%	_	6%

Average Daily (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	-	_	_	_
Unmit.	7.76	13.4	40.0	68.1	0.39	0.67	19.5	20.1	0.64	5.05	5.69	516	44,971	45,487	53.8	5.51	49.2	48,522
Mit.	7.76	13.4	40.0	68.1	0.39	0.67	19.5	20.1	0.64	5.05	5.69	516	42,212	42,728	53.3	5.46	49.2	45,736
% Reduced	_	_	_	_	_	_	_	_	_	_	_	_	6%	6%	1%	1%	_	6%
Annual (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unmit.	1.42	2.45	7.30	12.4	0.07	0.12	3.55	3.67	0.12	0.92	1.04	85.4	7,445	7,531	8.90	0.91	8.14	8,033
Mit.	1.42	2.45	7.30	12.4	0.07	0.12	3.55	3.67	0.12	0.92	1.04	85.4	6,989	7,074	8.83	0.90	8.14	7,572
% Reduced	_	_	_	_	_	_	_	_	_	_	_	_	6%	6%	1%	1%	_	6%

2.5. Operations Emissions by Sector, Unmitigated

Sector	TOG	ROG	NOx	СО	SO2	PM10E	PM10D	PM10T	PM2.5E		PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Mobile	5.88	4.80	37.1	65.4	0.39	0.59	19.5	20.1	0.56	5.07	5.63	_	41,396	41,396	0.93	4.83	114	42,972
Area	4.20	10.8	0.20	23.6	< 0.005	0.04	_	0.04	0.03	_	0.03	_	97.2	97.2	< 0.005	< 0.005	_	97.5
Energy	0.09	0.04	0.81	0.68	< 0.005	0.06	_	0.06	0.06	_	0.06	_	4,136	4,136	0.60	0.06	_	4,170
Water	_	_	_	_	_	_	_	_	_	_	_	241	229	470	24.7	0.59	_	1,264
Waste	_	_	_	_	_	_	_	_	_	_	_	275	0.00	275	27.5	0.00	_	963
Total	10.2	15.7	38.2	89.7	0.40	0.69	19.5	20.2	0.65	5.07	5.72	516	45,858	46,374	53.8	5.48	114	49,466
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Mobile	5.59	4.51	40.1	54.5	0.38	0.59	19.5	20.1	0.56	5.07	5.63	_	40,307	40,307	0.96	4.88	2.96	41,787

Area	_	6.93	_	_	_	_	_	-	_	_	_	_	_	_	_	_	_	_
Energy	0.09	0.04	0.81	0.68	< 0.005	0.06	_	0.06	0.06	_	0.06	_	4,136	4,136	0.60	0.06	_	4,170
Water	_	_	_	_	_	_	_	_	_	_	_	241	229	470	24.7	0.59	_	1,264
Waste	_	_	_	_	_	_	_	_	_	_	_	275	0.00	275	27.5	0.00	_	963
Total	5.68	11.5	40.9	55.2	0.39	0.65	19.5	20.2	0.62	5.07	5.69	516	44,671	45,187	53.8	5.53	2.96	48,184
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Mobile	5.60	4.53	39.1	55.8	0.39	0.59	19.5	20.0	0.56	5.05	5.61	_	40,558	40,558	0.94	4.85	49.2	42,078
Area	2.07	8.84	0.10	11.7	< 0.005	0.02	_	0.02	0.02	_	0.02	_	47.9	47.9	< 0.005	< 0.005	_	48.1
Energy	0.09	0.04	0.81	0.68	< 0.005	0.06	_	0.06	0.06	_	0.06	_	4,136	4,136	0.60	0.06	_	4,170
Water	_	_	_	_	_	_	_	_	_	_	_	241	229	470	24.7	0.59	_	1,264
Waste	_	_	_	_	_	_	_	_	_	_	_	275	0.00	275	27.5	0.00	_	963
Total	7.76	13.4	40.0	68.1	0.39	0.67	19.5	20.1	0.64	5.05	5.69	516	44,971	45,487	53.8	5.51	49.2	48,522
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Mobile	1.02	0.83	7.13	10.2	0.07	0.11	3.55	3.66	0.10	0.92	1.02	_	6,715	6,715	0.16	0.80	8.14	6,966
Area	0.38	1.61	0.02	2.13	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	7.93	7.93	< 0.005	< 0.005	_	7.96
Energy	0.02	0.01	0.15	0.12	< 0.005	0.01	_	0.01	0.01	_	0.01	_	685	685	0.10	0.01	_	690
Water	_	_	_	_	_	_	_	_	_	_	_	39.9	37.9	77.8	4.09	0.10	_	209
Waste	_	_	_	_	_	_	_	_	_	_	_	45.6	0.00	45.6	4.55	0.00	_	159
Total	1.42	2.45	7.30	12.4	0.07	0.12	3.55	3.67	0.12	0.92	1.04	85.4	7,445	7,531	8.90	0.91	8.14	8,033

2.6. Operations Emissions by Sector, Mitigated

Sector	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Mobile	5.88	4.80	37.1	65.4	0.39	0.59	19.5	20.1	0.56	5.07	5.63	_	41,396	41,396	0.93	4.83	114	42,972

Area	4.20	10.8	0.20	23.6	< 0.005	0.04	_	0.04	0.03	_	0.03	_	97.2	97.2	< 0.005	< 0.005	_	97.5
Energy	0.09	0.04	0.81	0.68	< 0.005	0.06	_	0.06	0.06	_	0.06	_	1,377	1,377	0.15	0.01	_	1,383
Water	_	_	_	<u> </u>	_	_	_	_	_	_	_	241	229	470	24.7	0.59	_	1,264
Waste	_	_	_	_	_	_	_	_	_	_	_	275	0.00	275	27.5	0.00	_	963
Total	10.2	15.7	38.2	89.7	0.40	0.69	19.5	20.2	0.65	5.07	5.72	516	43,099	43,615	53.3	5.43	114	46,680
Daily, Winter (Max)	_	_	_	-	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Mobile	5.59	4.51	40.1	54.5	0.38	0.59	19.5	20.1	0.56	5.07	5.63	_	40,307	40,307	0.96	4.88	2.96	41,787
Area	_	6.93	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Energy	0.09	0.04	0.81	0.68	< 0.005	0.06	_	0.06	0.06	_	0.06	_	1,377	1,377	0.15	0.01	_	1,383
Water	_	_	_	<u> </u>	_	_	_	_	_	_	_	241	229	470	24.7	0.59	_	1,264
Waste	_	_	_	_	_	_	_	_	_	_	_	275	0.00	275	27.5	0.00	_	963
Total	5.68	11.5	40.9	55.2	0.39	0.65	19.5	20.2	0.62	5.07	5.69	516	41,912	42,428	53.3	5.48	2.96	45,397
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Mobile	5.60	4.53	39.1	55.8	0.39	0.59	19.5	20.0	0.56	5.05	5.61	_	40,558	40,558	0.94	4.85	49.2	42,078
Area	2.07	8.84	0.10	11.7	< 0.005	0.02	_	0.02	0.02	_	0.02	_	47.9	47.9	< 0.005	< 0.005	_	48.1
Energy	0.09	0.04	0.81	0.68	< 0.005	0.06	_	0.06	0.06	_	0.06	_	1,377	1,377	0.15	0.01	_	1,383
Water	_	_	_		_	_	_	_	_	_	_	241	229	470	24.7	0.59	_	1,264
Waste	_	_	_	_	_	_	_	_	_	_	_	275	0.00	275	27.5	0.00	_	963
Total	7.76	13.4	40.0	68.1	0.39	0.67	19.5	20.1	0.64	5.05	5.69	516	42,212	42,728	53.3	5.46	49.2	45,736
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	
Mobile	1.02	0.83	7.13	10.2	0.07	0.11	3.55	3.66	0.10	0.92	1.02	_	6,715	6,715	0.16	0.80	8.14	6,966
Area	0.38	1.61	0.02	2.13	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	7.93	7.93	< 0.005	< 0.005	_	7.96
Energy	0.02	0.01	0.15	0.12	< 0.005	0.01	_	0.01	0.01	_	0.01	_	228	228	0.03	< 0.005	_	229
Water	_	_	_		_	_	_	_	_	_	_	39.9	37.9	77.8	4.09	0.10	_	209
Waste	_	_	_		_	_	_	_	_	_	_	45.6	0.00	45.6	4.55	0.00	_	159
Total	1.42	2.45	7.30	12.4	0.07	0.12	3.55	3.67	0.12	0.92	1.04	85.4	6,989	7,074	8.83	0.90	8.14	7,572

3. Construction Emissions Details

3.1. Site Preparation (2024) - Unmitigated

					r for anni													
Location	TOG	ROG	NOx	СО	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.70	3.61	37.4	0.07	0.14	_	0.14	0.14	_	0.14	_	7,375	7,375	0.30	0.06	_	7,400
Dust From Material Movemen	 :	_	_	_	_	_	19.7	19.7	_	10.1	10.1	_	_	_	_	_	_	_
Onsite truck	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	0.00
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.03	0.17	1.74	< 0.005	0.01	_	0.01	0.01	_	0.01	_	343	343	0.01	< 0.005	_	345
Dust From Material Movemen	_	_	_	_	_	_	0.92	0.92	_	0.47	0.47	_	_	_	_	_	_	_
Onsite truck	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	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.01	0.03	0.32	< 0.005	< 0.005	_	< 0.005	< 0.005	-	< 0.005	_	56.9	56.9	< 0.005	< 0.005	_	57.1

Dust From Material Movemen	_	_	_	_	_	_	0.17	0.17	_	0.09	0.09	_	_	_	_		_	_
Onsite truck	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	0.00
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_		_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.09	0.08	0.05	1.00	0.00	0.00	0.15	0.15	0.00	0.03	0.03	_	165	165	0.01	0.01	0.66	168
Vendor	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	0.00
Hauling	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	0.00
Daily, Winter (Max)	_	_	_	_		_	_	_	_	_	_	_	_	_	_	_	_	_
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	_	7.13	7.13	< 0.005	< 0.005	0.01	7.24
Vendor	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	0.00
Hauling	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	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	_	1.18	1.18	< 0.005	< 0.005	< 0.005	1.20
Vendor	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	0.00
Hauling	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	0.00

3.2. Site Preparation (2024) - Mitigated

Location	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

																	_	
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.70	3.61	37.4	0.07	0.14	_	0.14	0.14	_	0.14	-	7,375	7,375	0.30	0.06	_	7,400
Dust From Material Movemen		_	-	-	_	_	7.67	7.67	_	3.94	3.94	_	_	_	_	_	_	_
Onsite truck	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	0.00
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Average Daily	_	_	_	_	_	_	_	-	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.03	0.17	1.74	< 0.005	0.01	_	0.01	0.01	_	0.01	-	343	343	0.01	< 0.005	_	345
Dust From Material Movemen	_	_	-	-	_	_	0.36	0.36	_	0.18	0.18	_	_	_	_	_	_	_
Onsite truck	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	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.01	0.03	0.32	< 0.005	< 0.005	-	< 0.005	< 0.005	-	< 0.005	-	56.9	56.9	< 0.005	< 0.005	-	57.1
Dust From Material Movemen	<u></u>	_	_	_	_	_	0.07	0.07	_	0.03	0.03	_	_	_	_	_	_	_
Onsite truck	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	0.00
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

Daily, Summer (Max)	_	_	_	_	_	_	_	_	_		_	_	_	_	_	_	_	_
Worker	0.09	0.08	0.05	1.00	0.00	0.00	0.15	0.15	0.00	0.03	0.03	_	165	165	0.01	0.01	0.66	168
Vendor	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	0.00
Hauling	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	0.00
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	_	7.13	7.13	< 0.005	< 0.005	0.01	7.24
Vendor	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	0.00
Hauling	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	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	_	1.18	1.18	< 0.005	< 0.005	< 0.005	1.20
Vendor	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	0.00
Hauling	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	0.00

3.3. Phase 1 - Site Finishing (2025) - Unmitigated

Location	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	_	<u> </u>	_	_		_	_	_	_	_	<u> </u>	<u> </u>	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.47	3.88	15.9	0.02	0.11	_	0.11	0.11	_	0.11	_	2,678	2,678	0.11	0.02	_	2,687

Dust From Material Movement	_	_			_	_	0.53	0.53		0.06	0.06	_	_	_	_	_	_	_
Onsite truck	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	0.00
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipment		0.47	3.88	15.9	0.02	0.11	_	0.11	0.11	_	0.11	_	2,678	2,678	0.11	0.02	_	2,687
Dust From Material Movement	_	_	-	_	_	_	0.53	0.53	_	0.06	0.06	_	-	_	_	_	_	_
Onsite truck	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	0.00
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipment		0.05	0.45	1.83	< 0.005	0.01	_	0.01	0.01	_	0.01	-	308	308	0.01	< 0.005	_	309
Dust From Material Movement	_	_			_	_	0.06	0.06	_	0.01	0.01	_	-	_	_	_	_	_
Onsite truck	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	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_		_	_	_	_
Off-Road Equipment		0.01	0.08	0.33	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	-	51.0	51.0	< 0.005	< 0.005	-	51.2
Dust From Material Movement		_		_	_	_	0.01	0.01	_	< 0.005	< 0.005	_	_	_	_	_	_	_
Onsite truck	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	0.00

Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	<u> </u>	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_		_	_	_	_	_	_	_	
Worker	0.07	0.06	0.04	0.78	0.00	0.00	0.13	0.13	0.00	0.03	0.03	_	139	139	0.01	0.01	0.52	141
Vendor	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	0.00
Hauling	0.14	0.08	4.02	0.96	0.02	0.06	0.89	0.95	0.06	0.24	0.31	_	3,361	3,361	0.07	0.52	8.14	3,526
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.06	0.06	0.06	0.62	0.00	0.00	0.13	0.13	0.00	0.03	0.03	_	125	125	< 0.005	0.01	0.01	127
Vendor	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	0.00
Hauling	0.13	0.05	4.30	0.98	0.02	0.06	0.89	0.95	0.06	0.24	0.31	_	3,363	3,363	0.07	0.52	0.21	3,521
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.01	0.01	0.01	0.07	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	_	14.8	14.8	< 0.005	< 0.005	0.03	15.0
Vendor	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	0.00
Hauling	0.02	0.01	0.48	0.11	< 0.005	0.01	0.10	0.11	0.01	0.03	0.04	_	387	387	0.01	0.06	0.40	405
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	_	2.45	2.45	< 0.005	< 0.005	< 0.005	2.48
Vendor	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	0.00
Hauling	< 0.005	< 0.005	0.09	0.02	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	_	64.1	64.1	< 0.005	0.01	0.07	67.1

3.4. Phase 1 - Site Finishing (2025) - Mitigated

Location	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

Off-Road Equipmen		0.47	3.88	15.9	0.02	0.11	_	0.11	0.11	_	0.11	_	2,678	2,678	0.11	0.02	_	2,687
Dust From Material Movemen	<u>—</u>	_	_	_	_	_	0.21	0.21	_	0.02	0.02	_	_	_	-	_	_	_
Onsite truck	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	0.00
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.47	3.88	15.9	0.02	0.11	_	0.11	0.11	_	0.11	_	2,678	2,678	0.11	0.02	_	2,687
Dust From Material Movemen		-	-	_	_	-	0.21	0.21	_	0.02	0.02	-	_	-	-	_	_	-
Onsite truck	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	0.00
Average Daily	_	-	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.05	0.45	1.83	< 0.005	0.01	_	0.01	0.01	_	0.01	_	308	308	0.01	< 0.005	_	309
Dust From Material Movemen	<u></u>	_	-	_	_	_	0.02	0.02	_	< 0.005	< 0.005	_	_	_	-	_	_	_
Onsite truck	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	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.01	0.08	0.33	< 0.005	< 0.005	_	< 0.005	< 0.005	-	< 0.005	-	51.0	51.0	< 0.005	< 0.005	_	51.2
Dust From Material Movemen			-	_	_	_	< 0.005	< 0.005	_	< 0.005	< 0.005	_	_		-	_	_	_

Onsite truck	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	0.00
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	-	_	_	_	_	_	_	_
Worker	0.07	0.06	0.04	0.78	0.00	0.00	0.13	0.13	0.00	0.03	0.03	_	139	139	0.01	0.01	0.52	141
Vendor	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	0.00
Hauling	0.14	0.08	4.02	0.96	0.02	0.06	0.89	0.95	0.06	0.24	0.31	_	3,361	3,361	0.07	0.52	8.14	3,526
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.06	0.06	0.06	0.62	0.00	0.00	0.13	0.13	0.00	0.03	0.03	_	125	125	< 0.005	0.01	0.01	127
Vendor	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	0.00
Hauling	0.13	0.05	4.30	0.98	0.02	0.06	0.89	0.95	0.06	0.24	0.31	_	3,363	3,363	0.07	0.52	0.21	3,521
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.01	0.01	0.01	0.07	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	_	14.8	14.8	< 0.005	< 0.005	0.03	15.0
Vendor	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	0.00
Hauling	0.02	0.01	0.48	0.11	< 0.005	0.01	0.10	0.11	0.01	0.03	0.04	_	387	387	0.01	0.06	0.40	405
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	_	2.45	2.45	< 0.005	< 0.005	< 0.005	2.48
Vendor	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	0.00
Hauling	< 0.005	< 0.005	0.09	0.02	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	_	64.1	64.1	< 0.005	0.01	0.07	67.1

3.5. Phase 2 - Site Finishing (2026) - Unmitigated

Location	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.46	3.84	15.9	0.02	0.11	_	0.11	0.10	_	0.10	_	2,679	2,679	0.11	0.02	_	2,688
Dust From Material Movement	_	_	_	_	_	_	0.53	0.53	_	0.06	0.06	_	-	_	-	_	_	_
Onsite truck	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	0.00
Daily, Winter (Max)	_		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.07	0.58	2.39	< 0.005	0.02	_	0.02	0.02	_	0.02	_	404	404	0.02	< 0.005	_	405
Dust From Material Movement	_	_	_	_	_	_	0.08	0.08	_	0.01	0.01	_	-	_	-	_	_	_
Onsite truck	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	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.01	0.11	0.44	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	66.8	66.8	< 0.005	< 0.005	_	67.1
Dust From Material Movement	_	_	_	-	_	_	0.01	0.01	_	< 0.005	< 0.005	_	-	_	-	_	_	_
Onsite truck	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	0.00
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.06	0.06	0.04	0.72	0.00	0.00	0.13	0.13	0.00	0.03	0.03	_	136	136	< 0.005	< 0.005	0.47	138
Vendor	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	0.00
Hauling	0.21	0.09	5.95	1.43	0.03	0.10	1.35	1.45	0.10	0.37	0.47	_	5,009	5,009	0.08	0.79	11.7	5,258
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.01	0.01	0.01	0.09	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	_	19.0	19.0	< 0.005	< 0.005	0.03	19.2
Vendor	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	0.00
Hauling	0.03	0.01	0.93	0.22	0.01	0.01	0.20	0.22	0.01	0.06	0.07	_	755	755	0.01	0.12	0.76	792
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	_	3.14	3.14	< 0.005	< 0.005	0.01	3.19
Vendor	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	0.00
Hauling	0.01	< 0.005	0.17	0.04	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	_	125	125	< 0.005	0.02	0.13	131

3.6. Phase 2 - Site Finishing (2026) - Mitigated

Location	TOG	ROG		СО	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.46	3.84	15.9	0.02	0.11	_	0.11	0.10	_	0.10	_	2,679	2,679	0.11	0.02	_	2,688

Dust From Material Movemen	<u> </u>	_	_	_	_	_	0.21	0.21	_	0.02	0.02	_	-	_	_	_	_	_
Onsite truck	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	0.00
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.07	0.58	2.39	< 0.005	0.02	_	0.02	0.02	_	0.02	_	404	404	0.02	< 0.005	_	405
Dust From Material Movemen	_	_	_	_	_	_	0.03	0.03	_	< 0.005	< 0.005	_	-	_	_	_	_	_
Onsite truck	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	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.01	0.11	0.44	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	66.8	66.8	< 0.005	< 0.005	_	67.1
Dust From Material Movemen		_	-	_	_	_	0.01	0.01	_	< 0.005	< 0.005	_	-	_	_	_		_
Onsite truck	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	0.00
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	-	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.06	0.06	0.04	0.72	0.00	0.00	0.13	0.13	0.00	0.03	0.03	_	136	136	< 0.005	< 0.005	0.47	138
Vendor	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	0.00
Hauling	0.21	0.09	5.95	1.43	0.03	0.10	1.35	1.45	0.10	0.37	0.47	_	5,009	5,009	0.08	0.79	11.7	5,258

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Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.01	0.01	0.01	0.09	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	_	19.0	19.0	< 0.005	< 0.005	0.03	19.2
Vendor	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	0.00
Hauling	0.03	0.01	0.93	0.22	0.01	0.01	0.20	0.22	0.01	0.06	0.07	_	755	755	0.01	0.12	0.76	792
Annual	_	_	_		_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	_	3.14	3.14	< 0.005	< 0.005	0.01	3.19
Vendor	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	0.00
Hauling	0.01	< 0.005	0.17	0.04	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	<u> </u>	125	125	< 0.005	0.02	0.13	131

3.7. Grading (2024) - Unmitigated

Location		ROG	NOx	СО	SO2	PM10E		PM10T	PM2.5E			BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		2.08	11.4	103	0.19	0.43	_	0.43	0.43	_	0.43	_	20,137	20,137	0.82	0.16	_	20,206
Dust From Material Movemen			_	_	_	_	13.5	13.5	_	4.12	4.12	_	_	_	_	_	_	_
Onsite truck	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	0.00
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

Off-Road Equipmen		2.08	11.4	103	0.19	0.43	_	0.43	0.43	_	0.43	_	20,137	20,137	0.82	0.16	_	20,206
Dust From Material Movemen	<u> </u>	_	_	_	_	_	13.5	13.5	_	4.12	4.12	_	_	_	_	_	_	_
Onsite truck	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	0.00
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.71	3.92	35.4	0.06	0.15	_	0.15	0.15	_	0.15	_	6,896	6,896	0.28	0.06	_	6,920
Dust From Material Movemen		-	-	-	_	-	4.62	4.62	_	1.41	1.41	_	-	-	_	-	-	_
Onsite truck	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	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.13	0.72	6.46	0.01	0.03	_	0.03	0.03	_	0.03	-	1,142	1,142	0.05	0.01	_	1,146
Dust From Material Movemen		-	-	-	_	-	0.84	0.84	_	0.26	0.26	_	-	-	_	-	-	_
Onsite truck	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	0.00
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	-	-	-	_	-	_	_	_	_	_	_	_	_	_	_
Worker	0.23	0.21	0.14	2.56	0.00	0.00	0.38	0.38	0.00	0.09	0.09	_	425	425	0.02	0.02	1.70	432
Vendor	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	0.00
Hauling	0.17	0.10	5.28	1.25	0.03	0.08	1.13	1.21	0.08	0.31	0.39	_	4,355	4,355	0.09	0.69	10.5	4,573

Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.20	0.18	0.18	2.02	0.00	0.00	0.38	0.38	0.00	0.09	0.09	_	384	384	0.02	0.02	0.04	390
Vendor	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	0.00
Hauling	0.17	0.10	5.63	1.25	0.03	0.08	1.13	1.21	0.08	0.31	0.39	_	4,357	4,357	0.09	0.69	0.27	4,565
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.07	0.06	0.06	0.71	0.00	0.00	0.13	0.13	0.00	0.03	0.03	-	135	135	0.01	0.01	0.25	137
Vendor	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	0.00
Hauling	0.06	0.03	1.89	0.43	0.01	0.03	0.39	0.41	0.03	0.11	0.13	_	1,492	1,492	0.03	0.24	1.54	1,564
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.01	0.01	0.01	0.13	0.00	0.00	0.02	0.02	0.00	0.01	0.01	_	22.3	22.3	< 0.005	< 0.005	0.04	22.7
Vendor	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	0.00
Hauling	0.01	0.01	0.34	0.08	< 0.005	0.01	0.07	0.08	0.01	0.02	0.02	_	247	247	0.01	0.04	0.26	259

3.8. Grading (2024) - Mitigated

Location	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		2.08	11.4	103	0.19	0.43	_	0.43	0.43	_	0.43	_	20,137	20,137	0.82	0.16	_	20,206
Dust From Material Movemen	_	_	_	_	_	_	5.26	5.26	_	1.61	1.61	_	_	_	_	_	_	_
Onsite truck	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	0.00

Dailu																		
Daily, Winter (Max)	_		_				_	_		_								
Off-Road Equipmen		2.08	11.4	103	0.19	0.43	_	0.43	0.43	_	0.43	_	20,137	20,137	0.82	0.16	_	20,206
Dust From Material Movemen	<u>—</u>	_	_	_	_	_	5.26	5.26	_	1.61	1.61	_	_	_	_	_	_	_
Onsite truck	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	0.00
Average Daily	_	_	_	_	_	_	_	_	_	_	_	-	_	_	_	_	_	_
Off-Road Equipmen		0.71	3.92	35.4	0.06	0.15	-	0.15	0.15	_	0.15	-	6,896	6,896	0.28	0.06	_	6,920
Dust From Material Movemen	_	-	-	_	_	-	1.80	1.80	-	0.55	0.55	_	_	-	_	-	-	-
Onsite truck	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	0.00
Annual	_	_	_	_	_	_	_	<u> </u>	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.13	0.72	6.46	0.01	0.03	_	0.03	0.03	_	0.03	-	1,142	1,142	0.05	0.01	_	1,146
Dust From Material Movemen				_	_	_	0.33	0.33		0.10	0.10	_	_	_		_	_	_
Onsite truck	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	0.00
Offsite	_	_	_	_	_	_	_	-	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	-	_	-	_	_	_	_	-	_	_	_	_	_	-	_	_
Worker	0.23	0.21	0.14	2.56	0.00	0.00	0.38	0.38	0.00	0.09	0.09	_	425	425	0.02	0.02	1.70	432

Vendor	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	0.00
Hauling	0.17	0.10	5.28	1.25	0.03	0.08	1.13	1.21	0.08	0.31	0.39	_	4,355	4,355	0.09	0.69	10.5	4,573
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.20	0.18	0.18	2.02	0.00	0.00	0.38	0.38	0.00	0.09	0.09	_	384	384	0.02	0.02	0.04	390
Vendor	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	0.00
Hauling	0.17	0.10	5.63	1.25	0.03	0.08	1.13	1.21	0.08	0.31	0.39	_	4,357	4,357	0.09	0.69	0.27	4,565
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.07	0.06	0.06	0.71	0.00	0.00	0.13	0.13	0.00	0.03	0.03	_	135	135	0.01	0.01	0.25	137
Vendor	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	0.00
Hauling	0.06	0.03	1.89	0.43	0.01	0.03	0.39	0.41	0.03	0.11	0.13	_	1,492	1,492	0.03	0.24	1.54	1,564
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.01	0.01	0.01	0.13	0.00	0.00	0.02	0.02	0.00	0.01	0.01	-	22.3	22.3	< 0.005	< 0.005	0.04	22.7
Vendor	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	0.00
Hauling	0.01	0.01	0.34	0.08	< 0.005	0.01	0.07	0.08	0.01	0.02	0.02	_	247	247	0.01	0.04	0.26	259

3.9. Off-site Grading (2024) - Unmitigated

Location	TOG	ROG	NOx	СО	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		1.18	8.15	51.6	0.09	0.26	_	0.26	0.25	_	0.25	_	9,523	9,523	0.39	0.08	_	9,556

Dust From Material Movemen	<u> </u>	_	_	_	_	_	8.14	8.14	_	3.54	3.54	_		_	_		_	_
Onsite truck	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	0.00
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.02	0.15	0.97	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	179	179	0.01	< 0.005	_	180
Dust From Material Movemen	 :	_	_	_	_	_	0.15	0.15	_	0.07	0.07	_	_	_	_	_	_	_
Onsite truck	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	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		< 0.005	0.03	0.18	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	29.6	29.6	< 0.005	< 0.005	_	29.7
Dust From Material Movemen	<u> </u>	_	_	_	_	_	0.03	0.03	_	0.01	0.01	_	_	_	_	_	_	_
Onsite truck	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	0.00
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.16	0.14	0.14	1.57	0.00	0.00	0.29	0.29	0.00	0.07	0.07	_	299	299	0.02	0.01	0.03	303
Vendor	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	0.00
Hauling	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	0.00

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Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	_	5.76	5.76	< 0.005	< 0.005	0.01	5.84
Vendor	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	0.00
Hauling	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	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	_	0.95	0.95	< 0.005	< 0.005	< 0.005	0.97
Vendor	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	0.00
Hauling	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	0.00

3.10. Off-site Grading (2024) - Mitigated

Location	TOG	ROG	NOx	СО	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		1.18	8.15	51.6	0.09	0.26	_	0.26	0.25	_	0.25	_	9,523	9,523	0.39	0.08	_	9,556
Dust From Material Movemen [:]	<u> </u>	_	_	_	_	_	3.18	3.18	_	1.38	1.38	_	_	_	_	_	_	_
Onsite truck	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	0.00
Average Daily	_	_	_	_		_	_	_	_	_	_	_		_	_	_	_	_
Off-Road Equipmen		0.02	0.15	0.97	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	179	179	0.01	< 0.005	_	180

Dust	_		_	_			0.06	0.06	_	0.03	0.03	_		_	_	_		
From Material Movemen	:						0.00	0.00		0.00	0.00							
Onsite ruck	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	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		< 0.005	0.03	0.18	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	29.6	29.6	< 0.005	< 0.005	_	29.7
Dust From Material Movemen	 :		_		_		0.01	0.01		< 0.005	< 0.005		_	_	_			_
Onsite truck	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	0.00
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	-	_	_	_	_	_	_	_	-	_	_	_	_	_	_
Worker	0.16	0.14	0.14	1.57	0.00	0.00	0.29	0.29	0.00	0.07	0.07	_	299	299	0.02	0.01	0.03	303
Vendor	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	0.00
Hauling	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	0.00
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	_	5.76	5.76	< 0.005	< 0.005	0.01	5.84
Vendor	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	0.00
Hauling	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	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	_	0.95	0.95	< 0.005	< 0.005	< 0.005	0.97
Vendor	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	0.00

Hauling	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	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	0.00	0.00

3.11. Off-site Grading (2025) - Unmitigated

	TOG	ROG	NOx	co	SO2	PM10E	PM10D	PM10T		PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
							TWITOD	I WITOT	I WIZ.JL	I WIZ.SD						INZO	IX	0026
Onsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		1.17	8.11	51.6	0.09	0.25	_	0.25	0.24	_	0.24	_	9,530	9,530	0.39	0.08	_	9,563
Dust From Material Movemen	<u> </u>	_	_	_	_	_	8.14	8.14	_	3.54	3.54	_	_	_	_	_	_	_
Onsite truck	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	0.00
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		1.17	8.11	51.6	0.09	0.25	_	0.25	0.24	_	0.24	_	9,530	9,530	0.39	0.08	_	9,563
Dust From Material Movemen		_	_	_	_	_	8.14	8.14	_	3.54	3.54	_	_	_	_	_	_	_
Onsite truck	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	0.00
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	-	_	_	_	_
Off-Road Equipmen		0.96	6.65	42.3	0.07	0.20	-	0.20	0.20	_	0.20	_	7,811	7,811	0.32	0.06	_	7,837

Dust From Material Movemen	_	_	-	-	-	-	6.67	6.67	-	2.90	2.90		_	_	_	_		_
Onsite truck	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	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.17	1.21	7.71	0.01	0.04	_	0.04	0.04	_	0.04	_	1,293	1,293	0.05	0.01	-	1,298
Dust From Material Movemen		_	_	_	_	_	1.22	1.22	_	0.53	0.53	_	_	_	_	_	_	_
Onsite truck	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	0.00
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	-	_	-	_	_	_	_
Worker	0.16	0.15	0.10	1.83	0.00	0.00	0.29	0.29	0.00	0.07	0.07	_	324	324	0.02	0.01	1.20	329
Vendor	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	0.00
Hauling	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	0.00
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.15	0.13	0.13	1.45	0.00	0.00	0.29	0.29	0.00	0.07	0.07	_	293	293	0.01	0.01	0.03	296
Vendor	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	0.00
Hauling	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	0.00
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.12	0.11	0.09	1.22	0.00	0.00	0.24	0.24	0.00	0.06	0.06	_	246	246	0.01	0.01	0.43	249
Vendor	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	0.00
Hauling	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	0.00

Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	<u> </u>	_	_	_
Worker	0.02	0.02	0.02	0.22	0.00	0.00	0.04	0.04	0.00	0.01	0.01	_	40.7	40.7	< 0.005	< 0.005	0.07	41.3
Vendor	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	0.00
Hauling	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	0.00

3.12. Off-site Grading (2025) - Mitigated

Location	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		1.17	8.11	51.6	0.09	0.25	_	0.25	0.24	_	0.24	_	9,530	9,530	0.39	0.08	_	9,563
Dust From Material Movemen	<u> </u>	_	_	_	_	_	3.18	3.18	_	1.38	1.38		_	_	_	_	_	_
Onsite truck	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	0.00
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		1.17	8.11	51.6	0.09	0.25	_	0.25	0.24	_	0.24	_	9,530	9,530	0.39	0.08	_	9,563
Dust From Material Movemen	_	_	_	_	_	_	3.18	3.18	_	1.38	1.38	_	_	_	_	_	_	_
Onsite truck	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	0.00
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

Off-Road Equipmen		0.96	6.65	42.3	0.07	0.20	_	0.20	0.20	_	0.20	_	7,811	7,811	0.32	0.06	_	7,837
Dust From Material Movemen		_	-	_	_	_	2.60	2.60	_	1.13	1.13	_	_	_	_	-	_	_
Onsite truck	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	0.00
Annual	_	_	_	_	_	_	_		_	_	_	<u> </u>		_	_	<u> </u>	_	_
Off-Road Equipmen		0.17	1.21	7.71	0.01	0.04	_	0.04	0.04	_	0.04	_	1,293	1,293	0.05	0.01	_	1,298
Dust From Material Movemen	_	_		_	_	-	0.48	0.48	_	0.21	0.21	_	_	_	_		_	_
Onsite truck	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	0.00
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	-	_	-	_	_	_	_	_	_
Worker	0.16	0.15	0.10	1.83	0.00	0.00	0.29	0.29	0.00	0.07	0.07	_	324	324	0.02	0.01	1.20	329
Vendor	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	0.00
Hauling	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	0.00
Daily, Winter (Max)	_	_	-	_	_	-	-	-	_	_	_	_	_	_	_	-	_	_
Worker	0.15	0.13	0.13	1.45	0.00	0.00	0.29	0.29	0.00	0.07	0.07	_	293	293	0.01	0.01	0.03	296
Vendor	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	0.00
Hauling	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	0.00
Average Daily	_	_	_	_	_	_	_	_	_	_	_	-	-	_	_	_	_	_
Worker	0.12	0.11	0.09	1.22	0.00	0.00	0.24	0.24	0.00	0.06	0.06	_	246	246	0.01	0.01	0.43	249

Vendor	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	0.00
Hauling	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	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.02	0.02	0.02	0.22	0.00	0.00	0.04	0.04	0.00	0.01	0.01	_	40.7	40.7	< 0.005	< 0.005	0.07	41.3
Vendor	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	0.00
Hauling	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	0.00

3.13. Phase 1 - Building Construction (2024) - Unmitigated

Location	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		1.15	11.6	26.0	0.04	0.27	_	0.27	0.25	_	0.25	_	4,347	4,347	0.18	0.04	_	4,362
Onsite truck	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	0.00
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.02	0.25	0.55	< 0.005	0.01	_	0.01	0.01	_	0.01	_	91.9	91.9	< 0.005	< 0.005	_	92.2
Onsite truck	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	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		< 0.005	0.04	0.10	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	15.2	15.2	< 0.005	< 0.005	_	15.3

Onsite truck	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	0.00
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	
Worker	1.01	0.92	0.93	10.3	0.00	0.00	1.92	1.92	0.00	0.45	0.45	_	1,949	1,949	0.12	0.08	0.22	1,976
Vendor	0.14	0.09	3.49	1.15	0.02	0.04	0.68	0.72	0.04	0.19	0.22	_	2,566	2,566	0.05	0.39	0.18	2,684
Hauling	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	0.00
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.02	0.02	0.02	0.22	0.00	0.00	0.04	0.04	0.00	0.01	0.01	_	42.2	42.2	< 0.005	< 0.005	0.08	42.9
Vendor	< 0.005	< 0.005	0.07	0.02	< 0.005	< 0.005	0.01	0.02	< 0.005	< 0.005	< 0.005	_	54.2	54.2	< 0.005	0.01	0.06	56.8
Hauling	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	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	_	6.99	6.99	< 0.005	< 0.005	0.01	7.10
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	_	8.98	8.98	< 0.005	< 0.005	0.01	9.40
Hauling	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	0.00

3.14. Phase 1 - Building Construction (2024) - Mitigated

Location	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

Daily, Winter (Max)		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		1.15	11.6	26.0	0.04	0.27	-	0.27	0.25	_	0.25	-	4,347	4,347	0.18	0.04	_	4,362
Onsite truck	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	0.00
Average Daily	_	_	_	_	_	_	_	_	_	_	_	-	_	_	_	_	_	_
Off-Road Equipmen		0.02	0.25	0.55	< 0.005	0.01	_	0.01	0.01	_	0.01	-	91.9	91.9	< 0.005	< 0.005	_	92.2
Onsite truck	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	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		< 0.005	0.04	0.10	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	15.2	15.2	< 0.005	< 0.005	_	15.3
Onsite truck	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	0.00
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	1.01	0.92	0.93	10.3	0.00	0.00	1.92	1.92	0.00	0.45	0.45	_	1,949	1,949	0.12	0.08	0.22	1,976
Vendor	0.14	0.09	3.49	1.15	0.02	0.04	0.68	0.72	0.04	0.19	0.22	_	2,566	2,566	0.05	0.39	0.18	2,684
Hauling	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	0.00
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.02	0.02	0.02	0.22	0.00	0.00	0.04	0.04	0.00	0.01	0.01	_	42.2	42.2	< 0.005	< 0.005	0.08	42.9
Vendor	< 0.005	< 0.005	0.07	0.02	< 0.005	< 0.005	0.01	0.02	< 0.005	< 0.005	< 0.005	_	54.2	54.2	< 0.005	0.01	0.06	56.8
Hauling	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	0.00

Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	_	6.99	6.99	< 0.005	< 0.005	0.01	7.10
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	_	8.98	8.98	< 0.005	< 0.005	0.01	9.40
Hauling	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	0.00

3.15. Phase 1 - Building Construction (2025) - Unmitigated

Location	TOG	ROG	NOx	СО	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		1.13	11.6	26.0	0.04	0.26	_	0.26	0.24	_	0.24	_	4,347	4,347	0.18	0.04	_	4,362
Onsite truck	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	0.00
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	-
Off-Road Equipmen		1.13	11.6	26.0	0.04	0.26	_	0.26	0.24	_	0.24	_	4,347	4,347	0.18	0.04	_	4,362
Onsite truck	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	0.00
Average Daily	_	_	_	-	_	_	_	_	_	_	-	_	_	_	_	-	_	_
Off-Road Equipmen		0.96	9.85	22.1	0.04	0.22	_	0.22	0.21	_	0.21	_	3,706	3,706	0.15	0.03	_	3,719
Onsite truck	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	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.18	1.80	4.04	0.01	0.04	_	0.04	0.04	_	0.04	_	614	614	0.02	< 0.005	_	616

Onsite truck	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	0.00
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	-	_	_	_	_	_	_	_	_	_	_	-	_	-	_	_
Worker	1.03	0.95	0.64	11.9	0.00	0.00	1.92	1.92	0.00	0.45	0.45	_	2,111	2,111	0.10	0.08	7.85	2,145
Vendor	0.13	0.08	3.13	1.07	0.02	0.04	0.68	0.72	0.04	0.19	0.22	_	2,521	2,521	0.05	0.37	6.92	2,641
Hauling	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	0.00
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.96	0.87	0.86	9.45	0.00	0.00	1.92	1.92	0.00	0.45	0.45	_	1,908	1,908	0.06	0.08	0.20	1,933
Vendor	0.13	0.07	3.34	1.09	0.02	0.04	0.68	0.72	0.04	0.19	0.22	_	2,523	2,523	0.05	0.37	0.18	2,636
Hauling	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	0.00
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.82	0.75	0.61	8.24	0.00	0.00	1.63	1.63	0.00	0.38	0.38	_	1,667	1,667	0.04	0.07	2.89	1,691
Vendor	0.11	0.07	2.78	0.92	0.02	0.03	0.58	0.61	0.03	0.16	0.19	_	2,150	2,150	0.04	0.32	2.55	2,248
Hauling	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	0.00
Annual	_	_	_	_	_	_	_	-	_	_	_	_	_	_	_	_	_	_
Worker	0.15	0.14	0.11	1.50	0.00	0.00	0.30	0.30	0.00	0.07	0.07	_	276	276	0.01	0.01	0.48	280
Vendor	0.02	0.01	0.51	0.17	< 0.005	0.01	0.11	0.11	0.01	0.03	0.03	_	356	356	0.01	0.05	0.42	372
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	<u> </u>	0.00	0.00	0.00	0.00	0.00	0.00

3.16. Phase 1 - Building Construction (2025) - Mitigated

Location	TOG	ROG	NOx	СО	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	-	_	_	_	_	_	_
Off-Road Equipmen		1.13	11.6	26.0	0.04	0.26	_	0.26	0.24	_	0.24	-	4,347	4,347	0.18	0.04	_	4,362
Onsite truck	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	0.00
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		1.13	11.6	26.0	0.04	0.26	_	0.26	0.24	_	0.24	_	4,347	4,347	0.18	0.04	_	4,362
Onsite truck	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	0.00
Average Daily	_	_	_	_	_	_	-	-	_	_	-	-	_	_	_	_	-	_
Off-Road Equipmen		0.96	9.85	22.1	0.04	0.22	_	0.22	0.21	_	0.21	-	3,706	3,706	0.15	0.03	_	3,719
Onsite truck	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	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.18	1.80	4.04	0.01	0.04	_	0.04	0.04	-	0.04	-	614	614	0.02	< 0.005	-	616
Onsite truck	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	0.00
Offsite	_	_	_	-	_	_	_	_	_	_	-	_	_	_	_	_	_	_
Daily, Summer (Max)	_	-	_	_	_	-	-	-	_	_	-	_	_	_	_	-	-	-
Worker	1.03	0.95	0.64	11.9	0.00	0.00	1.92	1.92	0.00	0.45	0.45	_	2,111	2,111	0.10	0.08	7.85	2,145
Vendor	0.13	0.08	3.13	1.07	0.02	0.04	0.68	0.72	0.04	0.19	0.22	_	2,521	2,521	0.05	0.37	6.92	2,641
Hauling	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	0.00

Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	-	_	_	_	_	_	-
Worker	0.96	0.87	0.86	9.45	0.00	0.00	1.92	1.92	0.00	0.45	0.45	_	1,908	1,908	0.06	0.08	0.20	1,933
Vendor	0.13	0.07	3.34	1.09	0.02	0.04	0.68	0.72	0.04	0.19	0.22	-	2,523	2,523	0.05	0.37	0.18	2,636
Hauling	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	0.00
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.82	0.75	0.61	8.24	0.00	0.00	1.63	1.63	0.00	0.38	0.38	-	1,667	1,667	0.04	0.07	2.89	1,691
Vendor	0.11	0.07	2.78	0.92	0.02	0.03	0.58	0.61	0.03	0.16	0.19	-	2,150	2,150	0.04	0.32	2.55	2,248
Hauling	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	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.15	0.14	0.11	1.50	0.00	0.00	0.30	0.30	0.00	0.07	0.07	_	276	276	0.01	0.01	0.48	280
Vendor	0.02	0.01	0.51	0.17	< 0.005	0.01	0.11	0.11	0.01	0.03	0.03	-	356	356	0.01	0.05	0.42	372
Hauling	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	0.00

3.17. Phase 2 - Building Construction (2025) - Unmitigated

Location	TOG	ROG		со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.90	9.82	22.8	0.04	0.19	_	0.19	0.18	_	0.18	_	3,835	3,835	0.16	0.03	_	3,848
Onsite truck	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	0.00

Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.01	0.07	0.16	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	27.0	27.0	< 0.005	< 0.005	_	27.1
Onsite truck	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	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		< 0.005	0.01	0.03	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	4.47	4.47	< 0.005	< 0.005	_	4.49
Onsite truck	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	0.00
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	-	_	_	_	-	_	-	_	_	_
Worker	0.96	0.87	0.86	9.45	0.00	0.00	1.92	1.92	0.00	0.45	0.45	_	1,908	1,908	0.06	0.08	0.20	1,933
Vendor	0.13	0.07	3.34	1.09	0.02	0.04	0.68	0.72	0.04	0.19	0.22	_	2,523	2,523	0.05	0.37	0.18	2,636
Hauling	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	0.00
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	-
Worker	0.01	0.01	0.01	0.07	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	_	13.8	13.8	< 0.005	< 0.005	0.02	14.0
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	_	17.8	17.8	< 0.005	< 0.005	0.02	18.6
Hauling	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	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	-	_	_
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	_	2.28	2.28	< 0.005	< 0.005	< 0.005	2.31
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	_	2.94	2.94	< 0.005	< 0.005	< 0.005	3.08
Hauling	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	0.00

3.18. Phase 2 - Building Construction (2025) - Mitigated

Location	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	<u> </u>	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.90	9.82	22.8	0.04	0.19	_	0.19	0.18	_	0.18	_	3,835	3,835	0.16	0.03	_	3,848
Onsite truck	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	0.00
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.01	0.07	0.16	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	27.0	27.0	< 0.005	< 0.005	_	27.1
Onsite truck	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	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		< 0.005	0.01	0.03	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	4.47	4.47	< 0.005	< 0.005	_	4.49
Onsite truck	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	0.00
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_		_	_		_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

Worker	0.96	0.87	0.86	9.45	0.00	0.00	1.92	1.92	0.00	0.45	0.45	_	1,908	1,908	0.06	0.08	0.20	1,933
Vendor	0.13	0.07	3.34	1.09	0.02	0.04	0.68	0.72	0.04	0.19	0.22	_	2,523	2,523	0.05	0.37	0.18	2,636
Hauling	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	0.00
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.01	0.01	0.01	0.07	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	_	13.8	13.8	< 0.005	< 0.005	0.02	14.0
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	_	17.8	17.8	< 0.005	< 0.005	0.02	18.6
Hauling	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	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	_	2.28	2.28	< 0.005	< 0.005	< 0.005	2.31
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	_	2.94	2.94	< 0.005	< 0.005	< 0.005	3.08
Hauling	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	0.00

3.19. Phase 2 - Building Construction (2026) - Unmitigated

		(1.57 5.5.	,	<i>y</i> ,, <i>y</i> .		,	(,,										
Location	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	_	_	_	_	_	_	<u> </u>	_	_	_	<u> </u>	_		_	<u> </u>	_		_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.89	9.77	22.7	0.04	0.18	_	0.18	0.17	_	0.17	_	3,834	3,834	0.16	0.03	_	3,848
Onsite truck	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	0.00
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.89	9.77	22.7	0.04	0.18	_	0.18	0.17	_	0.17	_	3,834	3,834	0.16	0.03	_	3,848

Onsite truck	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	0.00
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.48	5.34	12.4	0.02	0.10	_	0.10	0.09	_	0.09	_	2,098	2,098	0.09	0.02	_	2,105
Onsite truck	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	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.09	0.98	2.27	< 0.005	0.02	_	0.02	0.02	_	0.02	_	347	347	0.01	< 0.005	_	349
Onsite truck	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	0.00
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	-	_	_	_	_	_	_	_	_	-	_	_	_	_	_	_
Worker	0.97	0.89	0.57	11.0	0.00	0.00	1.92	1.92	0.00	0.45	0.45	_	2,067	2,067	0.04	0.07	7.09	2,097
Vendor	0.13	0.08	3.00	1.01	0.02	0.04	0.68	0.72	0.04	0.19	0.22	_	2,476	2,476	0.05	0.37	6.08	2,594
Hauling	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	0.00
Daily, Winter (Max)	_	_	-	_	_	_	_	_	_	_	_	-	_	_	_	_	_	-
Worker	0.91	0.83	0.72	8.70	0.00	0.00	1.92	1.92	0.00	0.45	0.45	_	1,868	1,868	0.05	0.08	0.18	1,893
Vendor	0.13	0.07	3.19	1.04	0.02	0.04	0.68	0.72	0.04	0.19	0.22	_	2,478	2,478	0.05	0.37	0.16	2,590
Hauling	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	0.00
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.50	0.45	0.36	4.87	0.00	0.00	1.04	1.04	0.00	0.24	0.24	_	1,048	1,048	0.02	0.04	1.68	1,063
Vendor	0.07	0.04	1.71	0.56	0.01	0.02	0.37	0.39	0.02	0.10	0.12	_	1,355	1,355	0.03	0.20	1.44	1,418
Hauling	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	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

Worker	0.09	0.08	0.06	0.89	0.00	0.00	0.19	0.19	0.00	0.04	0.04	_	173	173	< 0.005	0.01	0.28	176
Vendor	0.01	0.01	0.31	0.10	< 0.005	< 0.005	0.07	0.07	< 0.005	0.02	0.02	_	224	224	< 0.005	0.03	0.24	235
Hauling	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	0.00

3.20. Phase 2 - Building Construction (2026) - Mitigated

Location	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.89	9.77	22.7	0.04	0.18	_	0.18	0.17	_	0.17	_	3,834	3,834	0.16	0.03	_	3,848
Onsite truck	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	0.00
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_		_	_	_	_	_	
Off-Road Equipmen		0.89	9.77	22.7	0.04	0.18	_	0.18	0.17	_	0.17	_	3,834	3,834	0.16	0.03	_	3,848
Onsite truck	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	0.00
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	-	_
Off-Road Equipmen		0.48	5.34	12.4	0.02	0.10	_	0.10	0.09	_	0.09	_	2,098	2,098	0.09	0.02	_	2,105
Onsite truck	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	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.09	0.98	2.27	< 0.005	0.02	_	0.02	0.02	_	0.02	_	347	347	0.01	< 0.005	_	349

Onsite truck	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	0.00
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	-	_	_	_	_	_	_	_	_	_	_	_	_		_	_	_	-
Worker	0.97	0.89	0.57	11.0	0.00	0.00	1.92	1.92	0.00	0.45	0.45	_	2,067	2,067	0.04	0.07	7.09	2,097
Vendor	0.13	0.08	3.00	1.01	0.02	0.04	0.68	0.72	0.04	0.19	0.22	-	2,476	2,476	0.05	0.37	6.08	2,594
Hauling	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	0.00
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.91	0.83	0.72	8.70	0.00	0.00	1.92	1.92	0.00	0.45	0.45	_	1,868	1,868	0.05	0.08	0.18	1,893
Vendor	0.13	0.07	3.19	1.04	0.02	0.04	0.68	0.72	0.04	0.19	0.22	_	2,478	2,478	0.05	0.37	0.16	2,590
Hauling	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	0.00
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.50	0.45	0.36	4.87	0.00	0.00	1.04	1.04	0.00	0.24	0.24	_	1,048	1,048	0.02	0.04	1.68	1,063
Vendor	0.07	0.04	1.71	0.56	0.01	0.02	0.37	0.39	0.02	0.10	0.12	_	1,355	1,355	0.03	0.20	1.44	1,418
Hauling	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	0.00
Annual	_	_	-	-	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.09	0.08	0.06	0.89	0.00	0.00	0.19	0.19	0.00	0.04	0.04	_	173	173	< 0.005	0.01	0.28	176
Vendor	0.01	0.01	0.31	0.10	< 0.005	< 0.005	0.07	0.07	< 0.005	0.02	0.02	_	224	224	< 0.005	0.03	0.24	235
Hauling	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	0.00

3.21. Off-site Paving (2025) - Unmitigated

Location	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

D-ili.																		
Daily, Summer (Max)										_								
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.39	2.38	10.6	0.01	0.10	_	0.10	0.10	_	0.10	_	1,511	1,511	0.06	0.01	_	1,517
Paving	_	3.44	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Onsite truck	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	0.00
Average Daily	_	_	_	_	_	_	_	_	_	-		_	_	_		-	_	_
Off-Road Equipmen		0.05	0.31	1.39	< 0.005	0.01	_	0.01	0.01	-	0.01	_	199	199	0.01	< 0.005	-	199
Paving	_	0.45	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Onsite truck	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	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.01	0.06	0.25	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	32.9	32.9	< 0.005	< 0.005	_	33.0
Paving	_	0.08	_	_	_	_	_	_	_	_	_	-	_	_	_	_	_	_
Onsite truck	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	0.00
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	-	_	_	_	_	_	_	_	-	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.06	0.06	0.06	0.62	0.00	0.00	0.13	0.13	0.00	0.03	0.03	_	125	125	< 0.005	0.01	0.01	127
Vendor	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	0.00

Hauling	0.03	0.01	1.07	0.25	0.01	0.02	0.22	0.24	0.02	0.06	0.08	_	841	841	0.02	0.13	0.05	880
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.01	0.01	0.01	0.08	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	_	16.9	16.9	< 0.005	< 0.005	0.03	17.1
Vendor	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	0.00
Hauling	< 0.005	< 0.005	0.14	0.03	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	_	111	111	< 0.005	0.02	0.12	116
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	_	2.80	2.80	< 0.005	< 0.005	< 0.005	2.84
Vendor	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	0.00
Hauling	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	_	18.3	18.3	< 0.005	< 0.005	0.02	19.2

3.22. Off-site Paving (2025) - Mitigated

	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T			PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_		_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmer		0.39	2.38	10.6	0.01	0.10	_	0.10	0.10	_	0.10	_	1,511	1,511	0.06	0.01	_	1,517
Paving	_	3.44	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Onsite truck	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	0.00
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmer		0.05	0.31	1.39	< 0.005	0.01	_	0.01	0.01	_	0.01	_	199	199	0.01	< 0.005	_	199

Paving	_	0.45	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Onsite truck	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	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.01	0.06	0.25	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	32.9	32.9	< 0.005	< 0.005	_	33.0
Paving	_	0.08	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Onsite truck	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	0.00
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.06	0.06	0.06	0.62	0.00	0.00	0.13	0.13	0.00	0.03	0.03	_	125	125	< 0.005	0.01	0.01	127
Vendor	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	0.00
Hauling	0.03	0.01	1.07	0.25	0.01	0.02	0.22	0.24	0.02	0.06	0.08	-	841	841	0.02	0.13	0.05	880
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.01	0.01	0.01	0.08	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	_	16.9	16.9	< 0.005	< 0.005	0.03	17.1
Vendor	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	0.00
Hauling	< 0.005	< 0.005	0.14	0.03	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	_	111	111	< 0.005	0.02	0.12	116
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	_	2.80	2.80	< 0.005	< 0.005	< 0.005	2.84
Vendor	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	0.00
Hauling	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	_	18.3	18.3	< 0.005	< 0.005	0.02	19.2

3.23. Off-site Improvements (2025) - Unmitigated

Location	TOG	ROG	NOx	СО	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.75	4.06	36.5	0.06	0.17	_	0.17	0.16	_	0.16	_	6,152	6,152	0.25	0.05	_	6,173
Onsite truck	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	0.00
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.75	4.06	36.5	0.06	0.17	_	0.17	0.16	_	0.16	_	6,152	6,152	0.25	0.05	_	6,173
Onsite truck	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	0.00
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.33	1.81	16.3	0.03	0.08	_	0.08	0.07	_	0.07	_	2,747	2,747	0.11	0.02	_	2,757
Onsite truck	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	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.06	0.33	2.97	< 0.005	0.01	_	0.01	0.01	_	0.01	_	455	455	0.02	< 0.005	_	456
Onsite truck	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	0.00
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	-	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.14	0.13	0.08	1.56	0.00	0.00	0.25	0.25	0.00	0.06	0.06	_	278	278	0.01	0.01	1.03	282

Vendor	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	0.00
Hauling	0.03	0.02	0.92	0.22	0.01	0.01	0.20	0.22	0.01	0.06	0.07	_	770	770	0.02	0.12	1.87	808
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.13	0.11	0.11	1.24	0.00	0.00	0.25	0.25	0.00	0.06	0.06	_	251	251	0.01	0.01	0.03	254
Vendor	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	0.00
Hauling	0.03	0.01	0.99	0.22	0.01	0.01	0.20	0.22	0.01	0.06	0.07	_	771	771	0.02	0.12	0.05	807
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.06	0.05	0.04	0.57	0.00	0.00	0.11	0.11	0.00	0.03	0.03	_	115	115	< 0.005	< 0.005	0.20	116
Vendor	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	0.00
Hauling	0.01	0.01	0.43	0.10	< 0.005	0.01	0.09	0.10	0.01	0.02	0.03	_	344	344	0.01	0.05	0.36	361
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.01	0.01	0.01	0.10	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	_	19.0	19.0	< 0.005	< 0.005	0.03	19.3
Vendor	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	0.00
Hauling	< 0.005	< 0.005	0.08	0.02	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	_	57.0	57.0	< 0.005	0.01	0.06	59.7

3.24. Off-site Improvements (2025) - Mitigated

Location	TOG	ROG	NOx	СО	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.75	4.06	36.5	0.06	0.17	_	0.17	0.16	_	0.16	_	6,152	6,152	0.25	0.05	_	6,173
Onsite truck	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	0.00

Daily, Winter (Max)		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	-
Off-Road Equipmen		0.75	4.06	36.5	0.06	0.17	_	0.17	0.16	_	0.16	_	6,152	6,152	0.25	0.05	-	6,173
Onsite truck	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	0.00
Average Daily	_	_	_	_	_	_	_	_	_	_	_	-	_	_	-	_	_	_
Off-Road Equipmen		0.33	1.81	16.3	0.03	0.08	_	0.08	0.07	_	0.07	-	2,747	2,747	0.11	0.02	_	2,757
Onsite truck	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	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.06	0.33	2.97	< 0.005	0.01	_	0.01	0.01	_	0.01	_	455	455	0.02	< 0.005	-	456
Onsite truck	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	0.00
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	-	_	_	-	_	_
Worker	0.14	0.13	0.08	1.56	0.00	0.00	0.25	0.25	0.00	0.06	0.06	_	278	278	0.01	0.01	1.03	282
Vendor	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	0.00
Hauling	0.03	0.02	0.92	0.22	0.01	0.01	0.20	0.22	0.01	0.06	0.07	_	770	770	0.02	0.12	1.87	808
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.13	0.11	0.11	1.24	0.00	0.00	0.25	0.25	0.00	0.06	0.06	_	251	251	0.01	0.01	0.03	254
Vendor	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	0.00
Hauling	0.03	0.01	0.99	0.22	0.01	0.01	0.20	0.22	0.01	0.06	0.07	_	771	771	0.02	0.12	0.05	807
Average Daily		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

Worker	0.06	0.05	0.04	0.57	0.00	0.00	0.11	0.11	0.00	0.03	0.03	_	115	115	< 0.005	< 0.005	0.20	116
Vendor	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	0.00
Hauling	0.01	0.01	0.43	0.10	< 0.005	0.01	0.09	0.10	0.01	0.02	0.03	_	344	344	0.01	0.05	0.36	361
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.01	0.01	0.01	0.10	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	_	19.0	19.0	< 0.005	< 0.005	0.03	19.3
Vendor	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	0.00
Hauling	< 0.005	< 0.005	0.08	0.02	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	_	57.0	57.0	< 0.005	0.01	0.06	59.7

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

Land Use	TOG	ROG	NOx	СО	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unrefrige rated Warehou se-No Rail	5.88	4.80	37.1	65.4	0.39	0.59	19.5	20.1	0.56	5.07	5.63	_	41,396	41,396	0.93	4.83	114	42,972
Other Asphalt Surfaces	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	0.00
Total	5.88	4.80	37.1	65.4	0.39	0.59	19.5	20.1	0.56	5.07	5.63	_	41,396	41,396	0.93	4.83	114	42,972
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

Unrefrige rated	5.59	4.51	40.1	54.5	0.38	0.59	19.5	20.1	0.56	5.07	5.63	_	40,307	40,307	0.96	4.88	2.96	41,787
Other Asphalt Surfaces	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	0.00
Total	5.59	4.51	40.1	54.5	0.38	0.59	19.5	20.1	0.56	5.07	5.63		40,307	40,307	0.96	4.88	2.96	41,787
Annual	_	_	_	-	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unrefrige rated Warehou se-No Rail	1.02	0.83	7.13	10.2	0.07	0.11	3.55	3.66	0.10	0.92	1.02	_	6,715	6,715	0.16	0.80	8.14	6,966
Other Asphalt Surfaces	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	0.00
Total	1.02	0.83	7.13	10.2	0.07	0.11	3.55	3.66	0.10	0.92	1.02	_	6,715	6,715	0.16	0.80	8.14	6,966

4.1.2. Mitigated

Land Use	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unrefrige rated Warehou se-No Rail	5.88	4.80	37.1	65.4	0.39	0.59	19.5	20.1	0.56	5.07	5.63	_	41,396	41,396	0.93	4.83	114	42,972
Other Asphalt Surfaces	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	0.00
Total	5.88	4.80	37.1	65.4	0.39	0.59	19.5	20.1	0.56	5.07	5.63	_	41,396	41,396	0.93	4.83	114	42,972

Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_		_	_	_		_	_	_
Unrefrige rated Warehou se-No Rail	5.59	4.51	40.1	54.5	0.38	0.59	19.5	20.1	0.56	5.07	5.63	_	40,307	40,307	0.96	4.88	2.96	41,787
Other Asphalt Surfaces	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	0.00
Total	5.59	4.51	40.1	54.5	0.38	0.59	19.5	20.1	0.56	5.07	5.63	_	40,307	40,307	0.96	4.88	2.96	41,787
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unrefrige rated Warehou se-No Rail	1.02	0.83	7.13	10.2	0.07	0.11	3.55	3.66	0.10	0.92	1.02	_	6,715	6,715	0.16	0.80	8.14	6,966
Other Asphalt Surfaces	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	0.00
Total	1.02	0.83	7.13	10.2	0.07	0.11	3.55	3.66	0.10	0.92	1.02	_	6,715	6,715	0.16	0.80	8.14	6,966

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

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Land Use	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily,	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Summer																		
(Max)																		

Unrefrige rated Warehou se-No	_	_	_	_	_	_	_	_	_	_	_	_	3,168	3,168	0.51	0.06	_	3,200
Other Asphalt Surfaces	_	_	_	_	_	_	_	_	_	_	_	_	0.00	0.00	0.00	0.00	_	0.00
Total	_	_	_	_	_	_	_	_	_	_	_	_	3,168	3,168	0.51	0.06	_	3,200
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unrefrige rated Warehou se-No Rail	_	-	_	-	-	_	_	_	_	_	_	_	3,168	3,168	0.51	0.06	_	3,200
Other Asphalt Surfaces	_	_	-	_	_	_	_	_	_	_	_	_	0.00	0.00	0.00	0.00	_	0.00
Total	_	_	_	_	_	_	_	_	_	_	_	_	3,168	3,168	0.51	0.06	_	3,200
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unrefrige rated Warehou se-No Rail	_	_	_	_	_	_	_	_	_	_	_	_	525	525	0.08	0.01	_	530
Other Asphalt Surfaces	_	_	_	_	_	_	_	_	_	_	_	_	0.00	0.00	0.00	0.00	_	0.00
Total	_	_	<u> </u>	_	_	_	_	_	_	_	_	_	525	525	0.08	0.01	_	530

4.2.2. Electricity Emissions By Land Use - Mitigated

		(, 5.5.	,	<i>y</i> ,, <i>y</i> .		,		,,	J. J. J.	, ,	J							
Land	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Use																		

Daily, Summer (Max)		_	_	_	_					_	_	_	_	_	_	_		_
Unrefrige rated Warehou se-No Rail	_	_	_	_	_	_	_	_	_	_	_	_	409	409	0.07	0.01	_	413
Other Asphalt Surfaces	_	_	_	_	_	_	_	_	_	_	_	_	0.00	0.00	0.00	0.00	_	0.00
Total	_	_	_	_	_	_	_	_	_	_	_	_	409	409	0.07	0.01	_	413
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unrefrige rated Warehou se-No Rail	_	_	_	_	_	_	_	_	_	_	_	_	409	409	0.07	0.01	_	413
Other Asphalt Surfaces	_	_	_	_	_	_	_	_	_	_	_	_	0.00	0.00	0.00	0.00	_	0.00
Total	_	_	_	_	_	_	_	_	_	_	_	_	409	409	0.07	0.01	_	413
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	<u> </u>	_	_
Unrefrige rated Warehou se-No Rail	_	_	_	_	_	_	_	_	_	_	_	_	67.8	67.8	0.01	< 0.005	_	68.4
Other Asphalt Surfaces	_	_	_	_	_	_	_	_	_	_	_	_	0.00	0.00	0.00	0.00	_	0.00
Total	_	_	_	_	_	_	_	_	_	_	_	_	67.8	67.8	0.01	< 0.005	_	68.4

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Land Use	TOG	ROG	NOx	СО	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unrefrige rated Warehou se-No Rail	0.09	0.04	0.81	0.68	< 0.005	0.06	_	0.06	0.06	_	0.06	_	967	967	0.09	< 0.005	_	970
Other Asphalt Surfaces	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
Total	0.09	0.04	0.81	0.68	< 0.005	0.06	_	0.06	0.06	_	0.06	_	967	967	0.09	< 0.005	_	970
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unrefrige rated Warehou se-No Rail	0.09	0.04	0.81	0.68	< 0.005	0.06	_	0.06	0.06	_	0.06	_	967	967	0.09	< 0.005	_	970
Other Asphalt Surfaces	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
Total	0.09	0.04	0.81	0.68	< 0.005	0.06	_	0.06	0.06	_	0.06	_	967	967	0.09	< 0.005	_	970
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unrefrige rated Warehou se-No Rail	0.02	0.01	0.15	0.12	< 0.005	0.01	_	0.01	0.01	_	0.01	_	160	160	0.01	< 0.005	_	161

Other Asphalt Surfaces	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
Total	0.02	0.01	0.15	0.12	< 0.005	0.01	_	0.01	0.01	_	0.01	_	160	160	0.01	< 0.005	_	161

4.2.4. Natural Gas Emissions By Land Use - Mitigated

O		110 (1.07 0.0	,	. ,, , .		, , , , , , , , ,	J. 100 (-		, ,	a							
Land Use	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unrefrige rated Warehou se-No Rail	0.09	0.04	0.81	0.68	< 0.005	0.06	_	0.06	0.06	_	0.06	_	967	967	0.09	< 0.005	_	970
Other Asphalt Surfaces	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
Total	0.09	0.04	0.81	0.68	< 0.005	0.06	_	0.06	0.06	_	0.06	_	967	967	0.09	< 0.005	_	970
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unrefrige rated Warehou se-No Rail	0.09	0.04	0.81	0.68	< 0.005	0.06	_	0.06	0.06	_	0.06	_	967	967	0.09	< 0.005	_	970
Other Asphalt Surfaces	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
Total	0.09	0.04	0.81	0.68	< 0.005	0.06	_	0.06	0.06	_	0.06	_	967	967	0.09	< 0.005	_	970
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

Unrefrige Warehous Rail		0.01	0.15	0.12	< 0.005	0.01	_	0.01	0.01	_	0.01	_	160	160	0.01	< 0.005	_	161
Other Asphalt Surfaces	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
Total	0.02	0.01	0.15	0.12	< 0.005	0.01	_	0.01	0.01	_	0.01	_	160	160	0.01	< 0.005	_	161

4.3. Area Emissions by Source

4.3.1. Unmitigated

Source	TOG	ROG	NOx	СО	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	СО2Т	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Consum er Products	_	6.03	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Architect ural Coatings	_	0.90	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Landsca pe Equipme nt	4.20	3.88	0.20	23.6	< 0.005	0.04	_	0.04	0.03	_	0.03	_	97.2	97.2	< 0.005	< 0.005	_	97.5
Total	4.20	10.8	0.20	23.6	< 0.005	0.04	_	0.04	0.03	_	0.03	_	97.2	97.2	< 0.005	< 0.005	_	97.5
Daily, Winter (Max)	_	_	_				_	_	_	_	_	_	_	_	_	_	_	_
Consum er Products	_	6.03	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

Architect ural	_	0.90	_	_	_	_	_	_		_	_	_		_	_	_	_	_
Total	_	6.93	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Consum er Products	_	1.10	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Architect ural Coatings	_	0.16	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Landsca pe Equipme nt	0.38	0.35	0.02	2.13	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	7.93	7.93	< 0.005	< 0.005	_	7.96
Total	0.38	1.61	0.02	2.13	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	7.93	7.93	< 0.005	< 0.005	_	7.96

4.3.2. Mitigated

Source	TOG	ROG	NOx	СО	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	СО2Т	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Consum er Products	_	6.03	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Architect ural Coatings	_	0.90	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Landsca pe Equipme nt	4.20	3.88	0.20	23.6	< 0.005	0.04	_	0.04	0.03	_	0.03	_	97.2	97.2	< 0.005	< 0.005	_	97.5
Total	4.20	10.8	0.20	23.6	< 0.005	0.04	_	0.04	0.03	_	0.03	_	97.2	97.2	< 0.005	< 0.005	_	97.5

Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Consum er Products	_	6.03	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Architect ural Coatings	_	0.90	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	6.93	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Consum er Products	_	1.10	-	-	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Architect ural Coatings	_	0.16	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Landsca pe Equipme nt	0.38	0.35	0.02	2.13	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	7.93	7.93	< 0.005	< 0.005	_	7.96
Total	0.38	1.61	0.02	2.13	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	7.93	7.93	< 0.005	< 0.005	_	7.96

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

Land Use	TOG	ROG	NOx	СО	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily,	_	_	_	_	_	_	_	_		_	_	_	_	_	_	_	_	_
Summer																		
(Max)																		

Unrefrige	_	_	_	_	_	_	_	_	_	_	_	241	229	470	24.7	0.59		1,264
rated Warehou Rail																0.00		1,20
Other Asphalt Surfaces	_	_	_	_	_	_	_	_	_	_	_	0.00	0.00	0.00	0.00	0.00	_	0.00
Total	_	_	_	_	_	_	_	_	_	_	_	241	229	470	24.7	0.59	_	1,264
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unrefrige rated Warehou se-No Rail	_	_	_	_	_	_	_	_	_	_	_	241	229	470	24.7	0.59	_	1,264
Other Asphalt Surfaces	_	_	_	_	_	_	_	_	_	_	_	0.00	0.00	0.00	0.00	0.00	-	0.00
Total	_	_	_	_	_	_	_	_	_	_	_	241	229	470	24.7	0.59	_	1,264
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	<u> </u>
Unrefrige rated Warehou se-No Rail	_	_	_	_	_	_	_	_	_	_	_	39.9	37.9	77.8	4.09	0.10	_	209
Other Asphalt Surfaces	_	_	_	_	_	_	_	_	_	_	_	0.00	0.00	0.00	0.00	0.00	_	0.00
Total	_	_	_	_	_	_	_	_	_	_	_	39.9	37.9	77.8	4.09	0.10	_	209

4.4.2. Mitigated

				,	<i>J</i> , <i>J</i> -		,		· · · · · · · · · · · · · · · · · · ·			,							
Lar	nd	TOG	ROG	NOx	CO	SO2	IPM10E	PM10D	IPM10T	IPM2.5E	IPM2.5D	IPM2.5T	IBCO2	INBCO2	CO2T	ICH4	IN2O	IR I	CO2e
Use	Э																		

Daily, Summer (Max)	_							_		_					_	_	_	_
Unrefrige rated Warehou se-No Rail	_	_	_	_	_	_	_	_	_	_	_	241	229	470	24.7	0.59		1,264
Other Asphalt Surfaces	_	_	_	_	_	_	_	_	_	_	_	0.00	0.00	0.00	0.00	0.00	_	0.00
Total	_	_	_	_	_	_	_	_	_	_	_	241	229	470	24.7	0.59	_	1,264
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	-	_	_	_	_
Unrefrige rated Warehou se-No Rail	_	_	_	_	_	_	_	_	_	_	_	241	229	470	24.7	0.59	_	1,264
Other Asphalt Surfaces	_	_	_	_	_	_	_	_	_	_	_	0.00	0.00	0.00	0.00	0.00	_	0.00
Total	_	_	_	_	_	_	_	_	_	_	_	241	229	470	24.7	0.59	_	1,264
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unrefrige rated Warehou se-No Rail		_	_	_	_	_	_	_	_	_	_	39.9	37.9	77.8	4.09	0.10	_	209
Other Asphalt Surfaces	_	_	_	_	_	_	_	_	_	_	_	0.00	0.00	0.00	0.00	0.00	_	0.00
Total	_	_	_	_	_	_	_	_	_	_	_	39.9	37.9	77.8	4.09	0.10	_	209

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

Land Use	TOG	ROG	NOx	СО	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	-	-	-	_	_	_	-	_	_	-	_	_	_	_	_
Unrefrige rated Warehou se-No Rail	_	_	_	_	_	_	_	_	_	_	_	275	0.00	275	27.5	0.00	_	963
Other Asphalt Surfaces	_	_	_	_	_	_	_	_	_	_	_	0.00	0.00	0.00	0.00	0.00	_	0.00
Total	_	_	_	_	_	_	_	_	_	_	_	275	0.00	275	27.5	0.00	_	963
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unrefrige rated Warehou se-No Rail	_	_	_	_	_	_	_	_	_	_	_	275	0.00	275	27.5	0.00	_	963
Other Asphalt Surfaces	_	_	_	_	_	_	_	_	_	_	_	0.00	0.00	0.00	0.00	0.00	_	0.00
Total	_	_	_	_	_	_	_	_	_	_	_	275	0.00	275	27.5	0.00	_	963
Annual	_	_	_	<u> </u>	_	_	_	_	_	_	_	_	_	_	_	_		_

Unrefrige rated Warehou se-No Rail	_	_	_	_	_	_	_	_	_	_	_	45.6	0.00	45.6	4.55	0.00	_	159
Other Asphalt Surfaces	_	_	_	_	_	_	_	_	_	_	_	0.00	0.00	0.00	0.00	0.00	_	0.00
Total	_	_	_	_	_	_	_	_	_	_	_	45.6	0.00	45.6	4.55	0.00	_	159

4.5.2. Mitigated

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Land Use	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	СО2Т	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unrefrige rated Warehou se-No Rail	_	_	_	_	_	_	_	_	_	_		275	0.00	275	27.5	0.00	_	963
Other Asphalt Surfaces	_	_	_	_	_	_	_	_	_	_	_	0.00	0.00	0.00	0.00	0.00	_	0.00
Total	_	_	_	_	_	_	_	_		_	_	275	0.00	275	27.5	0.00	_	963
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unrefrige rated Warehou se-No Rail	_	_	_	_	_	_	_			_	_	275	0.00	275	27.5	0.00	_	963

Other Asphalt Surfaces	_	_	_	_	_	_	_	_	_	_	_	0.00	0.00	0.00	0.00	0.00	_	0.00
Total	_	_	_	_	_	_	_	_	_	_	_	275	0.00	275	27.5	0.00	_	963
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unrefrige rated Warehou se-No Rail	_	_	_	_	_	_	_	_	_	_	_	45.6	0.00	45.6	4.55	0.00	_	159
Other Asphalt Surfaces	_	_	_	_	_	_	_	_	_	_	_	0.00	0.00	0.00	0.00	0.00	_	0.00
Total	_	_	_	_	_	_	_	_	_	_	_	45.6	0.00	45.6	4.55	0.00	_	159

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

		ROG								PM2.5D		BCO2	NBCO2	СО2Т	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_		_	_	_	_	_	_	_		_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_		_	_	_	_	_	_	_		_	_	_	_	_
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

4.6.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Ontona		(1.07 0.0.	y ron dan	iy, toinyi			٠ ٠٠ ر.	io, didiy	Gany, II	, ,	Jan 11 1 J. J. J. J.							
Land Use	TOG	ROG	NOx	СО	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_		_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

Equipme nt Type	TOG	ROG	NOx	со	SO2	PM10E	PM10D		PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

Total	_	_	_	_	_	_	_	_	_	_	_	_	 	_	_	_	
iotai																	

4.7.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipme nt	TOG	ROG	NOx	СО	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_		_	_	_	_	_		_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

Equipme nt Type	TOG	ROG	NOx	СО	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_		_	_	_

Total	_	_	_	-	_	_	_	_	_	_	-	-	_	_	_	_	_	_
Annual	_	_	_	_	_	_	<u> </u>	_	<u> </u>	_	_	_	<u> </u>	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

4.8.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipme nt	TOG	ROG		со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Туре																		
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

Equipme nt Type	TOG	ROG	NOx	СО	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

4.9.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

		(,	<i>y</i> , <i>y</i> .		,	(.,	,							
Equipme nt Type	TOG	ROG	NOx	СО	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	<u> </u>	_	_	_	_	_	_	_	_	_		_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Vegetatio	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
n																		

Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	<u> </u>	_	_	_	<u> </u>	_	_	_	_	_
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Lond	TOC			00	SO2	DM40E	DM40D	DMAOT	DMO FF	DMO ED	DMO ET	DCO2	NDCOO	СООТ	CLIA	Nac	П	0000
Land Use	TOG	ROG	NOx	со	502	PM10E	PM10D	PM10T	PM2.5E	PIVIZ.5D	PIVIZ.51	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5F	PM2 5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Орослос	100	11100	IIIOA	100	0 0 _	1	1	1 11110	I IVIL.OL	11 1112.00	11 1112.01	1000	1.1000	0 0	0111	11120	1.5	10020

Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Avoided	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Sequest ered	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Remove d	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Avoided	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Sequest ered	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Remove d	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Avoided	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Sequest ered	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

Remove d	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetatio n	TOG	ROG		со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

4.10.5. Above and Belowground Carbon Accumulation by Land Use Type - Mitigated

Land Use	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

Total	_	_	_	-	_	_	_	_	_	_	-	_	_	_	-	_	_	_
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	<u> </u>	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

Species	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	-	_	-	-	_	_	-	-	-	_	-	-	_	_	-	-	-
Avoided	_	_	_		_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Sequest ered	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Remove d	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Avoided	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Sequest ered	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Remove d	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	-	_	_	_
Annual	_	_	_	_	_	_	_	_		_	_	_	_	_	_	_	_	_
Avoided	_	_	_	_	_	_	_	_	<u> </u>	_	<u> </u>	_	_	<u> </u>	_	_	<u> </u>	_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Sequest ered	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Remove d	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Site Preparation	Site Preparation	7/8/2024	7/26/2024	6.00	17.0	Site Preparation
Phase 1 - Site Finishing	Site Preparation	9/29/2025	11/16/2025	6.00	42.0	Site Finishing (Phase 1)
Phase 2 - Site Finishing	Site Preparation	5/18/2026	7/20/2026	6.00	55.0	Site Finishing (Phase 2)
Grading	Grading	7/29/2024	12/20/2024	6.00	125	Grading
Off-site Grading	Grading	12/24/2024	12/15/2025	6.00	306	Off-Site Grading
Phase 1 - Building Construction	Building Construction	12/23/2024	12/29/2025	6.00	319	Building Construction (Phase 1)
Phase 2 - Building Construction	Building Construction	12/29/2025	8/21/2026	6.00	203	Building Construction (Phase 2)
Off-site Paving	Paving	10/21/2025	12/15/2025	6.00	48.0	Off-Site Paving
Off-site Improvements	Trenching	4/14/2025	10/20/2025	6.00	163	Off-site Improvements

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Site Preparation	Rubber Tired Dozers	Diesel	Tier 4 Final	3.00	8.00	367	0.40
Site Preparation	Tractors/Loaders/Backh oes	Diesel	Tier 4 Final	2.00	8.00	84.0	0.37
Site Preparation	Off-Highway Trucks	Diesel	Tier 4 Final	2.00	8.00	376	0.38
Phase 1 - Site Finishing	Tractors/Loaders/Backh oes	Diesel	Tier 4 Final	1.00	8.00	84.0	0.37
Phase 1 - Site Finishing	Skid Steer Loaders	Diesel	Tier 4 Final	1.00	8.00	71.0	0.37
Phase 1 - Site Finishing	Trenchers	Diesel	Average	1.00	8.00	40.0	0.50
Phase 1 - Site Finishing	Off-Highway Trucks	Diesel	Tier 4 Final	1.00	8.00	376	0.38
Phase 1 - Site Finishing	Graders	Diesel	Tier 4 Final	1.00	8.00	148	0.41
Phase 1 - Site Finishing	Plate Compactors	Diesel	Average	1.00	8.00	8.00	0.43
Phase 2 - Site Finishing	Tractors/Loaders/Backh oes	Diesel	Tier 4 Final	1.00	8.00	84.0	0.37
Phase 2 - Site Finishing	Skid Steer Loaders	Diesel	Tier 4 Final	1.00	8.00	71.0	0.37
Phase 2 - Site Finishing	Trenchers	Diesel	Average	1.00	8.00	40.0	0.50
Phase 2 - Site Finishing	Off-Highway Trucks	Diesel	Tier 4 Final	1.00	8.00	376	0.38
Phase 2 - Site Finishing	Graders	Diesel	Tier 4 Final	1.00	8.00	148	0.41
Phase 2 - Site Finishing	Plate Compactors	Diesel	Average	1.00	8.00	8.00	0.43
Grading	Graders	Diesel	Tier 4 Final	1.00	8.00	148	0.41
Grading	Excavators	Diesel	Average	2.00	8.00	36.0	0.38
Grading	Tractors/Loaders/Backh oes	Diesel	Tier 4 Final	2.00	8.00	84.0	0.37
Grading	Scrapers	Diesel	Tier 4 Final	6.00	8.00	423	0.48
Grading	Rubber Tired Dozers	Diesel	Tier 4 Final	1.00	8.00	367	0.40
Grading	Off-Highway Trucks	Diesel	Tier 4 Final	4.00	8.00	376	0.38

Grading	Other Construction Equipment	Diesel	Tier 4 Final	2.00	8.00	82.0	0.42
Off-site Grading	Graders	Diesel	Tier 4 Final	1.00	8.00	148	0.41
Off-site Grading	Excavators	Diesel	Average	3.00	8.00	36.0	0.38
Off-site Grading	Tractors/Loaders/Backh oes	Diesel	Tier 4 Final	3.00	8.00	84.0	0.37
Off-site Grading	Scrapers	Diesel	Tier 4 Final	1.00	8.00	423	0.48
Off-site Grading	Rubber Tired Dozers	Diesel	Tier 4 Final	1.00	8.00	367	0.40
Off-site Grading	Forklifts	Diesel	Tier 4 Final	1.00	8.00	82.0	0.20
Off-site Grading	Off-Highway Trucks	Diesel	Tier 4 Final	3.00	8.00	376	0.38
Off-site Grading	Skid Steer Loaders	Diesel	Tier 4 Final	1.00	8.00	71.0	0.37
Phase 1 - Building Construction	Forklifts	Diesel	Tier 4 Final	6.00	8.00	82.0	0.20
Phase 1 - Building Construction	Generator Sets	Diesel	Average	4.00	8.00	14.0	0.74
Phase 1 - Building Construction	Cranes	Diesel	Tier 4 Final	1.00	7.00	367	0.29
Phase 1 - Building Construction	Welders	Diesel	Average	1.00	8.00	46.0	0.45
Phase 1 - Building Construction	Tractors/Loaders/Backh oes	Diesel	Tier 4 Final	3.00	7.00	84.0	0.37
Phase 1 - Building Construction	Aerial Lifts	Diesel	Average	8.00	8.00	46.0	0.31
Phase 2 - Building Construction	Forklifts	Diesel	Tier 4 Final	4.00	8.00	82.0	0.20
Phase 2 - Building Construction	Generator Sets	Diesel	Average	2.00	8.00	14.0	0.74
Phase 2 - Building Construction	Cranes	Diesel	Tier 4 Final	1.00	7.00	367	0.29
Phase 2 - Building Construction	Welders	Diesel	Average	1.00	8.00	46.0	0.45

Phase 2 - Building Construction	Tractors/Loaders/Backh oes	Diesel	Tier 4 Final	3.00	7.00	84.0	0.37
Phase 2 - Building Construction	Aerial Lifts	Diesel	Average	8.00	8.00	46.0	0.31
Off-site Paving	Pavers	Diesel	Tier 4 Final	2.00	8.00	81.0	0.42
Off-site Paving	Paving Equipment	Diesel	Tier 4 Final	2.00	8.00	89.0	0.36
Off-site Paving	Rollers	Diesel	Average	2.00	8.00	36.0	0.38
Off-site Improvements	Forklifts	Diesel	Tier 4 Final	1.00	8.00	82.0	0.20
Off-site Improvements	Tractors/Loaders/Backh oes	Diesel	Tier 4 Final	6.00	8.00	84.0	0.37
Off-site Improvements	Off-Highway Trucks	Diesel	Tier 4 Final	1.00	8.00	376	0.38
Off-site Improvements	Graders	Diesel	Tier 4 Final	1.00	8.00	148	0.41
Off-site Improvements	Scrapers	Diesel	Tier 4 Final	1.00	8.00	423	0.48
Off-site Improvements	Sweepers/Scrubbers	Diesel	Average	1.00	8.00	36.0	0.46
Off-site Improvements	Tractors/Loaders/Backh oes	Diesel	Tier 4 Final	1.00	8.00	84.0	0.37

5.2.2. Mitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Site Preparation	Rubber Tired Dozers	Diesel	Tier 4 Final	3.00	8.00	367	0.40
Site Preparation	Tractors/Loaders/Backh oes	Diesel	Tier 4 Final	2.00	8.00	84.0	0.37
Site Preparation	Off-Highway Trucks	Diesel	Tier 4 Final	2.00	8.00	376	0.38
Phase 1 - Site Finishing	Tractors/Loaders/Backh oes	Diesel	Tier 4 Final	1.00	8.00	84.0	0.37
Phase 1 - Site Finishing	Skid Steer Loaders	Diesel	Tier 4 Final	1.00	8.00	71.0	0.37
Phase 1 - Site Finishing	Trenchers	Diesel	Average	1.00	8.00	40.0	0.50
Phase 1 - Site Finishing	Off-Highway Trucks	Diesel	Tier 4 Final	1.00	8.00	376	0.38
Phase 1 - Site Finishing	Graders	Diesel	Tier 4 Final	1.00	8.00	148	0.41

Phase 1 - Site Finishing	Plate Compactors	Diesel	Average	1.00	8.00	8.00	0.43
Phase 2 - Site Finishing	Tractors/Loaders/Backh oes	Diesel	Tier 4 Final	1.00	8.00	84.0	0.37
Phase 2 - Site Finishing	Skid Steer Loaders	Diesel	Tier 4 Final	1.00	8.00	71.0	0.37
Phase 2 - Site Finishing	Trenchers	Diesel	Average	1.00	8.00	40.0	0.50
Phase 2 - Site Finishing	Off-Highway Trucks	Diesel	Tier 4 Final	1.00	8.00	376	0.38
Phase 2 - Site Finishing	Graders	Diesel	Tier 4 Final	1.00	8.00	148	0.41
Phase 2 - Site Finishing	Plate Compactors	Diesel	Average	1.00	8.00	8.00	0.43
Grading	Graders	Diesel	Tier 4 Final	1.00	8.00	148	0.41
Grading	Excavators	Diesel	Average	2.00	8.00	36.0	0.38
Grading	Tractors/Loaders/Backh oes	Diesel	Tier 4 Final	2.00	8.00	84.0	0.37
Grading	Scrapers	Diesel	Tier 4 Final	6.00	8.00	423	0.48
Grading	Rubber Tired Dozers	Diesel	Tier 4 Final	1.00	8.00	367	0.40
Grading	Off-Highway Trucks	Diesel	Tier 4 Final	4.00	8.00	376	0.38
Grading	Other Construction Equipment	Diesel	Tier 4 Final	2.00	8.00	82.0	0.42
Off-site Grading	Graders	Diesel	Tier 4 Final	1.00	8.00	148	0.41
Off-site Grading	Excavators	Diesel	Average	3.00	8.00	36.0	0.38
Off-site Grading	Tractors/Loaders/Backh oes	Diesel	Tier 4 Final	3.00	8.00	84.0	0.37
Off-site Grading	Scrapers	Diesel	Tier 4 Final	1.00	8.00	423	0.48
Off-site Grading	Rubber Tired Dozers	Diesel	Tier 4 Final	1.00	8.00	367	0.40
Off-site Grading	Forklifts	Diesel	Tier 4 Final	1.00	8.00	82.0	0.20
Off-site Grading	Off-Highway Trucks	Diesel	Tier 4 Final	3.00	8.00	376	0.38
Off-site Grading	Skid Steer Loaders	Diesel	Tier 4 Final	1.00	8.00	71.0	0.37
Phase 1 - Building Construction	Forklifts	Diesel	Tier 4 Final	6.00	8.00	82.0	0.20
Phase 1 - Building Construction	Generator Sets	Diesel	Average	4.00	8.00	14.0	0.74

Phase 1 - Building	Cranes	Diesel	Tier 4 Final	1.00	7.00	367	0.29
Construction							
Phase 1 - Building Construction	Welders	Diesel	Average	1.00	8.00	46.0	0.45
Phase 1 - Building Construction	Tractors/Loaders/Backh oes	Diesel	Tier 4 Final	3.00	7.00	84.0	0.37
Phase 1 - Building Construction	Aerial Lifts	Diesel	Average	8.00	8.00	46.0	0.31
Phase 2 - Building Construction	Forklifts	Diesel	Tier 4 Final	4.00	8.00	82.0	0.20
Phase 2 - Building Construction	Generator Sets	Diesel	Average	2.00	8.00	14.0	0.74
Phase 2 - Building Construction	Cranes	Diesel	Tier 4 Final	1.00	7.00	367	0.29
Phase 2 - Building Construction	Welders	Diesel	Average	1.00	8.00	46.0	0.45
Phase 2 - Building Construction	Tractors/Loaders/Backh oes	Diesel	Tier 4 Final	3.00	7.00	84.0	0.37
Phase 2 - Building Construction	Aerial Lifts	Diesel	Average	8.00	8.00	46.0	0.31
Off-site Paving	Pavers	Diesel	Tier 4 Final	2.00	8.00	81.0	0.42
Off-site Paving	Paving Equipment	Diesel	Tier 4 Final	2.00	8.00	89.0	0.36
Off-site Paving	Rollers	Diesel	Average	2.00	8.00	36.0	0.38
Off-site Improvements	Forklifts	Diesel	Tier 4 Final	1.00	8.00	82.0	0.20
Off-site Improvements	Tractors/Loaders/Backh oes	Diesel	Tier 4 Final	6.00	8.00	84.0	0.37
Off-site Improvements	Off-Highway Trucks	Diesel	Tier 4 Final	1.00	8.00	376	0.38
Off-site Improvements	Graders	Diesel	Tier 4 Final	1.00	8.00	148	0.41
Off-site Improvements	Scrapers	Diesel	Tier 4 Final	1.00	8.00	423	0.48
Off-site Improvements	Sweepers/Scrubbers	Diesel	Average	1.00	8.00	36.0	0.46
Off-site Improvements	Tractors/Loaders/Backh oes	Diesel	Tier 4 Final	1.00	8.00	84.0	0.37

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Site Preparation	_	_	—	
Site Preparation	Worker	17.5	11.9	LDA,LDT1,LDT2
Site Preparation	Vendor	_	9.10	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	_	_	HHDT
Grading	_	_	_	_
Grading	Worker	45.0	11.9	LDA,LDT1,LDT2
Grading	Vendor	_	9.10	HHDT,MHDT
Grading	Hauling	61.0	20.0	HHDT
Grading	Onsite truck	_	_	HHDT
Phase 1 - Building Construction	_	_	_	_
Phase 1 - Building Construction	Worker	228	11.9	LDA,LDT1,LDT2
Phase 1 - Building Construction	Vendor	89.1	9.10	HHDT,MHDT
Phase 1 - Building Construction	Hauling	0.00	20.0	HHDT
Phase 1 - Building Construction	Onsite truck	_	_	HHDT
Phase 1 - Site Finishing	_	_	_	_
Phase 1 - Site Finishing	Worker	15.0	11.9	LDA,LDT1,LDT2
Phase 1 - Site Finishing	Vendor	_	9.10	HHDT,MHDT
Phase 1 - Site Finishing	Hauling	48.0	20.0	HHDT
Phase 1 - Site Finishing	Onsite truck	_	_	HHDT
Phase 2 - Site Finishing	_	_	_	_
Phase 2 - Site Finishing	Worker	15.0	11.9	LDA,LDT1,LDT2
Phase 2 - Site Finishing	Vendor	_	9.10	HHDT,MHDT

Phase 2 - Site Finishing	Hauling	73.0	20.0	HHDT
Phase 2 - Site Finishing	Onsite truck	_	_	ННОТ
Off-site Grading	_	_	_	_
Off-site Grading	Worker	35.0	11.9	LDA,LDT1,LDT2
Off-site Grading	Vendor	_	9.10	HHDT,MHDT
Off-site Grading	Hauling	0.00	20.0	HHDT
Off-site Grading	Onsite truck	_	_	HHDT
Phase 2 - Building Construction	_	_	_	_
Phase 2 - Building Construction	Worker	228	11.9	LDA,LDT1,LDT2
Phase 2 - Building Construction	Vendor	89.1	9.10	HHDT,MHDT
Phase 2 - Building Construction	Hauling	0.00	20.0	HHDT
Phase 2 - Building Construction	Onsite truck	_	_	HHDT
Off-site Paving	_	_	_	_
Off-site Paving	Worker	15.0	11.9	LDA,LDT1,LDT2
Off-site Paving	Vendor	_	9.10	HHDT,MHDT
Off-site Paving	Hauling	12.0	20.0	HHDT
Off-site Paving	Onsite truck	_	_	HHDT
Off-site Improvements	_	_	_	_
Off-site Improvements	Worker	30.0	11.9	LDA,LDT1,LDT2
Off-site Improvements	Vendor	_	9.10	HHDT,MHDT
Off-site Improvements	Hauling	11.0	20.0	HHDT
Off-site Improvements	Onsite truck	_	_	HHDT

5.3.2. Mitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Site Preparation	_	_	_	_
Site Preparation	Worker	17.5	11.9	LDA,LDT1,LDT2

Site Preparation	Vendor	_	9.10	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	_	_	HHDT
Grading	_	_	_	_
Grading	Worker	45.0	11.9	LDA,LDT1,LDT2
Grading	Vendor	_	9.10	HHDT,MHDT
Grading	Hauling	61.0	20.0	HHDT
Grading	Onsite truck	_	_	HHDT
Phase 1 - Building Construction	_	_	_	_
Phase 1 - Building Construction	Worker	228	11.9	LDA,LDT1,LDT2
Phase 1 - Building Construction	Vendor	89.1	9.10	HHDT,MHDT
Phase 1 - Building Construction	Hauling	0.00	20.0	HHDT
Phase 1 - Building Construction	Onsite truck	_	_	HHDT
Phase 1 - Site Finishing	_	_	_	_
Phase 1 - Site Finishing	Worker	15.0	11.9	LDA,LDT1,LDT2
Phase 1 - Site Finishing	Vendor	_	9.10	HHDT,MHDT
Phase 1 - Site Finishing	Hauling	48.0	20.0	HHDT
Phase 1 - Site Finishing	Onsite truck	_	_	HHDT
Phase 2 - Site Finishing	_	_	_	_
Phase 2 - Site Finishing	Worker	15.0	11.9	LDA,LDT1,LDT2
Phase 2 - Site Finishing	Vendor	_	9.10	HHDT,MHDT
Phase 2 - Site Finishing	Hauling	73.0	20.0	HHDT
Phase 2 - Site Finishing	Onsite truck	_	_	HHDT
Off-site Grading	_	_	_	_
Off-site Grading	Worker	35.0	11.9	LDA,LDT1,LDT2
Off-site Grading	Vendor	_	9.10	HHDT,MHDT
Off-site Grading	Hauling	0.00	20.0	HHDT

Off-site Grading	Onsite truck	_	_	HHDT
Phase 2 - Building Construction	_	_	_	_
Phase 2 - Building Construction	Worker	228	11.9	LDA,LDT1,LDT2
Phase 2 - Building Construction	Vendor	89.1	9.10	HHDT,MHDT
Phase 2 - Building Construction	Hauling	0.00	20.0	HHDT
Phase 2 - Building Construction	Onsite truck	_	_	HHDT
Off-site Paving	_	_	_	_
Off-site Paving	Worker	15.0	11.9	LDA,LDT1,LDT2
Off-site Paving	Vendor	_	9.10	HHDT,MHDT
Off-site Paving	Hauling	12.0	20.0	HHDT
Off-site Paving	Onsite truck	_	_	HHDT
Off-site Improvements	_	_	_	_
Off-site Improvements	Worker	30.0	11.9	LDA,LDT1,LDT2
Off-site Improvements	Vendor	_	9.10	HHDT,MHDT
Off-site Improvements	Hauling	11.0	20.0	HHDT
Off-site Improvements	Onsite truck	_	_	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Non-applicable. No control strategies activated by user.

5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated	Residential Exterior Area Coated	Non-Residential Interior Area	Non-Residential Exterior Area	Parking Area Coated (sq ft)
	(sq ft)	(sq ft)	Coated (sq ft)	Coated (sq ft)	

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (Cubic Yards)	Material Exported (Cubic Yards)	Acres Graded (acres)	Material Demolished (sq. ft.)	Acres Paved (acres)
Site Preparation	0.00	0.00	180	0.00	_
Phase 1 - Site Finishing	0.00	0.00	52.5	0.00	_
Phase 2 - Site Finishing	0.00	0.00	69.0	0.00	_
Grading	70,000	0.00	930	0.00	_
Off-site Grading	0.00	0.00	765	0.00	_
Off-site Paving	0.00	0.00	0.00	0.00	62.9

5.6.2. Construction Earthmoving Control Strategies

Non-applicable. No control strategies activated by user.

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Unrefrigerated Warehouse-No Rail	0.00	0%
Other Asphalt Surfaces	62.9	100%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2024	0.00	204	0.03	< 0.005
2025	0.00	204	0.03	< 0.005
2026	0.00	204	0.03	< 0.005

5.9. Operational Mobile Sources

5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Unrefrigerated Warehouse-No Rail	1,183	1,183	1,183	431,795	25,283	25,283	25,283	9,228,430
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

5.9.2. Mitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Unrefrigerated Warehouse-No Rail	1,183	1,183	1,183	431,795	25,283	25,283	25,283	9,228,430
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.1.2. Mitigated

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
0	0.00	814,995	271,665	164,500

5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	180

5.10.4. Landscape Equipment - Mitigated

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	180

5.11. Operational Energy Consumption

5.11.1. Unmitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Unrefrigerated Warehouse-No Rail	5,669,475	204	0.0330	0.0040	3,018,108
Other Asphalt Surfaces	0.00	204	0.0330	0.0040	0.00

5.11.2. Mitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

3 (3)	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Unrefrigerated Warehouse-No Rail	732,554	204	0.0330	0.0040	3,018,108
Other Asphalt Surfaces	0.00	204	0.0330	0.0040	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)	
Unrefrigerated Warehouse-No Rail	125,645,063	0.00	
Other Asphalt Surfaces	0.00	0.00	

5.12.2. Mitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)	
Unrefrigerated Warehouse-No Rail	125,645,063	0.00	
Other Asphalt Surfaces	0.00	0.00	

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)	
Unrefrigerated Warehouse-No Rail	511	_	
Other Asphalt Surfaces	0.00	_	

5.13.2. Mitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)	
Unrefrigerated Warehouse-No Rail	511	_	
Other Asphalt Surfaces	0.00	_	

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land use type Equipment type Reinigerant GWP Quantity (kg) Operations Leak Rate Service Leak Rate Times Serviced 1	Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
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5.14.2. Mitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor

5.15.2. Mitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor
Equipment Type	i doi typo	I valifical par Day	I louis poi buy	riours per real	1013cpowci	Load I doloi

5.16.2. Process Boilers

Equipr	nent Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)

5.17. User Defined

Equipment Type	Fuel Type
_	_

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type Vegetation Soil Type Initial Acres Final Acres

5.18.1.2. Mitigated

 Vegetation Land Use Type
 Vegetation Soil Type
 Initial Acres
 Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type Initial Acres Final Acres

5.18.1.2. Mitigated

Biomass Cover Type Initial Acres Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type Number Electricity Saved (kWh/year) Natural Gas Saved (btu/year)

5.18.2.2. Mitigated

Tree Type Number Electricity Saved (kWh/year) Natural Gas Saved (btu/year)

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	21.4	annual days of extreme heat

Extreme Precipitation	0.95	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	21.1	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.41 meters

Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	1	0	0	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	0	0	0	N/A
Drought	0	0	0	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	0	0	0	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	1	1	1	2
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	1	1	1	2
Drought	1	1	1	2
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	1	1	1	2

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	_
AQ-Ozone	60.9
AQ-PM	31.6
AQ-DPM	43.4
Drinking Water	52.8
Lead Risk Housing	2.00
Pesticides	76.8

Toxic Releases	24.6
Traffic	69.8
Effect Indicators	_
CleanUp Sites	20.5
Groundwater	90.9
Haz Waste Facilities/Generators	88.2
Impaired Water Bodies	0.00
Solid Waste	0.00
Sensitive Population	_
Asthma	38.8
Cardio-vascular	73.9
Low Birth Weights	51.8
Socioeconomic Factor Indicators	_
Education	32.2
Housing	13.1
Linguistic	39.8
Poverty	10.9
Unemployment	39.2

7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	_
Above Poverty	74.83639163
Employed	47.8121391
Median HI	86.88566662
Education	_

Bachelor's or higher	55.60118055
High school enrollment	26.62645964
Preschool enrollment	40.40805851
Transportation	
Auto Access	81.29090209
Active commuting	36.22481714
Social	
2-parent households	64.72475298
Voting	66.31592455
Neighborhood	
Alcohol availability	90.27332221
Park access	51.80290004
Retail density	7.327088413
Supermarket access	28.5255999
Tree canopy	47.95329142
Housing	_
Homeownership	80.99576543
Housing habitability	92.24945464
Low-inc homeowner severe housing cost burden	86.9626588
Low-inc renter severe housing cost burden	79.71256256
Uncrowded housing	69.47260362
Health Outcomes	_
Insured adults	66.05928397
Arthritis	86.1
Asthma ER Admissions	51.6
High Blood Pressure	59.0
Cancer (excluding skin)	71.8

Asthma	65.7
Coronary Heart Disease	90.3
Chronic Obstructive Pulmonary Disease	86.1
Diagnosed Diabetes	79.4
Life Expectancy at Birth	59.9
Cognitively Disabled	66.4
Physically Disabled	93.4
Heart Attack ER Admissions	15.0
Mental Health Not Good	64.8
Chronic Kidney Disease	85.5
Obesity	59.8
Pedestrian Injuries	44.0
Physical Health Not Good	76.2
Stroke	88.3
Health Risk Behaviors	_
Binge Drinking	38.6
Current Smoker	56.8
No Leisure Time for Physical Activity	54.5
Climate Change Exposures	_
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	39.2
Elderly	81.9
English Speaking	58.2
Foreign-born	64.0
Outdoor Workers	48.3
Climate Change Adaptive Capacity	_

Impervious Surface Cover	33.7
Traffic Density	70.0
Traffic Access	0.0
Other Indices	_
Hardship	46.2
Other Decision Support	_
2016 Voting	49.3

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	43.0
Healthy Places Index Score for Project Location (b)	72.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

S	creen	Justification
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b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Land Use	Only Building 1 modeled.
Construction: Construction Phases	No demolition. Construction phases and phase lengths as provided by Project applicant. 6 days per week of construction activity, as provided by Project applicant. Note that two additional paving phases are included in separate CalEEMod model runs, since CalEEMod only allows one paving phase per model run.
Operations: Fleet Mix	Revised fleet mix to reflect fleet mix provided in Traffic Study (Kimley Horn, 2022). Also trip rates and VMT revised to reflect what is provided in Traffic Study (Kimley Horn, 2022). 29 mile trip length was assumed for HHD vehicles; 17.7478024 trip length (conservative assumption based on largest default CalEEMod assumed trip length value) was assumed for all other vehicles, for a weighted average trip length of 21.37224776 miles. Fleet mix is adjusted to reflect heavy-duty truck mix of 32.211% (as provided by Kimley Horn).
Operations: Consumer Products	Revised General Category consumer products emissions factor to reflect CARB adjustments applied to their Consumer and Commercial Product Survey Emission data, made after the 2008 consumer products emissions factor. Adjustment made to reflect average adjustment factor. See for further detail: https://ww2.arb.ca.gov/our-work/programs/consumer-products-program/consumer-products-emissions-inv0.0000107
Operations: Vehicle Data	Trip rates revised to reflect that the heavy-duty truck trips would average approximately 29 miles per trip. The trip distances for passenger vehicles provided by the defaults in the CalEEMod model were averaged (weighted) with the heavy-duty truck trip distance of 29 miles. This equals a weighted average travel distance of 21.37224776 miles. Trip rate is 2.17731397125136 and 2.17769382473601 per 1000 sf per day, for each of the two buildings (smaller building and larger building), respectively, consistent with what was provided by Kimley Horn.
Construction: Dust From Material Movement	Per Project Applicant, during Grading phase, up to approx. 70,000 cubic yards of soil could be imported. Acres graded represents the default CalEEMod value (note that, according to CalEEMod, "Multiple passes with grading equipment may be required to properly grade a piece of land").
Construction: Off-Road Equipment	Off-road equipment detail as provided by Project applicant.
Construction: Trips and VMT	Hauling trips as provided by Project applicant (note: adjusted upwards to reflect 6 days per week of construction activity).

Tracy Costco - Building 2 Only (Operational) Detailed Report

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1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Tracy Costco - Building 2 Only (Operational)
Construction Start Date	7/8/2024
Operational Year	2026
Lead Agency	_
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	3.00
Precipitation (days)	6.60
Location	37.72034841082716, -121.51274124970524
County	San Joaquin
City	Unincorporated
Air District	San Joaquin Valley APCD
Air Basin	San Joaquin Valley
TAZ	2107
EDFZ	4
Electric Utility	Pacific Gas & Electric Company
Gas Utility	Pacific Gas & Electric
App Version	2022.1.1.20

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq	Special Landscape	Population	Description
					ft)	Area (sq ft)		

Unrefrigerated Warehouse-No Rail	1,202	1000sqft	27.6	1,201,730	0.00	0.00	_	_
Other Asphalt Surfaces	62.9	Acre	62.9	0.00	0.00	0.00	_	_

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Construction	C-10-A	Water Exposed Surfaces
Transportation	T-14*	Provide Electric Vehicle Charging Infrastructure
Transportation	T-34*	Provide Bike Parking
Transportation	T-35*	Provide Tra c Calming Measures
Energy	E-2	Require Energy Efficient Appliances
Energy	E-10-B	Establish Onsite Renewable Energy Systems: Solar Power

^{*} Qualitative or supporting measure. Emission reductions not included in the mitigated emissions results.

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

Un/Mit.	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unmit.	6.94	6.24	41.1	164	0.28	0.95	19.8	19.9	0.92	10.1	10.3	_	37,824	37,824	1.37	1.85	45.4	38,457
Mit.	6.94	6.24	41.1	164	0.28	0.95	10.9	11.8	0.92	3.97	4.18	_	37,824	37,824	1.37	1.85	45.4	38,457
% Reduced	_	_	_	_	_	_	45%	41%	_	61%	59%	_	_	_	_	_	_	_

Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unmit.	7.17	9.01	42.5	158	0.28	0.95	16.2	17.1	0.92	5.46	6.38	_	37,310	37,310	1.26	2.07	1.70	37,895
Mit.	7.17	9.01	42.5	158	0.28	0.95	11.5	12.1	0.92	3.27	4.18	_	37,310	37,310	1.26	2.07	1.70	37,895
% Reduced	_	_	_	_	_	_	29%	29%	_	40%	34%	_	_	_	_	_	_	_
Average Daily (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unmit.	4.90	4.83	27.9	107	0.18	0.61	12.3	12.9	0.59	4.26	4.85	_	24,543	24,543	0.81	1.13	13.7	24,913
Mit.	4.90	4.83	27.9	107	0.18	0.61	8.15	8.76	0.59	2.49	3.08	_	24,543	24,543	0.81	1.13	13.7	24,913
% Reduced	_	_	_	_	_	_	34%	32%	_	42%	37%	_	_	_	_	_	_	_
Annual (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unmit.	0.89	0.88	5.09	19.5	0.03	0.11	2.24	2.35	0.11	0.78	0.89	_	4,063	4,063	0.13	0.19	2.26	4,125
Mit.	0.89	0.88	5.09	19.5	0.03	0.11	1.49	1.60	0.11	0.45	0.56	_	4,063	4,063	0.13	0.19	2.26	4,125
% Reduced	_	_	_	_	_	_	34%	32%	_	42%	37%	_	_	_	_	_	_	_

2.2. Construction Emissions by Year, Unmitigated

Year	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	всо2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
2024	2.51	2.39	16.9	107	0.21	0.51	19.8	19.9	0.51	10.1	10.3	_	24,917	24,917	0.93	0.87	12.2	25,211
2025	6.94	6.24	41.1	164	0.28	0.95	16.2	17.1	0.92	5.46	6.38	_	37,824	37,824	1.37	1.85	45.4	38,457
2026	4.22	3.65	27.5	67.3	0.14	0.46	7.75	8.22	0.45	1.87	2.31	_	21,704	21,704	0.54	1.84	41.3	22,308

Daily - Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
2024	5.29	4.73	29.7	107	0.21	0.61	15.0	15.5	0.58	5.02	5.60	_	24,878	24,878	0.95	1.17	0.93	25,161
2025	7.17	9.01	42.5	158	0.28	0.95	16.2	17.1	0.92	5.46	6.38	_	37,310	37,310	1.26	2.07	1.70	37,895
2026	3.32	2.88	18.4	44.3	0.08	0.26	5.74	6.01	0.25	1.41	1.66	_	13,447	13,447	0.37	1.03	0.76	13,764
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
2024	1.00	0.94	6.64	40.4	0.08	0.19	6.33	6.53	0.19	2.12	2.31	_	9,363	9,363	0.35	0.33	2.13	9,471
2025	4.90	4.83	27.9	107	0.18	0.61	12.3	12.9	0.59	4.26	4.85	_	24,543	24,543	0.81	1.13	13.7	24,913
2026	1.93	1.67	11.4	27.2	0.05	0.17	3.43	3.61	0.17	0.84	1.00	_	8,590	8,590	0.23	0.69	7.68	8,809
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
2024	0.18	0.17	1.21	7.37	0.01	0.04	1.16	1.19	0.04	0.39	0.42	_	1,550	1,550	0.06	0.05	0.35	1,568
2025	0.89	0.88	5.09	19.5	0.03	0.11	2.24	2.35	0.11	0.78	0.89	_	4,063	4,063	0.13	0.19	2.26	4,125
2026	0.35	0.31	2.09	4.96	0.01	0.03	0.63	0.66	0.03	0.15	0.18		1,422	1,422	0.04	0.11	1.27	1,458

2.3. Construction Emissions by Year, Mitigated

Year	TOG	ROG	NOx	СО	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
2024	2.51	2.39	16.9	107	0.21	0.51	7.81	7.95	0.51	3.97	4.11	_	24,917	24,917	0.93	0.87	12.2	25,211
2025	6.94	6.24	41.1	164	0.28	0.95	10.9	11.8	0.92	3.27	4.18	_	37,824	37,824	1.37	1.85	45.4	38,457
2026	4.22	3.65	27.5	67.3	0.14	0.46	7.43	7.89	0.45	1.83	2.28	_	21,704	21,704	0.54	1.84	41.3	22,308
Daily - Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
2024	5.29	4.73	29.7	107	0.21	0.61	9.21	9.82	0.58	2.86	3.44	_	24,878	24,878	0.95	1.17	0.93	25,161
2025	7.17	9.01	42.5	158	0.28	0.95	11.5	12.1	0.92	3.27	4.18	_	37,310	37,310	1.26	2.07	1.70	37,895

2026	3.32	2.88	18.4	44.3	0.08	0.26	5.74	6.01	0.25	1.41	1.66	_	13,447	13,447	0.37	1.03	0.76	13,764
Average Daily	_	_	_	_	_	_	_	_	_		_	_	_	_	_	_	_	_
2024	1.00	0.94	6.64	40.4	0.08	0.19	2.87	3.06	0.19	0.93	1.12	_	9,363	9,363	0.35	0.33	2.13	9,471
2025	4.90	4.83	27.9	107	0.18	0.61	8.15	8.76	0.59	2.49	3.08	_	24,543	24,543	0.81	1.13	13.7	24,913
2026	1.93	1.67	11.4	27.2	0.05	0.17	3.38	3.56	0.17	0.83	1.00	_	8,590	8,590	0.23	0.69	7.68	8,809
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
2024	0.18	0.17	1.21	7.37	0.01	0.04	0.52	0.56	0.04	0.17	0.20	_	1,550	1,550	0.06	0.05	0.35	1,568
2025	0.89	0.88	5.09	19.5	0.03	0.11	1.49	1.60	0.11	0.45	0.56	_	4,063	4,063	0.13	0.19	2.26	4,125
2026	0.35	0.31	2.09	4.96	0.01	0.03	0.62	0.65	0.03	0.15	0.18	_	1,422	1,422	0.04	0.11	1.27	1,458

2.4. Operations Emissions Compared Against Thresholds

Un/Mit.	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	-	_	_	_	_
Unmit.	22.5	34.1	84.4	199	0.89	1.53	43.2	44.7	1.44	11.2	12.7	1,141	101,444	102,586	119	12.1	252	109,425
Mit.	22.5	34.1	84.4	199	0.89	1.53	43.2	44.7	1.44	11.2	12.7	1,141	98,685	99,827	118	12.1	252	106,639
% Reduced	_	_	_	_	_	_	_	_	_	_	_	_	3%	3%	< 0.5%	< 0.5%	_	3%
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unmit.	12.6	24.9	90.6	122	0.86	1.43	43.2	44.6	1.37	11.2	12.6	1,141	98,819	99,960	119	12.2	6.54	106,588
Mit.	12.6	24.9	90.6	122	0.86	1.43	43.2	44.6	1.37	11.2	12.6	1,141	96,060	97,201	119	12.2	6.54	103,802
% Reduced	_	_	_	_	_	_	_	_	_	_	_	_	3%	3%	< 0.5%	< 0.5%	_	3%

Average Daily (Max)	_	_	_	_	_	_	-	_	_	_	_	_	_	_	_	_	_	_
Unmit.	17.2	29.2	88.5	151	0.87	1.48	43.0	44.5	1.41	11.2	12.6	1,141	99,481	100,622	119	12.2	109	107,337
Mit.	17.2	29.2	88.5	151	0.87	1.48	43.0	44.5	1.41	11.2	12.6	1,141	96,722	97,863	119	12.1	109	104,551
% Reduced	_	_	_	_	_	_	_	_	_	_	_	_	3%	3%	< 0.5%	< 0.5%	_	3%
Annual (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unmit.	3.13	5.32	16.1	27.5	0.16	0.27	7.86	8.13	0.26	2.04	2.30	189	16,470	16,659	19.7	2.02	18.0	17,771
Mit.	3.13	5.32	16.1	27.5	0.16	0.27	7.86	8.13	0.26	2.04	2.30	189	16,013	16,202	19.6	2.01	18.0	17,310
% Reduced	_	_	_	_	_	_	_	_	_	_	_	_	3%	3%	< 0.5%	< 0.5%	_	3%

2.5. Operations Emissions by Sector, Unmitigated

Sector	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Mobile	13.0	10.6	82.2	145	0.87	1.30	43.2	44.5	1.24	11.2	12.4	_	91,576	91,576	2.06	10.7	252	95,061
Area	9.30	23.4	0.44	52.3	< 0.005	0.09	_	0.09	0.07	_	0.07	_	215	215	0.01	< 0.005	_	216
Energy	0.20	0.10	1.79	1.51	0.01	0.14	_	0.14	0.14	_	0.14	_	9,147	9,147	1.32	0.14	_	9,222
Water	_	_	_	_	_	_	_	_	_	_	_	533	506	1,039	54.7	1.31	_	2,796
Waste	_	_	_	_	_	_	_	_	_	_	_	609	0.00	609	60.8	0.00	_	2,130
Total	22.5	34.1	84.4	199	0.89	1.53	43.2	44.7	1.44	11.2	12.7	1,141	101,444	102,586	119	12.1	252	109,425
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Mobile	12.4	9.98	88.8	121	0.85	1.30	43.2	44.5	1.24	11.2	12.4	_	89,165	89,165	2.12	10.8	6.54	92,440

Area	_	14.8	-	-	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Energy	0.20	0.10	1.79	1.51	0.01	0.14	_	0.14	0.14	_	0.14	_	9,147	9,147	1.32	0.14	_	9,222
Water	_	_	_	_	_	_	_	_	_	_	<u> </u>	533	506	1,039	54.7	1.31	_	2,796
Waste	_	_	_	_	_	_	_	_	_	_	_	609	0.00	609	60.8	0.00	_	2,130
Total	12.6	24.9	90.6	122	0.86	1.43	43.2	44.6	1.37	11.2	12.6	1,141	98,819	99,960	119	12.2	6.54	106,588
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Mobile	12.4	10.0	86.5	123	0.85	1.30	43.0	44.3	1.24	11.2	12.4	_	89,722	89,722	2.09	10.7	109	93,083
Area	4.58	19.0	0.22	25.8	< 0.005	0.05	_	0.05	0.03	_	0.03	_	106	106	< 0.005	< 0.005	_	106
Energy	0.20	0.10	1.79	1.51	0.01	0.14	_	0.14	0.14	_	0.14	_	9,147	9,147	1.32	0.14	_	9,222
Water	_	_	_	_	_	_	_	_	_	_	_	533	506	1,039	54.7	1.31	_	2,796
Waste	_	_	_	_	_	_	_	_	_	_	_	609	0.00	609	60.8	0.00	_	2,130
Total	17.2	29.2	88.5	151	0.87	1.48	43.0	44.5	1.41	11.2	12.6	1,141	99,481	100,622	119	12.2	109	107,337
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Mobile	2.26	1.83	15.8	22.5	0.16	0.24	7.86	8.09	0.23	2.04	2.26	_	14,854	14,854	0.35	1.78	18.0	15,411
Area	0.84	3.47	0.04	4.70	< 0.005	0.01	_	0.01	0.01	_	0.01		17.5	17.5	< 0.005	< 0.005	_	17.6
Energy	0.04	0.02	0.33	0.27	< 0.005	0.02	_	0.02	0.02	_	0.02	_	1,514	1,514	0.22	0.02	_	1,527
Water	_	_	_	_	_	_	_	_	_	_	_	88.2	83.8	172	9.05	0.22	_	463
Waste	_	_	_	_	_	_	_	_	_	_	_	101	0.00	101	10.1	0.00	_	353
Total	3.13	5.32	16.1	27.5	0.16	0.27	7.86	8.13	0.26	2.04	2.30	189	16,470	16,659	19.7	2.02	18.0	17,771

2.6. Operations Emissions by Sector, Mitigated

Sector	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Mobile	13.0	10.6	82.2	145	0.87	1.30	43.2	44.5	1.24	11.2	12.4	_	91,576	91,576	2.06	10.7	252	95,061

Area	9.30	23.4	0.44	52.3	< 0.005	0.09	_	0.09	0.07		0.07	_	215	215	0.01	< 0.005	_	216
Energy	0.20	0.10	1.79	1.51	0.01	0.14	_	0.14	0.14	_	0.14	_	6,388	6,388	0.88	0.09	_	6,436
Water	_	_	_	<u> </u>	_	_	_	_	_	_	_	533	506	1,039	54.7	1.31	_	2,796
Waste	_	_	_	_	_	_	_	_	_	_	_	609	0.00	609	60.8	0.00	_	2,130
Total	22.5	34.1	84.4	199	0.89	1.53	43.2	44.7	1.44	11.2	12.7	1,141	98,685	99,827	118	12.1	252	106,639
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Mobile	12.4	9.98	88.8	121	0.85	1.30	43.2	44.5	1.24	11.2	12.4	_	89,165	89,165	2.12	10.8	6.54	92,440
Area	_	14.8	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Energy	0.20	0.10	1.79	1.51	0.01	0.14	<u> </u>	0.14	0.14	_	0.14	_	6,388	6,388	0.88	0.09	_	6,436
Water	_	_	_	_	_	_	<u> </u>	_	_	_	_	533	506	1,039	54.7	1.31	_	2,796
Waste	_	_	_	_	_	_	_	_	_	_	_	609	0.00	609	60.8	0.00	_	2,130
Total	12.6	24.9	90.6	122	0.86	1.43	43.2	44.6	1.37	11.2	12.6	1,141	96,060	97,201	119	12.2	6.54	103,802
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Mobile	12.4	10.0	86.5	123	0.85	1.30	43.0	44.3	1.24	11.2	12.4	_	89,722	89,722	2.09	10.7	109	93,083
Area	4.58	19.0	0.22	25.8	< 0.005	0.05	_	0.05	0.03	_	0.03	_	106	106	< 0.005	< 0.005	_	106
Energy	0.20	0.10	1.79	1.51	0.01	0.14	_	0.14	0.14	_	0.14	_	6,388	6,388	0.88	0.09	_	6,436
Water	_	_	_	_	_	_	_	_	_	_	_	533	506	1,039	54.7	1.31	_	2,796
Waste	_	_	_	_	_	_	_	_	_	_	_	609	0.00	609	60.8	0.00	_	2,130
Total	17.2	29.2	88.5	151	0.87	1.48	43.0	44.5	1.41	11.2	12.6	1,141	96,722	97,863	119	12.1	109	104,551
Annual	_	_		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Mobile	2.26	1.83	15.8	22.5	0.16	0.24	7.86	8.09	0.23	2.04	2.26	_	14,854	14,854	0.35	1.78	18.0	15,411
Area	0.84	3.47	0.04	4.70	< 0.005	0.01	_	0.01	0.01	_	0.01	_	17.5	17.5	< 0.005	< 0.005	_	17.6
Energy	0.04	0.02	0.33	0.27	< 0.005	0.02	_	0.02	0.02	_	0.02	_	1,058	1,058	0.15	0.01	_	1,066
Water	_	_	_	_	_	_	_	_	_	_	_	88.2	83.8	172	9.05	0.22	_	463
Waste	_	_	_	_	_	_	_	_	_	_	_	101	0.00	101	10.1	0.00	_	353
Total	3.13	5.32	16.1	27.5	0.16	0.27	7.86	8.13	0.26	2.04	2.30	189	16,013	16,202	19.6	2.01	18.0	17,310

3. Construction Emissions Details

3.1. Site Preparation (2024) - Unmitigated

Location	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.70	3.61	37.4	0.07	0.14	_	0.14	0.14	_	0.14	_	7,375	7,375	0.30	0.06	_	7,400
Dust From Material Movemen	<u> </u>	_	-	_	-	_	19.7	19.7	_	10.1	10.1	_	-	_		_	_	_
Onsite truck	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	0.00
Daily, Winter (Max)		_	_	_	_	_	_	_		_	_	_	_	_	_	_	_	_
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.03	0.17	1.74	< 0.005	0.01	_	0.01	0.01	_	0.01	_	343	343	0.01	< 0.005	_	345
Dust From Material Movemen	t	_	_	_	_	_	0.92	0.92	_	0.47	0.47	_	_	_	_	_	_	_
Onsite truck	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	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.01	0.03	0.32	< 0.005	< 0.005	-	< 0.005	< 0.005	_	< 0.005	_	56.9	56.9	< 0.005	< 0.005	_	57.1

Dust From Material Movemen	_	_	_	_	_	_	0.17	0.17	_	0.09	0.09	_	_	_	_		_	_
Onsite truck	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	0.00
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.09	0.08	0.05	1.00	0.00	0.00	0.15	0.15	0.00	0.03	0.03	_	165	165	0.01	0.01	0.66	168
Vendor	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	0.00
Hauling	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	0.00
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	_	7.13	7.13	< 0.005	< 0.005	0.01	7.24
Vendor	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	0.00
Hauling	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	0.00
Annual	_	_	_	_	_	_	<u> </u>	_	_	_	_	_	_	_	_	_	_	_
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	_	1.18	1.18	< 0.005	< 0.005	< 0.005	1.20
Vendor	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	0.00
Hauling	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	0.00

3.2. Site Preparation (2024) - Mitigated

Location	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

																	_	
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.70	3.61	37.4	0.07	0.14	_	0.14	0.14	_	0.14	-	7,375	7,375	0.30	0.06	_	7,400
Dust From Material Movemen	_	_	-	-	_	_	7.67	7.67	_	3.94	3.94	_	_	_	_	_	_	_
Onsite truck	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	0.00
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	-	_	_
Off-Road Equipmen		0.03	0.17	1.74	< 0.005	0.01	_	0.01	0.01	_	0.01	-	343	343	0.01	< 0.005	_	345
Dust From Material Movemen	_	_	-	-	_	_	0.36	0.36	_	0.18	0.18	_	_	_	_	_	_	_
Onsite truck	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	0.00
Annual	_	_	_		_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.01	0.03	0.32	< 0.005	< 0.005	-	< 0.005	< 0.005	-	< 0.005	-	56.9	56.9	< 0.005	< 0.005	-	57.1
Dust From Material Movemen		_		_	_	_	0.07	0.07	_	0.03	0.03	_	_	_	_	_	_	_
Onsite truck	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	0.00
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

Daily, Summer (Max)	_	_	_	_	_	_	_	_	_		_	_	_	_	_	_	_	_
Worker	0.09	0.08	0.05	1.00	0.00	0.00	0.15	0.15	0.00	0.03	0.03	_	165	165	0.01	0.01	0.66	168
Vendor	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	0.00
Hauling	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	0.00
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	_	7.13	7.13	< 0.005	< 0.005	0.01	7.24
Vendor	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	0.00
Hauling	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	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	_	1.18	1.18	< 0.005	< 0.005	< 0.005	1.20
Vendor	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	0.00
Hauling	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	0.00

3.3. Phase 1 - Site Finishing (2025) - Unmitigated

Location	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	_	<u> </u>	_	_		_	_	_	_	_	<u> </u>	<u> </u>	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.47	3.88	15.9	0.02	0.11	_	0.11	0.11	_	0.11	_	2,678	2,678	0.11	0.02	_	2,687

Dust From Material Movement	_	_			_	_	0.53	0.53		0.06	0.06	_	_	_	_	_	_	_
Onsite truck	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	0.00
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipment		0.47	3.88	15.9	0.02	0.11	_	0.11	0.11	_	0.11	_	2,678	2,678	0.11	0.02	_	2,687
Dust From Material Movement	_	_	-	_	_	_	0.53	0.53	_	0.06	0.06	_	-	_	_	_	_	_
Onsite truck	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	0.00
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipment		0.05	0.45	1.83	< 0.005	0.01	_	0.01	0.01	_	0.01	-	308	308	0.01	< 0.005	_	309
Dust From Material Movement	_	_			_	_	0.06	0.06	_	0.01	0.01	_	-	_	_	_	_	_
Onsite truck	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	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_		_	_	_	_
Off-Road Equipment		0.01	0.08	0.33	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	-	51.0	51.0	< 0.005	< 0.005	-	51.2
Dust From Material Movement		_		_	_	_	0.01	0.01	_	< 0.005	< 0.005	_	_	_	_	_	_	_
Onsite truck	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	0.00

Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	<u> </u>	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_		_	_	_	_	_	_	_	
Worker	0.07	0.06	0.04	0.78	0.00	0.00	0.13	0.13	0.00	0.03	0.03	_	139	139	0.01	0.01	0.52	141
Vendor	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	0.00
Hauling	0.14	0.08	4.02	0.96	0.02	0.06	0.89	0.95	0.06	0.24	0.31	_	3,361	3,361	0.07	0.52	8.14	3,526
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.06	0.06	0.06	0.62	0.00	0.00	0.13	0.13	0.00	0.03	0.03	_	125	125	< 0.005	0.01	0.01	127
Vendor	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	0.00
Hauling	0.13	0.05	4.30	0.98	0.02	0.06	0.89	0.95	0.06	0.24	0.31	_	3,363	3,363	0.07	0.52	0.21	3,521
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.01	0.01	0.01	0.07	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	_	14.8	14.8	< 0.005	< 0.005	0.03	15.0
Vendor	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	0.00
Hauling	0.02	0.01	0.48	0.11	< 0.005	0.01	0.10	0.11	0.01	0.03	0.04	_	387	387	0.01	0.06	0.40	405
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	_	2.45	2.45	< 0.005	< 0.005	< 0.005	2.48
Vendor	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	0.00
Hauling	< 0.005	< 0.005	0.09	0.02	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	_	64.1	64.1	< 0.005	0.01	0.07	67.1

3.4. Phase 1 - Site Finishing (2025) - Mitigated

Location	TOG	ROG	NOx	СО	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	<u> </u>	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

Off-Road Equipmen		0.47	3.88	15.9	0.02	0.11	_	0.11	0.11	_	0.11	_	2,678	2,678	0.11	0.02	_	2,687
Dust From Material Movemen	<u>—</u>	_	_	_	_	_	0.21	0.21	_	0.02	0.02	_	_	_	-	_	_	_
Onsite truck	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	0.00
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.47	3.88	15.9	0.02	0.11	_	0.11	0.11	_	0.11	_	2,678	2,678	0.11	0.02	_	2,687
Dust From Material Movemen		-	-	_	_	-	0.21	0.21	_	0.02	0.02	-	_	-	-	_	_	-
Onsite truck	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	0.00
Average Daily	_	-	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.05	0.45	1.83	< 0.005	0.01	_	0.01	0.01	_	0.01	_	308	308	0.01	< 0.005	_	309
Dust From Material Movemen	<u></u>	_	-	_	_	_	0.02	0.02	_	< 0.005	< 0.005	_	_	_	-	_	_	_
Onsite truck	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	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.01	0.08	0.33	< 0.005	< 0.005	_	< 0.005	< 0.005	-	< 0.005	-	51.0	51.0	< 0.005	< 0.005	_	51.2
Dust From Material Movemen			-	_	_	_	< 0.005	< 0.005	_	< 0.005	< 0.005	_	_		-	_	_	_

Onsite truck	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	0.00
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	-	_	_	_	_	_	_	_
Worker	0.07	0.06	0.04	0.78	0.00	0.00	0.13	0.13	0.00	0.03	0.03	_	139	139	0.01	0.01	0.52	141
Vendor	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	0.00
Hauling	0.14	0.08	4.02	0.96	0.02	0.06	0.89	0.95	0.06	0.24	0.31	_	3,361	3,361	0.07	0.52	8.14	3,526
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.06	0.06	0.06	0.62	0.00	0.00	0.13	0.13	0.00	0.03	0.03	_	125	125	< 0.005	0.01	0.01	127
Vendor	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	0.00
Hauling	0.13	0.05	4.30	0.98	0.02	0.06	0.89	0.95	0.06	0.24	0.31	_	3,363	3,363	0.07	0.52	0.21	3,521
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.01	0.01	0.01	0.07	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	_	14.8	14.8	< 0.005	< 0.005	0.03	15.0
Vendor	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	0.00
Hauling	0.02	0.01	0.48	0.11	< 0.005	0.01	0.10	0.11	0.01	0.03	0.04	_	387	387	0.01	0.06	0.40	405
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	_	2.45	2.45	< 0.005	< 0.005	< 0.005	2.48
Vendor	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	0.00
Hauling	< 0.005	< 0.005	0.09	0.02	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	_	64.1	64.1	< 0.005	0.01	0.07	67.1

3.5. Phase 2 - Site Finishing (2026) - Unmitigated

Location	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.46	3.84	15.9	0.02	0.11	_	0.11	0.10	_	0.10	_	2,679	2,679	0.11	0.02	-	2,688
Dust From Material Movement		_	-	-	_	_	0.53	0.53	_	0.06	0.06	_	_	_	_	_	_	_
Onsite truck	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	0.00
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.07	0.58	2.39	< 0.005	0.02	_	0.02	0.02	_	0.02	_	404	404	0.02	< 0.005	_	405
Dust From Material Movement	_	_	-	-	_	_	0.08	0.08	_	0.01	0.01	_	_	_	_	_	_	_
Onsite truck	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	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.01	0.11	0.44	< 0.005	< 0.005	-	< 0.005	< 0.005	-	< 0.005	-	66.8	66.8	< 0.005	< 0.005	-	67.1
Dust From Material Movement		_	_	_	_	_	0.01	0.01	_	< 0.005	< 0.005	_	_	_	_	_	_	_
Onsite truck	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	0.00
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.06	0.06	0.04	0.72	0.00	0.00	0.13	0.13	0.00	0.03	0.03	_	136	136	< 0.005	< 0.005	0.47	138
Vendor	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	0.00
Hauling	0.21	0.09	5.95	1.43	0.03	0.10	1.35	1.45	0.10	0.37	0.47	_	5,009	5,009	0.08	0.79	11.7	5,258
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.01	0.01	0.01	0.09	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	_	19.0	19.0	< 0.005	< 0.005	0.03	19.2
Vendor	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	0.00
Hauling	0.03	0.01	0.93	0.22	0.01	0.01	0.20	0.22	0.01	0.06	0.07	_	755	755	0.01	0.12	0.76	792
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	_	3.14	3.14	< 0.005	< 0.005	0.01	3.19
Vendor	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	0.00
Hauling	0.01	< 0.005	0.17	0.04	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	_	125	125	< 0.005	0.02	0.13	131

3.6. Phase 2 - Site Finishing (2026) - Mitigated

Location	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	_	<u> </u>	_	_		_	_	_	_	_	<u> </u>	<u> </u>	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.46	3.84	15.9	0.02	0.11	_	0.11	0.10	_	0.10	_	2,679	2,679	0.11	0.02	_	2,688

Dust From Material Movemen	<u> </u>	_	_	_	_	_	0.21	0.21	_	0.02	0.02	_	_	_	_	_	_	_
Onsite truck	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	0.00
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.07	0.58	2.39	< 0.005	0.02	_	0.02	0.02	_	0.02	_	404	404	0.02	< 0.005	_	405
Dust From Material Movemen		_	_	_	_	_	0.03	0.03	_	< 0.005	< 0.005	_	-	-	_	_	_	_
Onsite truck	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	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.01	0.11	0.44	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	66.8	66.8	< 0.005	< 0.005	-	67.1
Dust From Material Movemen	_	_	_	-	_	_	0.01	0.01	_	< 0.005	< 0.005	_	-	-	_	_	_	_
Onsite truck	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	0.00
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	-	_	_	_	_	_	_	_	_	_	_	_	_	-	_	_	_
Worker	0.06	0.06	0.04	0.72	0.00	0.00	0.13	0.13	0.00	0.03	0.03	_	136	136	< 0.005	< 0.005	0.47	138
Vendor	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	0.00
	0.21		5.95															

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Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.01	0.01	0.01	0.09	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	_	19.0	19.0	< 0.005	< 0.005	0.03	19.2
Vendor	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	0.00
Hauling	0.03	0.01	0.93	0.22	0.01	0.01	0.20	0.22	0.01	0.06	0.07	_	755	755	0.01	0.12	0.76	792
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	_	3.14	3.14	< 0.005	< 0.005	0.01	3.19
Vendor	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	0.00
Hauling	0.01	< 0.005	0.17	0.04	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	_	125	125	< 0.005	0.02	0.13	131

3.7. Grading (2024) - Unmitigated

Location		ROG	NOx	СО	SO2			PM10T	PM2.5E			BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		2.08	11.4	103	0.19	0.43	_	0.43	0.43	_	0.43	_	20,137	20,137	0.82	0.16	_	20,206
Dust From Material Movemen	<u> </u>	_	_	_	_	_	13.5	13.5	_	4.12	4.12	_	_	_	_	_	_	_
Onsite truck	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	0.00
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

Off-Road Equipmen		2.08	11.4	103	0.19	0.43	_	0.43	0.43	_	0.43	_	20,137	20,137	0.82	0.16	_	20,206
Dust From Material Movemen		_	_	-	_	-	13.5	13.5	-	4.12	4.12	_	_	_	_	_	-	-
Onsite truck	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	0.00
Average Daily	_	_	_	_	-	_	_	_	_	_	_	-	_	_	_	_	_	_
Off-Road Equipmen		0.71	3.92	35.4	0.06	0.15	_	0.15	0.15	_	0.15	-	6,896	6,896	0.28	0.06	_	6,920
Dust From Material Movemen		_	_	-	_	-	4.62	4.62	-	1.41	1.41	_	_	_	_	_	_	_
Onsite truck	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	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.13	0.72	6.46	0.01	0.03	-	0.03	0.03	_	0.03	-	1,142	1,142	0.05	0.01	_	1,146
Dust From Material Movemen		_	_		_		0.84	0.84	-	0.26	0.26	_	_	_	_	_	_	_
Onsite truck	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	0.00
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	-	_	_	_
Worker	0.23	0.21	0.14	2.56	0.00	0.00	0.38	0.38	0.00	0.09	0.09	_	425	425	0.02	0.02	1.70	432
Vendor	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	0.00
Hauling	0.17	0.10	5.28	1.25	0.03	0.08	1.13	1.21	0.08	0.31	0.39	_	4,355	4,355	0.09	0.69	10.5	4,573

Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	-	_	_	_	_	_	_
Worker	0.20	0.18	0.18	2.02	0.00	0.00	0.38	0.38	0.00	0.09	0.09	-	384	384	0.02	0.02	0.04	390
Vendor	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	0.00
Hauling	0.17	0.10	5.63	1.25	0.03	0.08	1.13	1.21	0.08	0.31	0.39	-	4,357	4,357	0.09	0.69	0.27	4,565
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.07	0.06	0.06	0.71	0.00	0.00	0.13	0.13	0.00	0.03	0.03	-	135	135	0.01	0.01	0.25	137
Vendor	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	0.00
Hauling	0.06	0.03	1.89	0.43	0.01	0.03	0.39	0.41	0.03	0.11	0.13	-	1,492	1,492	0.03	0.24	1.54	1,564
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.01	0.01	0.01	0.13	0.00	0.00	0.02	0.02	0.00	0.01	0.01	_	22.3	22.3	< 0.005	< 0.005	0.04	22.7
Vendor	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	0.00
Hauling	0.01	0.01	0.34	0.08	< 0.005	0.01	0.07	0.08	0.01	0.02	0.02	_	247	247	0.01	0.04	0.26	259

3.8. Grading (2024) - Mitigated

Location	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		2.08	11.4	103	0.19	0.43	_	0.43	0.43	_	0.43	_	20,137	20,137	0.82	0.16	_	20,206
Dust From Material Movemen	_	_	_	_	_	_	5.26	5.26	_	1.61	1.61	_	_	_	_	_	_	_
Onsite truck	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	0.00

Dailu																		
Daily, Winter (Max)	_		_				_	_		_								
Off-Road Equipmen		2.08	11.4	103	0.19	0.43	_	0.43	0.43	_	0.43	_	20,137	20,137	0.82	0.16	_	20,206
Dust From Material Movemen	<u>—</u>	_	_	_	_	_	5.26	5.26	_	1.61	1.61	_	_	_	_	_	_	_
Onsite truck	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	0.00
Average Daily	_	_	_	_	_	_	_	_	_	_	_	-	_	_	_	_	_	_
Off-Road Equipmen		0.71	3.92	35.4	0.06	0.15	-	0.15	0.15	_	0.15	-	6,896	6,896	0.28	0.06	_	6,920
Dust From Material Movemen	_	-	-	_	_	-	1.80	1.80	-	0.55	0.55	_	_	-	_	-	-	-
Onsite truck	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	0.00
Annual	_	_	_	_	_	_	_	<u> </u>	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.13	0.72	6.46	0.01	0.03	_	0.03	0.03	_	0.03	-	1,142	1,142	0.05	0.01	_	1,146
Dust From Material Movemen				_	_	_	0.33	0.33		0.10	0.10	_	_	_		_	_	_
Onsite truck	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	0.00
Offsite	_	_	_	_	_	_	_	-	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	-	_	-	_	_	_	_	-	_	_	_	_	_	-	_	_
Worker	0.23	0.21	0.14	2.56	0.00	0.00	0.38	0.38	0.00	0.09	0.09	_	425	425	0.02	0.02	1.70	432

Vendor	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	0.00
Hauling	0.17	0.10	5.28	1.25	0.03	0.08	1.13	1.21	0.08	0.31	0.39	_	4,355	4,355	0.09	0.69	10.5	4,573
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.20	0.18	0.18	2.02	0.00	0.00	0.38	0.38	0.00	0.09	0.09	_	384	384	0.02	0.02	0.04	390
Vendor	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	0.00
Hauling	0.17	0.10	5.63	1.25	0.03	0.08	1.13	1.21	0.08	0.31	0.39	_	4,357	4,357	0.09	0.69	0.27	4,565
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.07	0.06	0.06	0.71	0.00	0.00	0.13	0.13	0.00	0.03	0.03	_	135	135	0.01	0.01	0.25	137
Vendor	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	0.00
Hauling	0.06	0.03	1.89	0.43	0.01	0.03	0.39	0.41	0.03	0.11	0.13	_	1,492	1,492	0.03	0.24	1.54	1,564
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.01	0.01	0.01	0.13	0.00	0.00	0.02	0.02	0.00	0.01	0.01	-	22.3	22.3	< 0.005	< 0.005	0.04	22.7
Vendor	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	0.00
Hauling	0.01	0.01	0.34	0.08	< 0.005	0.01	0.07	0.08	0.01	0.02	0.02	_	247	247	0.01	0.04	0.26	259

3.9. Off-site Grading (2024) - Unmitigated

Location	TOG	ROG	NOx	СО	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		1.18	8.15	51.6	0.09	0.26	_	0.26	0.25	_	0.25	_	9,523	9,523	0.39	0.08	_	9,556

Dust	_	_	_	_	_	_	8.14	8.14	_	3.54	3.54	_		_	_	_	_	
From Material Movemen	:																	
Onsite truck	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	0.00
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.02	0.15	0.97	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	179	179	0.01	< 0.005	_	180
Dust From Material Movemen	_	_	_	_	_	_	0.15	0.15	_	0.07	0.07	_	_	_	_	_	_	_
Onsite truck	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	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		< 0.005	0.03	0.18	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	-	29.6	29.6	< 0.005	< 0.005	_	29.7
Dust From Material Movemen	<u> </u>	_	_	-	_	_	0.03	0.03	_	0.01	0.01	_	_	_	_	_	_	_
Onsite truck	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	0.00
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	-	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.16	0.14	0.14	1.57	0.00	0.00	0.29	0.29	0.00	0.07	0.07	_	299	299	0.02	0.01	0.03	303
Vendor	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	0.00
Hauling	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	0.00

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Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	_	5.76	5.76	< 0.005	< 0.005	0.01	5.84
Vendor	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	0.00
Hauling	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	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	_	0.95	0.95	< 0.005	< 0.005	< 0.005	0.97
Vendor	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	0.00
Hauling	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	0.00

3.10. Off-site Grading (2024) - Mitigated

Location	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	-	_	_	_	_	_	_	_	_	_	_	-	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		1.18	8.15	51.6	0.09	0.26	_	0.26	0.25	_	0.25	_	9,523	9,523	0.39	0.08	_	9,556
Dust From Material Movemen	<u> </u>	_	_	_	_	_	3.18	3.18	_	1.38	1.38	_	_	_	_	_	_	_
Onsite truck	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	0.00
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.02	0.15	0.97	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	179	179	0.01	< 0.005	_	180

Dust From Material Movemen	<u> </u>	_	_	_	_	_	0.06	0.06	_	0.03	0.03	_	_	_	_	_	_	_
Onsite truck	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	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		< 0.005	0.03	0.18	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	29.6	29.6	< 0.005	< 0.005	_	29.7
Dust From Material Movemen	<u> </u>	_	_	_	_	_	0.01	0.01	_	< 0.005	< 0.005	_	_	_	_	_	_	_
Onsite truck	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	0.00
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	-	_	_	_	_	_	-	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	-	_	_	_	_	_	-	_	_	_	_	_
Worker	0.16	0.14	0.14	1.57	0.00	0.00	0.29	0.29	0.00	0.07	0.07	_	299	299	0.02	0.01	0.03	303
Vendor	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	0.00
Hauling	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	0.00
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	-
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	_	5.76	5.76	< 0.005	< 0.005	0.01	5.84
Vendor	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	0.00
Hauling	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	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_		_	_	_	_	_
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	_	0.95	0.95	< 0.005	< 0.005	< 0.005	0.97
Vendor	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	0.00

Hauling	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	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	0.00	0.00

3.11. Off-site Grading (2025) - Unmitigated

Location	TOG	ROG	NOx	СО	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		1.17	8.11	51.6	0.09	0.25	_	0.25	0.24	_	0.24	_	9,530	9,530	0.39	0.08	_	9,563
Dust From Material Movemen	<u> </u>	_	_	_	_	_	8.14	8.14	_	3.54	3.54	_	_	_	_	_	_	_
Onsite truck	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	0.00
Daily, Winter (Max)	_	_	-	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		1.17	8.11	51.6	0.09	0.25	_	0.25	0.24	_	0.24	_	9,530	9,530	0.39	0.08	_	9,563
Dust From Material Movemen		_		_	_	_	8.14	8.14	_	3.54	3.54			_	_	_	_	_
Onsite truck	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	0.00
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.96	6.65	42.3	0.07	0.20	_	0.20	0.20	_	0.20	_	7,811	7,811	0.32	0.06	_	7,837

Dust From Material Movemen	_	_	_	_	_	_	6.67	6.67	_	2.90	2.90	_	_	_	_	_	_	_
Onsite truck	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	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmer		0.17	1.21	7.71	0.01	0.04	_	0.04	0.04	_	0.04	_	1,293	1,293	0.05	0.01	_	1,298
Dust From Material Movemen		_	_	_	_	_	1.22	1.22	_	0.53	0.53	_	_	_	_	_	_	_
Onsite truck	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	0.00
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_		_	_	_	_	_
Worker	0.16	0.15	0.10	1.83	0.00	0.00	0.29	0.29	0.00	0.07	0.07	_	324	324	0.02	0.01	1.20	329
Vendor	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	0.00
Hauling	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	0.00
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.15	0.13	0.13	1.45	0.00	0.00	0.29	0.29	0.00	0.07	0.07	_	293	293	0.01	0.01	0.03	296
Vendor	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	0.00
Hauling	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	0.00
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.12	0.11	0.09	1.22	0.00	0.00	0.24	0.24	0.00	0.06	0.06	_	246	246	0.01	0.01	0.43	249
Vendor	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	0.00
Hauling	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	0.00

Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	<u> </u>	_	_	_	_
Worker	0.02	0.02	0.02	0.22	0.00	0.00	0.04	0.04	0.00	0.01	0.01	_	40.7	40.7	< 0.005	< 0.005	0.07	41.3
Vendor	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	0.00
Hauling	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	0.00

3.12. Off-site Grading (2025) - Mitigated

Location	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		1.17	8.11	51.6	0.09	0.25	_	0.25	0.24	_	0.24	_	9,530	9,530	0.39	0.08	_	9,563
Dust From Material Movemen	<u> </u>	_	_	_		_	3.18	3.18	_	1.38	1.38	_	_	_	_	_	_	_
Onsite truck	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	0.00
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		1.17	8.11	51.6	0.09	0.25	_	0.25	0.24	_	0.24	_	9,530	9,530	0.39	0.08	_	9,563
Dust From Material Movemen		_	_	_	-	_	3.18	3.18	-	1.38	1.38	_	_	_	_	_	_	_
Onsite truck	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	0.00
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

Off-Road Equipmen		0.96	6.65	42.3	0.07	0.20	_	0.20	0.20	_	0.20	_	7,811	7,811	0.32	0.06	_	7,837
Dust From Material Movemen		_	-	_	_	_	2.60	2.60	_	1.13	1.13	_	_	_	_	-	_	_
Onsite truck	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	0.00
Annual	_	_	_	_	_	_	_		_	_	_	<u> </u>		_	_	_	_	_
Off-Road Equipmen		0.17	1.21	7.71	0.01	0.04	_	0.04	0.04	_	0.04	_	1,293	1,293	0.05	0.01	_	1,298
Dust From Material Movemen	_	_	-	_	_	-	0.48	0.48	_	0.21	0.21	_	_	_	_		_	_
Onsite truck	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	0.00
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	-	_	-	_	_	_	_	_	_
Worker	0.16	0.15	0.10	1.83	0.00	0.00	0.29	0.29	0.00	0.07	0.07	_	324	324	0.02	0.01	1.20	329
Vendor	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	0.00
Hauling	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	0.00
Daily, Winter (Max)	_	_	-	_	_	-	-	-	_	_	_	_	_	_	_	-	_	_
Worker	0.15	0.13	0.13	1.45	0.00	0.00	0.29	0.29	0.00	0.07	0.07	_	293	293	0.01	0.01	0.03	296
Vendor	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	0.00
Hauling	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	0.00
Average Daily	_	_	_	_	_	_	_	_	_	_	_	-	-	_	_	_	_	_
Worker	0.12	0.11	0.09	1.22	0.00	0.00	0.24	0.24	0.00	0.06	0.06	_	246	246	0.01	0.01	0.43	249

Vendor	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	0.00
Hauling	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	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.02	0.02	0.02	0.22	0.00	0.00	0.04	0.04	0.00	0.01	0.01	_	40.7	40.7	< 0.005	< 0.005	0.07	41.3
Vendor	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	0.00
Hauling	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	0.00

3.13. Phase 1 - Building Construction (2024) - Unmitigated

	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		1.15	11.6	26.0	0.04	0.27	_	0.27	0.25	_	0.25	_	4,347	4,347	0.18	0.04	_	4,362
Onsite truck	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	0.00
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.02	0.25	0.55	< 0.005	0.01	_	0.01	0.01	_	0.01	_	91.9	91.9	< 0.005	< 0.005	_	92.2
Onsite truck	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	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		< 0.005	0.04	0.10	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	15.2	15.2	< 0.005	< 0.005	_	15.3

Onsite truck	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	0.00
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	2.24	2.04	2.07	22.7	0.00	0.00	4.24	4.24	0.00	0.99	0.99	_	4,310	4,310	0.27	0.18	0.50	4,370
Vendor	0.32	0.21	7.72	2.54	0.04	0.08	1.50	1.58	0.08	0.42	0.49	_	5,676	5,676	0.11	0.86	0.40	5,936
Hauling	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	0.00
Average Daily	_	_	_	_	_	_	_	_	_	_	_	-	-	_	-	_	_	_
Worker	0.05	0.04	0.04	0.49	0.00	0.00	0.09	0.09	0.00	0.02	0.02	_	93.4	93.4	0.01	< 0.005	0.17	94.8
Vendor	0.01	< 0.005	0.16	0.05	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	_	120	120	< 0.005	0.02	0.14	126
Hauling	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	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.01	0.01	0.01	0.09	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	_	15.5	15.5	< 0.005	< 0.005	0.03	15.7
Vendor	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	_	19.9	19.9	< 0.005	< 0.005	0.02	20.8
Hauling	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	0.00

3.14. Phase 1 - Building Construction (2024) - Mitigated

Location	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	_	<u> </u>	_	_	_	_	<u> </u>	_	_	_	<u> </u>	_	_	<u> </u>	<u> </u>	<u> </u>	_	_
Daily,	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Summer (Max)																		

Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		1.15	11.6	26.0	0.04	0.27	_	0.27	0.25	_	0.25	-	4,347	4,347	0.18	0.04	_	4,362
Onsite truck	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	0.00
Average Daily	_	_	_	_	_	_	_	_	_	_	_	-	_	_	_	_	_	_
Off-Road Equipmen		0.02	0.25	0.55	< 0.005	0.01	_	0.01	0.01	_	0.01	_	91.9	91.9	< 0.005	< 0.005	_	92.2
Onsite truck	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	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		< 0.005	0.04	0.10	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	-	15.2	15.2	< 0.005	< 0.005	_	15.3
Onsite truck	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	0.00
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	-	_	_	_	_	_	_	_	_	_	_	-
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	2.24	2.04	2.07	22.7	0.00	0.00	4.24	4.24	0.00	0.99	0.99	_	4,310	4,310	0.27	0.18	0.50	4,370
Vendor	0.32	0.21	7.72	2.54	0.04	0.08	1.50	1.58	0.08	0.42	0.49	_	5,676	5,676	0.11	0.86	0.40	5,936
Hauling	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	0.00
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.05	0.04	0.04	0.49	0.00	0.00	0.09	0.09	0.00	0.02	0.02	_	93.4	93.4	0.01	< 0.005	0.17	94.8
Vendor	0.01	< 0.005	0.16	0.05	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	_	120	120	< 0.005	0.02	0.14	126
Hauling	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	0.00

Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.01	0.01	0.01	0.09	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	_	15.5	15.5	< 0.005	< 0.005	0.03	15.7
Vendor	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	_	19.9	19.9	< 0.005	< 0.005	0.02	20.8
Hauling	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	0.00

3.15. Phase 1 - Building Construction (2025) - Unmitigated

Location	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	_	_	_	_	_	_	_	_	_	_	_	_	<u> </u>	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		1.13	11.6	26.0	0.04	0.26	_	0.26	0.24	_	0.24	_	4,347	4,347	0.18	0.04	_	4,362
Onsite truck	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	0.00
Daily, Winter (Max)	_	_	_	_	_	-	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		1.13	11.6	26.0	0.04	0.26	_	0.26	0.24	_	0.24	_	4,347	4,347	0.18	0.04	_	4,362
Onsite truck	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	0.00
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	-	_	_	_
Off-Road Equipmen		0.96	9.85	22.1	0.04	0.22	_	0.22	0.21	_	0.21	_	3,706	3,706	0.15	0.03	_	3,719
Onsite truck	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	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.18	1.80	4.04	0.01	0.04	_	0.04	0.04	_	0.04	_	614	614	0.02	< 0.005	_	616

Onsite truck	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	0.00
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	-	_	_	_	_	-	_	_	-	_	_	-	_	-	_	_
Worker	2.29	2.11	1.43	26.3	0.00	0.00	4.24	4.24	0.00	0.99	0.99	_	4,669	4,669	0.22	0.18	17.4	4,745
Vendor	0.30	0.18	6.93	2.36	0.04	0.08	1.50	1.58	0.08	0.42	0.49	_	5,576	5,576	0.11	0.83	15.3	5,840
Hauling	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	0.00
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	2.13	1.93	1.90	20.9	0.00	0.00	4.24	4.24	0.00	0.99	0.99	_	4,219	4,219	0.12	0.18	0.45	4,275
Vendor	0.28	0.17	7.39	2.41	0.04	0.08	1.50	1.58	0.08	0.42	0.49	_	5,581	5,581	0.11	0.83	0.40	5,830
Hauling	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	0.00
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	1.82	1.66	1.36	18.2	0.00	0.00	3.60	3.60	0.00	0.84	0.84	_	3,687	3,687	0.09	0.15	6.39	3,740
Vendor	0.25	0.15	6.15	2.05	0.03	0.07	1.28	1.34	0.07	0.35	0.42	_	4,755	4,755	0.09	0.70	5.64	4,973
Hauling	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	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.33	0.30	0.25	3.33	0.00	0.00	0.66	0.66	0.00	0.15	0.15	_	610	610	0.02	0.02	1.06	619
Vendor	0.04	0.03	1.12	0.37	0.01	0.01	0.23	0.25	0.01	0.06	0.08	_	787	787	0.01	0.12	0.93	823
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	<u> </u>	0.00	0.00	0.00	0.00	0.00	0.00

3.16. Phase 1 - Building Construction (2025) - Mitigated

Location	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		1.13	11.6	26.0	0.04	0.26	_	0.26	0.24	_	0.24	_	4,347	4,347	0.18	0.04	_	4,362
Onsite truck	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	0.00
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		1.13	11.6	26.0	0.04	0.26	_	0.26	0.24	_	0.24	_	4,347	4,347	0.18	0.04	_	4,362
Onsite truck	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	0.00
Average Daily	_	_	_	_	_	_	-	-	_	_	_	-	_	_	_	_	-	_
Off-Road Equipmen		0.96	9.85	22.1	0.04	0.22	-	0.22	0.21	-	0.21	-	3,706	3,706	0.15	0.03	-	3,719
Onsite truck	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	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.18	1.80	4.04	0.01	0.04	_	0.04	0.04	_	0.04	-	614	614	0.02	< 0.005	_	616
Onsite truck	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	0.00
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	-	-	_	_	_	_	_	_	_	_	_	-
Worker	2.29	2.11	1.43	26.3	0.00	0.00	4.24	4.24	0.00	0.99	0.99	_	4,669	4,669	0.22	0.18	17.4	4,745
Vendor	0.30	0.18	6.93	2.36	0.04	0.08	1.50	1.58	0.08	0.42	0.49	_	5,576	5,576	0.11	0.83	15.3	5,840
Hauling	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	0.00

Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	-	_	_	_	-
Worker	2.13	1.93	1.90	20.9	0.00	0.00	4.24	4.24	0.00	0.99	0.99	_	4,219	4,219	0.12	0.18	0.45	4,275
Vendor	0.28	0.17	7.39	2.41	0.04	0.08	1.50	1.58	0.08	0.42	0.49	-	5,581	5,581	0.11	0.83	0.40	5,830
Hauling	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	0.00
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	1.82	1.66	1.36	18.2	0.00	0.00	3.60	3.60	0.00	0.84	0.84	_	3,687	3,687	0.09	0.15	6.39	3,740
Vendor	0.25	0.15	6.15	2.05	0.03	0.07	1.28	1.34	0.07	0.35	0.42	_	4,755	4,755	0.09	0.70	5.64	4,973
Hauling	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	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.33	0.30	0.25	3.33	0.00	0.00	0.66	0.66	0.00	0.15	0.15	_	610	610	0.02	0.02	1.06	619
Vendor	0.04	0.03	1.12	0.37	0.01	0.01	0.23	0.25	0.01	0.06	0.08	_	787	787	0.01	0.12	0.93	823
Hauling	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	0.00

3.17. Phase 2 - Building Construction (2025) - Unmitigated

Location	TOG	ROG		со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.90	9.82	22.8	0.04	0.19	_	0.19	0.18	_	0.18	_	3,835	3,835	0.16	0.03	_	3,848
Onsite truck	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	0.00

Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.01	0.07	0.16	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	27.0	27.0	< 0.005	< 0.005	_	27.1
Onsite truck	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	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		< 0.005	0.01	0.03	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	4.47	4.47	< 0.005	< 0.005	_	4.49
Onsite truck	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	0.00
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	<u> </u>	_	-	_
Daily, Summer (Max)	_	_	_	_	_	_	-	_	_	_	_	_	-	_	-	_	_	
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	2.13	1.93	1.90	20.9	0.00	0.00	4.24	4.24	0.00	0.99	0.99	_	4,219	4,219	0.12	0.18	0.45	4,275
Vendor	0.28	0.17	7.39	2.41	0.04	0.08	1.50	1.58	0.08	0.42	0.49	_	5,581	5,581	0.11	0.83	0.40	5,830
Hauling	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	0.00
Average Daily	_	_	_	_	_	_	-	_	_	_	_	_	_	_	-	_	_	-
Worker	0.02	0.01	0.01	0.15	0.00	0.00	0.03	0.03	0.00	0.01	0.01	_	30.5	30.5	< 0.005	< 0.005	0.05	30.9
Vendor	< 0.005	< 0.005	0.05	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	_	39.3	39.3	< 0.005	0.01	0.05	41.1
Hauling	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	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	-	_	_
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	_	5.04	5.04	< 0.005	< 0.005	0.01	5.12
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	_	6.51	6.51	< 0.005	< 0.005	0.01	6.80
Hauling	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	0.00

3.18. Phase 2 - Building Construction (2025) - Mitigated

Location	TOG	ROG	NOx	co	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_		_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.90	9.82	22.8	0.04	0.19	_	0.19	0.18	_	0.18	_	3,835	3,835	0.16	0.03	_	3,848
Onsite truck	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	0.00
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.01	0.07	0.16	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	27.0	27.0	< 0.005	< 0.005	_	27.1
Onsite truck	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	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		< 0.005	0.01	0.03	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	4.47	4.47	< 0.005	< 0.005	_	4.49
Onsite truck	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	0.00
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

Worker	2.13	1.93	1.90	20.9	0.00	0.00	4.24	4.24	0.00	0.99	0.99	_	4,219	4,219	0.12	0.18	0.45	4,275
Vendor	0.28	0.17	7.39	2.41	0.04	0.08	1.50	1.58	0.08	0.42	0.49	_	5,581	5,581	0.11	0.83	0.40	5,830
Hauling	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	0.00
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.02	0.01	0.01	0.15	0.00	0.00	0.03	0.03	0.00	0.01	0.01	_	30.5	30.5	< 0.005	< 0.005	0.05	30.9
Vendor	< 0.005	< 0.005	0.05	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	_	39.3	39.3	< 0.005	0.01	0.05	41.1
Hauling	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	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	_	5.04	5.04	< 0.005	< 0.005	0.01	5.12
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	_	6.51	6.51	< 0.005	< 0.005	0.01	6.80
Hauling	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	0.00

3.19. Phase 2 - Building Construction (2026) - Unmitigated

			,	<i>y</i> ,, <i>y</i> .		,		,										
Location	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	всо2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	_	_	_	_	_	_	_	_	_	_	<u> </u>	_	_	<u> </u>	<u> </u>	<u> </u>	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.89	9.77	22.7	0.04	0.18	_	0.18	0.17	_	0.17	_	3,834	3,834	0.16	0.03	_	3,848
Onsite truck	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	0.00
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.89	9.77	22.7	0.04	0.18	_	0.18	0.17	_	0.17	_	3,834	3,834	0.16	0.03	_	3,848

Onsite truck	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	0.00
Average Daily	-	-	_	-	_	-	-	-	-	_	-	-	_	_	-	_	_	_
Off-Road Equipmer		0.48	5.34	12.4	0.02	0.10	_	0.10	0.09	_	0.09	-	2,098	2,098	0.09	0.02	_	2,105
Onsite truck	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	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmer		0.09	0.98	2.27	< 0.005	0.02	_	0.02	0.02	_	0.02	-	347	347	0.01	< 0.005	_	349
Onsite truck	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	0.00
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	-	_	_	_	_	_	-	_
Worker	2.14	1.98	1.27	24.3	0.00	0.00	4.24	4.24	0.00	0.99	0.99	_	4,571	4,571	0.09	0.17	15.7	4,638
Vendor	0.29	0.17	6.63	2.23	0.04	0.08	1.50	1.58	0.08	0.42	0.49	_	5,476	5,476	0.11	0.83	13.4	5,738
Hauling	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	0.00
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	-	_	_	_
Worker	2.02	1.83	1.60	19.2	0.00	0.00	4.24	4.24	0.00	0.99	0.99	_	4,132	4,132	0.11	0.18	0.41	4,188
Vendor	0.28	0.17	7.06	2.31	0.04	0.08	1.50	1.58	0.08	0.42	0.49	_	5,480	5,480	0.11	0.83	0.35	5,729
Hauling	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	0.00
Average Daily	-	-	_	-	_	_	_	_	-	_	_	-	_	-	-	_	-	-
Worker	1.10	1.00	0.79	10.8	0.00	0.00	2.31	2.31	0.00	0.54	0.54	_	2,317	2,317	0.05	0.10	3.71	2,351
Vendor	0.16	0.10	3.78	1.24	0.02	0.04	0.82	0.86	0.04	0.23	0.27	_	2,997	2,997	0.06	0.45	3.18	3,136
Hauling	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	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

Worker	0.20	0.18	0.14	1.97	0.00	0.00	0.42	0.42	0.00	0.10	0.10	_	384	384	0.01	0.02	0.61	389
Vendor	0.03	0.02	0.69	0.23	< 0.005	0.01	0.15	0.16	0.01	0.04	0.05	_	496	496	0.01	0.07	0.53	519
Hauling	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	0.00

3.20. Phase 2 - Building Construction (2026) - Mitigated

Location	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.89	9.77	22.7	0.04	0.18	_	0.18	0.17	_	0.17	_	3,834	3,834	0.16	0.03	_	3,848
Onsite truck	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	0.00
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_		_	_	_	_	_	
Off-Road Equipmen		0.89	9.77	22.7	0.04	0.18	_	0.18	0.17	_	0.17	_	3,834	3,834	0.16	0.03	_	3,848
Onsite truck	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	0.00
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	-	_
Off-Road Equipmen		0.48	5.34	12.4	0.02	0.10	_	0.10	0.09	_	0.09	_	2,098	2,098	0.09	0.02	_	2,105
Onsite truck	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	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.09	0.98	2.27	< 0.005	0.02	_	0.02	0.02	_	0.02	_	347	347	0.01	< 0.005	_	349

Onsite truck	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	0.00
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	-	_	_	_	_
Worker	2.14	1.98	1.27	24.3	0.00	0.00	4.24	4.24	0.00	0.99	0.99	_	4,571	4,571	0.09	0.17	15.7	4,638
Vendor	0.29	0.17	6.63	2.23	0.04	0.08	1.50	1.58	0.08	0.42	0.49	_	5,476	5,476	0.11	0.83	13.4	5,738
Hauling	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	0.00
Daily, Winter (Max)	-	_	_	_	_	_	_	-	_	_	_	-	_	_	_	_	_	_
Worker	2.02	1.83	1.60	19.2	0.00	0.00	4.24	4.24	0.00	0.99	0.99	_	4,132	4,132	0.11	0.18	0.41	4,188
Vendor	0.28	0.17	7.06	2.31	0.04	0.08	1.50	1.58	0.08	0.42	0.49	_	5,480	5,480	0.11	0.83	0.35	5,729
Hauling	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	0.00
Average Daily	_	_	_	_	-	_	_	_	_	_	_	-	-	_	_	_	_	_
Worker	1.10	1.00	0.79	10.8	0.00	0.00	2.31	2.31	0.00	0.54	0.54	_	2,317	2,317	0.05	0.10	3.71	2,351
Vendor	0.16	0.10	3.78	1.24	0.02	0.04	0.82	0.86	0.04	0.23	0.27	_	2,997	2,997	0.06	0.45	3.18	3,136
Hauling	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	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.20	0.18	0.14	1.97	0.00	0.00	0.42	0.42	0.00	0.10	0.10	_	384	384	0.01	0.02	0.61	389
Vendor	0.03	0.02	0.69	0.23	< 0.005	0.01	0.15	0.16	0.01	0.04	0.05	_	496	496	0.01	0.07	0.53	519
Hauling	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	0.00

3.21. Off-site Paving (2025) - Unmitigated

Location	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

D-ili.																		
Daily, Summer (Max)										_								
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.39	2.38	10.6	0.01	0.10	_	0.10	0.10	_	0.10	_	1,511	1,511	0.06	0.01	_	1,517
Paving	_	3.44	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Onsite truck	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	0.00
Average Daily	_	_	_	_	_	_	_	_	_	-	_	_	_	_	_	-	_	_
Off-Road Equipmen		0.05	0.31	1.39	< 0.005	0.01	_	0.01	0.01	-	0.01	_	199	199	0.01	< 0.005	_	199
Paving	_	0.45	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Onsite truck	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	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.01	0.06	0.25	< 0.005	< 0.005	_	< 0.005	< 0.005	-	< 0.005	-	32.9	32.9	< 0.005	< 0.005	_	33.0
Paving	_	0.08	_	_	_	_	_	_	_	_	_	-	_	_	_	_	_	_
Onsite truck	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	0.00
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	-	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.06	0.06	0.06	0.62	0.00	0.00	0.13	0.13	0.00	0.03	0.03	_	125	125	< 0.005	0.01	0.01	127
Vendor	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	0.00

Hauling	0.03	0.01	1.07	0.25	0.01	0.02	0.22	0.24	0.02	0.06	0.08	_	841	841	0.02	0.13	0.05	880
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.01	0.01	0.01	0.08	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	_	16.9	16.9	< 0.005	< 0.005	0.03	17.1
Vendor	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	0.00
Hauling	< 0.005	< 0.005	0.14	0.03	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	_	111	111	< 0.005	0.02	0.12	116
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	_	2.80	2.80	< 0.005	< 0.005	< 0.005	2.84
Vendor	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	0.00
Hauling	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	_	18.3	18.3	< 0.005	< 0.005	0.02	19.2

3.22. Off-site Paving (2025) - Mitigated

Ontona	- Circitoni	(1.07 0.01	,	<i>y</i> ,, <i>y</i> .		,	J. 1 J J (.	io, cicky .c.	J,	, ,	J							
Location	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.39	2.38	10.6	0.01	0.10	_	0.10	0.10	_	0.10	_	1,511	1,511	0.06	0.01	_	1,517
Paving	_	3.44	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Onsite truck	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	0.00
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.05	0.31	1.39	< 0.005	0.01	_	0.01	0.01	_	0.01	_	199	199	0.01	< 0.005	_	199

Paving	_	0.45	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Onsite truck	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	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.01	0.06	0.25	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	32.9	32.9	< 0.005	< 0.005	_	33.0
Paving	_	0.08	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Onsite truck	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	0.00
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	-
Worker	0.06	0.06	0.06	0.62	0.00	0.00	0.13	0.13	0.00	0.03	0.03	_	125	125	< 0.005	0.01	0.01	127
Vendor	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	0.00
Hauling	0.03	0.01	1.07	0.25	0.01	0.02	0.22	0.24	0.02	0.06	0.08	_	841	841	0.02	0.13	0.05	880
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.01	0.01	0.01	0.08	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	_	16.9	16.9	< 0.005	< 0.005	0.03	17.1
Vendor	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	0.00
Hauling	< 0.005	< 0.005	0.14	0.03	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	_	111	111	< 0.005	0.02	0.12	116
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	_	2.80	2.80	< 0.005	< 0.005	< 0.005	2.84
Vendor	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	0.00
Hauling	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	_	18.3	18.3	< 0.005	< 0.005	0.02	19.2

3.23. Off-site Improvements (2025) - Unmitigated

Location	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	_	<u> </u>	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.75	4.06	36.5	0.06	0.17	_	0.17	0.16	_	0.16	_	6,152	6,152	0.25	0.05	_	6,173
Onsite truck	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	0.00
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.75	4.06	36.5	0.06	0.17	_	0.17	0.16	_	0.16	_	6,152	6,152	0.25	0.05	_	6,173
Onsite truck	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	0.00
Average Daily	_	_	_	-	_	_	-	_	_	_	_	_	_	_	_	-	_	_
Off-Road Equipmen		0.33	1.81	16.3	0.03	0.08	_	0.08	0.07	_	0.07	-	2,747	2,747	0.11	0.02	_	2,757
Onsite truck	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	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.06	0.33	2.97	< 0.005	0.01	_	0.01	0.01	_	0.01	_	455	455	0.02	< 0.005	_	456
Onsite truck	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	0.00
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.14	0.13	0.08	1.56	0.00	0.00	0.25	0.25	0.00	0.06	0.06	_	278	278	0.01	0.01	1.03	282

Vendor	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	0.00
Hauling	0.03	0.02	0.92	0.22	0.01	0.01	0.20	0.22	0.01	0.06	0.07	_	770	770	0.02	0.12	1.87	808
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.13	0.11	0.11	1.24	0.00	0.00	0.25	0.25	0.00	0.06	0.06	_	251	251	0.01	0.01	0.03	254
Vendor	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	0.00
Hauling	0.03	0.01	0.99	0.22	0.01	0.01	0.20	0.22	0.01	0.06	0.07	_	771	771	0.02	0.12	0.05	807
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.06	0.05	0.04	0.57	0.00	0.00	0.11	0.11	0.00	0.03	0.03	_	115	115	< 0.005	< 0.005	0.20	116
Vendor	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	0.00
Hauling	0.01	0.01	0.43	0.10	< 0.005	0.01	0.09	0.10	0.01	0.02	0.03	_	344	344	0.01	0.05	0.36	361
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.01	0.01	0.01	0.10	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	_	19.0	19.0	< 0.005	< 0.005	0.03	19.3
Vendor	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	0.00
Hauling	< 0.005	< 0.005	0.08	0.02	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	_	57.0	57.0	< 0.005	0.01	0.06	59.7

3.24. Off-site Improvements (2025) - Mitigated

Location	TOG	ROG		СО	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.75	4.06	36.5	0.06	0.17	_	0.17	0.16	_	0.16	_	6,152	6,152	0.25	0.05	_	6,173
Onsite truck	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	0.00

Daily, Winter (Max)		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	-
Off-Road Equipmen		0.75	4.06	36.5	0.06	0.17	_	0.17	0.16	_	0.16	_	6,152	6,152	0.25	0.05	-	6,173
Onsite truck	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	0.00
Average Daily	_	_	_	_	_	_	_	_	_	_	_	-	_	_	-	_	_	_
Off-Road Equipmen		0.33	1.81	16.3	0.03	0.08	_	0.08	0.07	_	0.07	-	2,747	2,747	0.11	0.02	_	2,757
Onsite truck	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	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.06	0.33	2.97	< 0.005	0.01	_	0.01	0.01	_	0.01	_	455	455	0.02	< 0.005	-	456
Onsite truck	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	0.00
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	-	_	_	-	_	_
Worker	0.14	0.13	0.08	1.56	0.00	0.00	0.25	0.25	0.00	0.06	0.06	_	278	278	0.01	0.01	1.03	282
Vendor	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	0.00
Hauling	0.03	0.02	0.92	0.22	0.01	0.01	0.20	0.22	0.01	0.06	0.07	_	770	770	0.02	0.12	1.87	808
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.13	0.11	0.11	1.24	0.00	0.00	0.25	0.25	0.00	0.06	0.06	_	251	251	0.01	0.01	0.03	254
Vendor	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	0.00
Hauling	0.03	0.01	0.99	0.22	0.01	0.01	0.20	0.22	0.01	0.06	0.07	_	771	771	0.02	0.12	0.05	807
Average Daily		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

Worker	0.06	0.05	0.04	0.57	0.00	0.00	0.11	0.11	0.00	0.03	0.03	_	115	115	< 0.005	< 0.005	0.20	116
Vendor	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	0.00
Hauling	0.01	0.01	0.43	0.10	< 0.005	0.01	0.09	0.10	0.01	0.02	0.03	_	344	344	0.01	0.05	0.36	361
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.01	0.01	0.01	0.10	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	_	19.0	19.0	< 0.005	< 0.005	0.03	19.3
Vendor	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	0.00
Hauling	< 0.005	< 0.005	0.08	0.02	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	_	57.0	57.0	< 0.005	0.01	0.06	59.7

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

Land Use	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unrefrige rated Warehou se-No Rail	13.0	10.6	82.2	145	0.87	1.30	43.2	44.5	1.24	11.2	12.4	_	91,576	91,576	2.06	10.7	252	95,061
Other Asphalt Surfaces	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	0.00
Total	13.0	10.6	82.2	145	0.87	1.30	43.2	44.5	1.24	11.2	12.4	_	91,576	91,576	2.06	10.7	252	95,061
Daily, Winter (Max)	_	_	_	_		_	_	_	_	_	_	_	_	_	_	_	_	_

Unrefrige rated	12.4	9.98	88.8	121	0.85	1.30	43.2	44.5	1.24	11.2	12.4	_	89,165	89,165	2.12	10.8	6.54	92,440
Other Asphalt Surfaces	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	0.00
Total	12.4	9.98	88.8	121	0.85	1.30	43.2	44.5	1.24	11.2	12.4	_	89,165	89,165	2.12	10.8	6.54	92,440
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unrefrige rated Warehou se-No Rail	2.26	1.83	15.8	22.5	0.16	0.24	7.86	8.09	0.23	2.04	2.26	_	14,854	14,854	0.35	1.78	18.0	15,411
Other Asphalt Surfaces	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	0.00
Total	2.26	1.83	15.8	22.5	0.16	0.24	7.86	8.09	0.23	2.04	2.26	_	14,854	14,854	0.35	1.78	18.0	15,411

4.1.2. Mitigated

Land Use	TOG	ROG		СО	SO2	PM10E		PM10T	PM2.5E		PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unrefrige rated Warehou se-No Rail	13.0	10.6	82.2	145	0.87	1.30	43.2	44.5	1.24	11.2	12.4	_	91,576	91,576	2.06	10.7	252	95,061
Other Asphalt Surfaces	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	0.00
Total	13.0	10.6	82.2	145	0.87	1.30	43.2	44.5	1.24	11.2	12.4	_	91,576	91,576	2.06	10.7	252	95,061

Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unrefrige rated Warehou se-No Rail	12.4	9.98	88.8	121	0.85	1.30	43.2	44.5	1.24	11.2	12.4	_	89,165	89,165	2.12	10.8	6.54	92,440
Other Asphalt Surfaces	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	0.00
Total	12.4	9.98	88.8	121	0.85	1.30	43.2	44.5	1.24	11.2	12.4	_	89,165	89,165	2.12	10.8	6.54	92,440
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unrefrige rated Warehou se-No Rail	2.26	1.83	15.8	22.5	0.16	0.24	7.86	8.09	0.23	2.04	2.26	_	14,854	14,854	0.35	1.78	18.0	15,411
Other Asphalt Surfaces	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	0.00
Total	2.26	1.83	15.8	22.5	0.16	0.24	7.86	8.09	0.23	2.04	2.26	_	14,854	14,854	0.35	1.78	18.0	15,411

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

• • • • • • • • • • • • • • • • • • • •		(,	,	<i>y</i> ,, <i>y</i> .		,		o, e.e., .e.	C.C,	, ,	J J. J. J. J. J							
Land Use	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
(Max)																		

Unrefrige rated Warehou se-No	_	_	_	_	_	_	_	_	_	_	_	_	7,008	7,008	1.13	0.14	_	7,077
Other Asphalt Surfaces	_	_	_	_	_	_	_	_	_	_	_	_	0.00	0.00	0.00	0.00	_	0.00
Total	_	_	_	_	_	_	_	_	_	_	_	_	7,008	7,008	1.13	0.14	_	7,077
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unrefrige rated Warehou se-No Rail	_	_	_	_	_	_	_	_	_	_	_	_	7,008	7,008	1.13	0.14	_	7,077
Other Asphalt Surfaces	_	_	-	_	_	_	_	_	_	_	_	_	0.00	0.00	0.00	0.00	_	0.00
Total	_	_	_	_	_	_	_	_	_	_	_	_	7,008	7,008	1.13	0.14	_	7,077
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unrefrige rated Warehou se-No Rail	_	_	_	_	_	_	_	_	_	_	_	_	1,160	1,160	0.19	0.02	_	1,172
Other Asphalt Surfaces	_	_	_	_	_	_	_	_	_	_	_	_	0.00	0.00	0.00	0.00	_	0.00
Total	_	_	<u> </u>	_	_	_	_	_	_	_	_	_	1,160	1,160	0.19	0.02	_	1,172

4.2.2. Electricity Emissions By Land Use - Mitigated

		(, 5.5.	,	<i>y</i> , <i>y</i> .		,		,,	J. J. J.	, ,	J							
Land	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Use																		

Daily, Summer (Max)			_	_		_	_	_	_	_	_	_	_	_	_	_	_	_
Unrefrige rated Warehou se-No Rail	_	_	_	_	_	_	_		_	_		_	4,249	4,249	0.69	0.08	_	4,291
Other Asphalt Surfaces	_	_	_	_	_	_	_	_	_	_	_	_	0.00	0.00	0.00	0.00	_	0.00
Total	_	_	_	_	_	_	_	_	_	_	_	_	4,249	4,249	0.69	0.08	_	4,291
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	-	_	_	_	_	_
Unrefrige rated Warehou se-No Rail	_	_	_	_	_	_	_	_	_	_	_	_	4,249	4,249	0.69	0.08	_	4,291
Other Asphalt Surfaces	_	_	_	_	_	_	_	_	_	_	_	_	0.00	0.00	0.00	0.00	_	0.00
Total	_	_	_	_	_	_	_	_	_	_	_	_	4,249	4,249	0.69	0.08	_	4,291
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unrefrige rated Warehou se-No Rail		_	_	_	_	_	_	_	_	_	_	_	703	703	0.11	0.01	_	710
Other Asphalt Surfaces	_	_	_	_	_	_	_	_	_	_	_	_	0.00	0.00	0.00	0.00	_	0.00
Total	_	_	_	_	_	_	_	_	_	_	_	_	703	703	0.11	0.01	_	710

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Land Use	TOG	ROG	NOx	СО	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	-	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unrefrige rated Warehou se-No Rail	0.20	0.10	1.79	1.51	0.01	0.14	_	0.14	0.14	_	0.14	_	2,139	2,139	0.19	< 0.005	_	2,145
Other Asphalt Surfaces	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
Total	0.20	0.10	1.79	1.51	0.01	0.14	_	0.14	0.14	_	0.14	_	2,139	2,139	0.19	< 0.005	_	2,145
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unrefrige rated Warehou se-No Rail	0.20	0.10	1.79	1.51	0.01	0.14	_	0.14	0.14	_	0.14	_	2,139	2,139	0.19	< 0.005	_	2,145
Other Asphalt Surfaces	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
Total	0.20	0.10	1.79	1.51	0.01	0.14	_	0.14	0.14	_	0.14	_	2,139	2,139	0.19	< 0.005	_	2,145
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	<u> </u>	_	_
Unrefrige rated Warehou se-No Rail	0.04	0.02	0.33	0.27	< 0.005	0.02	_	0.02	0.02	_	0.02	_	354	354	0.03	< 0.005	_	355

Other Asphalt Surfaces	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
Total	0.04	0.02	0.33	0.27	< 0.005	0.02	_	0.02	0.02	_	0.02	_	354	354	0.03	< 0.005	_	355

4.2.4. Natural Gas Emissions By Land Use - Mitigated

O		110 (1.07 0.0	,	,,,		,	000	io, day io		,	a							
Land Use	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unrefrige rated Warehou se-No Rail	0.20	0.10	1.79	1.51	0.01	0.14	_	0.14	0.14	_	0.14	_	2,139	2,139	0.19	< 0.005	_	2,145
Other Asphalt Surfaces	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
Total	0.20	0.10	1.79	1.51	0.01	0.14	_	0.14	0.14	_	0.14	_	2,139	2,139	0.19	< 0.005	_	2,145
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unrefrige rated Warehou se-No Rail	0.20	0.10	1.79	1.51	0.01	0.14	_	0.14	0.14	_	0.14	_	2,139	2,139	0.19	< 0.005	_	2,145
Other Asphalt Surfaces	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
Total	0.20	0.10	1.79	1.51	0.01	0.14	_	0.14	0.14	_	0.14	_	2,139	2,139	0.19	< 0.005	_	2,145
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

Unrefrige Warehous Rail		0.02	0.33	0.27	< 0.005	0.02	_	0.02	0.02	_	0.02	_	354	354	0.03	< 0.005	_	355
Other Asphalt Surfaces	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
Total	0.04	0.02	0.33	0.27	< 0.005	0.02	_	0.02	0.02	_	0.02	_	354	354	0.03	< 0.005	_	355

4.3. Area Emissions by Source

4.3.1. Unmitigated

Source	TOG	ROG	NOx	СО	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	СО2Т	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Consum er Products	_	13.1	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Architect ural Coatings	_	1.74	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Landsca pe Equipme nt	9.30	8.58	0.44	52.3	< 0.005	0.09	_	0.09	0.07	_	0.07	_	215	215	0.01	< 0.005	_	216
Total	9.30	23.4	0.44	52.3	< 0.005	0.09	_	0.09	0.07	_	0.07	_	215	215	0.01	< 0.005	_	216
Daily, Winter (Max)	_	_	_					_	_	_	_	_	_	_	_	_	_	_
Consum er Products	_	13.1	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

Architect ural	_	1.74	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	14.8	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Consum er Products	_	2.39	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Architect ural Coatings	_	0.32	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Landsca pe Equipme nt	0.84	0.77	0.04	4.70	< 0.005	0.01	_	0.01	0.01	_	0.01	_	17.5	17.5	< 0.005	< 0.005	_	17.6
Total	0.84	3.47	0.04	4.70	< 0.005	0.01	_	0.01	0.01	_	0.01	_	17.5	17.5	< 0.005	< 0.005	_	17.6

4.3.2. Mitigated

Source	TOG	ROG	NOx	СО	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Consum er Products	_	13.1	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Architect ural Coatings	_	1.74	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Landsca pe Equipme nt	9.30	8.58	0.44	52.3	< 0.005	0.09	_	0.09	0.07	_	0.07	_	215	215	0.01	< 0.005	_	216
Total	9.30	23.4	0.44	52.3	< 0.005	0.09	_	0.09	0.07	_	0.07	_	215	215	0.01	< 0.005	_	216

Daily, Winter (Max)	_	_	_	_	_	_	_		_	_	_	_	_	_	_	_	_	_
Consum er Products	_	13.1	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Architect ural Coatings	_	1.74	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	14.8	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Consum er Products	_	2.39	_	_	_	_	_	-	_	_	_	_	_	_	_	_	_	_
Architect ural Coatings	_	0.32	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Landsca pe Equipme nt	0.84	0.77	0.04	4.70	< 0.005	0.01	_	0.01	0.01	_	0.01	_	17.5	17.5	< 0.005	< 0.005	_	17.6
Total	0.84	3.47	0.04	4.70	< 0.005	0.01	_	0.01	0.01	_	0.01	_	17.5	17.5	< 0.005	< 0.005	_	17.6

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

Land Use	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

Unrefrige rated Warehou Rail	_	_	_	_	_	_	_	_	_	_	_	533	506	1,039	54.7	1.31	_	2,796
Other Asphalt Surfaces		_	_	_	_	_	_	_	_	_	_	0.00	0.00	0.00	0.00	0.00	_	0.00
Total	_	_	_	_	_	_	_	_	_	_	_	533	506	1,039	54.7	1.31	_	2,796
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unrefrige rated Warehou se-No Rail	_	-	_	_	_	_	_	_	_	_	_	533	506	1,039	54.7	1.31	_	2,796
Other Asphalt Surfaces	_	_	_	_	_	_	_	_	_	_	_	0.00	0.00	0.00	0.00	0.00	_	0.00
Total	_	_	_	_	_	_	_	_	_	_	_	533	506	1,039	54.7	1.31	_	2,796
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unrefrige rated Warehou se-No Rail	_	_	_	_	_	_	_	_	_	_	_	88.2	83.8	172	9.05	0.22	_	463
Other Asphalt Surfaces	_	_	_	_	_	_	_	_	_	_	_	0.00	0.00	0.00	0.00	0.00	_	0.00
Total	_		_	_	_	_	_	_	_	_	_	88.2	83.8	172	9.05	0.22	_	463

4.4.2. Mitigated

			,	<i>J</i> , <i>J</i> -			(
Land	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Use																		

Daily,	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_		_
Summer (Max)																		
Unrefrige rated Warehou se-No Rail	_	_	_	_	_	_	_	_	_	_	_	533	506	1,039	54.7	1.31		2,796
Other Asphalt Surfaces	_	_	_	_	_	_	_	_	_	_	_	0.00	0.00	0.00	0.00	0.00	_	0.00
Total	_	_	_	_	_	_	_	_	_	_	_	533	506	1,039	54.7	1.31	_	2,796
Daily, Winter (Max)	_	_	_	_	_	_	-	_	_	_	_	_	-	-	_	_	_	_
Unrefrige rated Warehou se-No Rail	_	_	_	_	_	_	_	_	_	_	_	533	506	1,039	54.7	1.31	_	2,796
Other Asphalt Surfaces	_	_	_	-	_	_	-	_	_	_	_	0.00	0.00	0.00	0.00	0.00	-	0.00
Total	_	_	_	_	_	_	_	_	_	_	_	533	506	1,039	54.7	1.31	_	2,796
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unrefrige rated Warehou se-No Rail	_	_	_	_	_	_	_	_	_	_	_	88.2	83.8	172	9.05	0.22	_	463
Other Asphalt Surfaces	_	_	_	_	_	_	_	_	_	_	_	0.00	0.00	0.00	0.00	0.00	_	0.00
Total	_	_	_	_	_	_	_	_	_	_	_	88.2	83.8	172	9.05	0.22	_	463

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

Land Use	TOG	ROG	NOx	СО	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	-	_	-	_	_	_	-	_	_	-	_	_	_	_	_
Unrefrige rated Warehou se-No Rail	_	_	_	_	_	_	_	_	_	_	_	609	0.00	609	60.8	0.00	_	2,130
Other Asphalt Surfaces	_	_	_	_	_	_	_	_	_	_	_	0.00	0.00	0.00	0.00	0.00	_	0.00
Total	_	_	_	_	_	_	_	_	_	_	_	609	0.00	609	60.8	0.00	_	2,130
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unrefrige rated Warehou se-No Rail	_	_	_	_	_	_	_	_	_	_	_	609	0.00	609	60.8	0.00	_	2,130
Other Asphalt Surfaces	_	_	_	_	_	_	_	_	_	_	_	0.00	0.00	0.00	0.00	0.00	_	0.00
Total	_	_	_	_	_	_	_	_	_	_	_	609	0.00	609	60.8	0.00	_	2,130
Annual	_	_	_	1_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

Unrefrige rated Warehou se-No Rail	_	_	_	_	_	_	_	_	_	_	_	101	0.00	101	10.1	0.00	_	353
Other Asphalt Surfaces	_	_	_	_	_	_	_	_	_	_	_	0.00	0.00	0.00	0.00	0.00		0.00
Total	_	_	_	_	_	_	_	_	_	_	_	101	0.00	101	10.1	0.00	_	353

4.5.2. Mitigated

• • • • • • • • • • • • • • • • • • • •		(1.57 5.5.		<i>y</i> ,		,	· · · · · · ·			, ,								
Land Use	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	СО2Т	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unrefrige rated Warehou se-No Rail	_	_	_	_	_	_	_	_	_	_	_	609	0.00	609	60.8	0.00	_	2,130
Other Asphalt Surfaces	_	_	_	_	_	_	_	_	_	_	_	0.00	0.00	0.00	0.00	0.00	_	0.00
Total	_	_	_	_	_	_	_	_		_	_	609	0.00	609	60.8	0.00	_	2,130
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_		_
Unrefrige rated Warehou se-No Rail		_	_	_	_	_	_	_			_	609	0.00	609	60.8	0.00	_	2,130

Other Asphalt Surfaces	_	_	_	_	_	_	_	_	_	_	_	0.00	0.00	0.00	0.00	0.00	_	0.00
Total	_	_	_	_	_	_	_	_	_	_	_	609	0.00	609	60.8	0.00	_	2,130
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unrefrige rated Warehou se-No Rail				_	_	_	_	_	_	_	_	101	0.00	101	10.1	0.00	_	353
Other Asphalt Surfaces	_	_	_	_	_	_	_	_	_	_	_	0.00	0.00	0.00	0.00	0.00	_	0.00
Total	_	_	_	_	_	_	_	_	_	_	_	101	0.00	101	10.1	0.00	_	353

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

Land Use	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_		_	_	_	_	_	_	_	_	_	_	_		_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

4.6.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Ontona		(1.07 0.0.	y ron dan	iy, toinyi			٠ ٠٠ ر.	io, didiy	Gany, II	, ,	J. 11 1 J. J. J. J							
Land Use	TOG	ROG	NOx	СО	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_		_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

Equipme nt Type	TOG	ROG	NOx	со	SO2	PM10E	PM10D		PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

Total	_	_	_	_	_	_	_	_	_	_	_	_	 	_	_	_	
iotai																	

4.7.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipme nt Type	TOG	ROG	NOx	СО	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

Equipme nt Type	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	-	_	_	_
Annual	_	_	_	_	_	_	<u> </u>	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	<u> </u>	_	_	_	_	_	_	_	_	_	_	_

4.8.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipme nt Type	TOG	ROG		со				PM10T		PM2.5D		BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

Equipme nt Type	TOG	ROG	NOx	СО	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

4.9.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

		(,	<i>y</i> , <i>y</i> .		,	(.,	,							
Equipme nt Type	TOG	ROG	NOx	СО	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	<u> </u>	_	_	_	_	_	_	_	_	_		_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Vegetatio	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
n																		

Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	<u> </u>	_	_	_	<u> </u>	_	_	_	_	_
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG		СО	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	<u> </u>	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_		_	_	_	_	_
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5F	PM2 5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Орослос	100	11100	IIIOA	100	0 0 _	1	1	1 11110	I IVIL.OL	11 1112.00	11.11.2.01	1000	1.1000	0 0	0111	11120	1.5	10020

Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Avoided	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Sequest ered	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Remove d	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Avoided	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Sequest ered	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Remove d	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Avoided	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Sequest ered	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

Remove d	_	_	_	_		_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetatio n	TOG	ROG		со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_		_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_		_	_	_	_		_	_	_	_	_	_	_	_
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

4.10.5. Above and Belowground Carbon Accumulation by Land Use Type - Mitigated

Land Use	TOG	ROG		со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

Total	_	_	_	-	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Annual	_	_	_	_	_	_	_	_	_	<u> </u>	_	_	_	_	<u> </u>	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

Species	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Avoided	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal	_	_	_	_	_	_	_	_		_	_	_	_	_	_	_	_	_
Sequest ered	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal	_	_	_	_	_	_	<u> </u>	_	<u> </u>	_	_	_	_	_	_	_	_	_
Remove d	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
_	_	_	_	_	_	_	<u> </u>	_	<u> </u>	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Avoided	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Sequest ered	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Remove d	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

_	_	_	_	_	_	_	_	_	_	_	_		_	_	-	_	_	_
Annual	_	_	_	_	_	_	_	_		_	_	_	_	_	_	_	_	_
Avoided	_	_	_	_	_	_	_	_	<u> </u>	_	<u> </u>	_	_	<u> </u>	_	_	<u> </u>	_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Sequest ered	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Remove d	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Site Preparation	Site Preparation	7/8/2024	7/26/2024	6.00	17.0	Site Preparation
Phase 1 - Site Finishing	Site Preparation	9/29/2025	11/16/2025	6.00	42.0	Site Finishing (Phase 1)
Phase 2 - Site Finishing	Site Preparation	5/18/2026	7/20/2026	6.00	55.0	Site Finishing (Phase 2)
Grading	Grading	7/29/2024	12/20/2024	6.00	125	Grading
Off-site Grading	Grading	12/24/2024	12/15/2025	6.00	306	Off-Site Grading
Phase 1 - Building Construction	Building Construction	12/23/2024	12/29/2025	6.00	319	Building Construction (Phase 1)
Phase 2 - Building Construction	Building Construction	12/29/2025	8/21/2026	6.00	203	Building Construction (Phase 2)
Off-site Paving	Paving	10/21/2025	12/15/2025	6.00	48.0	Off-Site Paving
Off-site Improvements	Trenching	4/14/2025	10/20/2025	6.00	163	Off-site Improvements

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Site Preparation	Rubber Tired Dozers	Diesel	Tier 4 Final	3.00	8.00	367	0.40
Site Preparation	Tractors/Loaders/Backh oes	Diesel	Tier 4 Final	2.00	8.00	84.0	0.37
Site Preparation	Off-Highway Trucks	Diesel	Tier 4 Final	2.00	8.00	376	0.38
Phase 1 - Site Finishing	Tractors/Loaders/Backh oes	Diesel	Tier 4 Final	1.00	8.00	84.0	0.37
Phase 1 - Site Finishing	Skid Steer Loaders	Diesel	Tier 4 Final	1.00	8.00	71.0	0.37
Phase 1 - Site Finishing	Trenchers	Diesel	Average	1.00	8.00	40.0	0.50
Phase 1 - Site Finishing	Off-Highway Trucks	Diesel	Tier 4 Final	1.00	8.00	376	0.38
Phase 1 - Site Finishing	Graders	Diesel	Tier 4 Final	1.00	8.00	148	0.41
Phase 1 - Site Finishing	Plate Compactors	Diesel	Average	1.00	8.00	8.00	0.43
Phase 2 - Site Finishing	Tractors/Loaders/Backh oes	Diesel	Tier 4 Final	1.00	8.00	84.0	0.37
Phase 2 - Site Finishing	Skid Steer Loaders	Diesel	Tier 4 Final	1.00	8.00	71.0	0.37
Phase 2 - Site Finishing	Trenchers	Diesel	Average	1.00	8.00	40.0	0.50
Phase 2 - Site Finishing	Off-Highway Trucks	Diesel	Tier 4 Final	1.00	8.00	376	0.38
Phase 2 - Site Finishing	Graders	Diesel	Tier 4 Final	1.00	8.00	148	0.41
Phase 2 - Site Finishing	Plate Compactors	Diesel	Average	1.00	8.00	8.00	0.43
Grading	Graders	Diesel	Tier 4 Final	1.00	8.00	148	0.41
Grading	Excavators	Diesel	Average	2.00	8.00	36.0	0.38
Grading	Tractors/Loaders/Backh oes	Diesel	Tier 4 Final	2.00	8.00	84.0	0.37
Grading	Scrapers	Diesel	Tier 4 Final	6.00	8.00	423	0.48
Grading	Rubber Tired Dozers	Diesel	Tier 4 Final	1.00	8.00	367	0.40
Grading	Off-Highway Trucks	Diesel	Tier 4 Final	4.00	8.00	376	0.38

Grading	Other Construction Equipment	Diesel	Tier 4 Final	2.00	8.00	82.0	0.42
Off-site Grading	Graders	Diesel	Tier 4 Final	1.00	8.00	148	0.41
Off-site Grading	Excavators	Diesel	Average	3.00	8.00	36.0	0.38
Off-site Grading	Tractors/Loaders/Backh oes	Diesel	Tier 4 Final	3.00	8.00	84.0	0.37
Off-site Grading	Scrapers	Diesel	Tier 4 Final	1.00	8.00	423	0.48
Off-site Grading	Rubber Tired Dozers	Diesel	Tier 4 Final	1.00	8.00	367	0.40
Off-site Grading	Forklifts	Diesel	Tier 4 Final	1.00	8.00	82.0	0.20
Off-site Grading	Off-Highway Trucks	Diesel	Tier 4 Final	3.00	8.00	376	0.38
Off-site Grading	Skid Steer Loaders	Diesel	Tier 4 Final	1.00	8.00	71.0	0.37
Phase 1 - Building Construction	Forklifts	Diesel	Tier 4 Final	6.00	8.00	82.0	0.20
Phase 1 - Building Construction	Generator Sets	Diesel	Average	4.00	8.00	14.0	0.74
Phase 1 - Building Construction	Cranes	Diesel	Tier 4 Final	1.00	7.00	367	0.29
Phase 1 - Building Construction	Welders	Diesel	Average	1.00	8.00	46.0	0.45
Phase 1 - Building Construction	Tractors/Loaders/Backh oes	Diesel	Tier 4 Final	3.00	7.00	84.0	0.37
Phase 1 - Building Construction	Aerial Lifts	Diesel	Average	8.00	8.00	46.0	0.31
Phase 2 - Building Construction	Forklifts	Diesel	Tier 4 Final	4.00	8.00	82.0	0.20
Phase 2 - Building Construction	Generator Sets	Diesel	Average	2.00	8.00	14.0	0.74
Phase 2 - Building Construction	Cranes	Diesel	Tier 4 Final	1.00	7.00	367	0.29
Phase 2 - Building Construction	Welders	Diesel	Average	1.00	8.00	46.0	0.45

Phase 2 - Building Construction	Tractors/Loaders/Backh oes	Diesel	Tier 4 Final	3.00	7.00	84.0	0.37
Phase 2 - Building Construction	Aerial Lifts	Diesel	Average	8.00	8.00	46.0	0.31
Off-site Paving	Pavers	Diesel	Tier 4 Final	2.00	8.00	81.0	0.42
Off-site Paving	Paving Equipment	Diesel	Tier 4 Final	2.00	8.00	89.0	0.36
Off-site Paving	Rollers	Diesel	Average	2.00	8.00	36.0	0.38
Off-site Improvements	Forklifts	Diesel	Tier 4 Final	1.00	8.00	82.0	0.20
Off-site Improvements	Tractors/Loaders/Backh oes	Diesel	Tier 4 Final	6.00	8.00	84.0	0.37
Off-site Improvements	Off-Highway Trucks	Diesel	Tier 4 Final	1.00	8.00	376	0.38
Off-site Improvements	Graders	Diesel	Tier 4 Final	1.00	8.00	148	0.41
Off-site Improvements	Scrapers	Diesel	Tier 4 Final	1.00	8.00	423	0.48
Off-site Improvements	Sweepers/Scrubbers	Diesel	Average	1.00	8.00	36.0	0.46
Off-site Improvements	Tractors/Loaders/Backh oes	Diesel	Tier 4 Final	1.00	8.00	84.0	0.37

5.2.2. Mitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Site Preparation	Rubber Tired Dozers	Diesel	Tier 4 Final	3.00	8.00	367	0.40
Site Preparation	Tractors/Loaders/Backh oes	Diesel	Tier 4 Final	2.00	8.00	84.0	0.37
Site Preparation	Off-Highway Trucks	Diesel	Tier 4 Final	2.00	8.00	376	0.38
Phase 1 - Site Finishing	Tractors/Loaders/Backh oes	Diesel	Tier 4 Final	1.00	8.00	84.0	0.37
Phase 1 - Site Finishing	Skid Steer Loaders	Diesel	Tier 4 Final	1.00	8.00	71.0	0.37
Phase 1 - Site Finishing	Trenchers	Diesel	Average	1.00	8.00	40.0	0.50
Phase 1 - Site Finishing	Off-Highway Trucks	Diesel	Tier 4 Final	1.00	8.00	376	0.38
Phase 1 - Site Finishing	Graders	Diesel	Tier 4 Final	1.00	8.00	148	0.41

Phase 1 - Site Finishing	Plate Compactors	Diesel	Average	1.00	8.00	8.00	0.43
Phase 2 - Site Finishing	Tractors/Loaders/Backh oes	Diesel	Tier 4 Final	1.00	8.00	84.0	0.37
Phase 2 - Site Finishing	Skid Steer Loaders	Diesel	Tier 4 Final	1.00	8.00	71.0	0.37
Phase 2 - Site Finishing	Trenchers	Diesel	Average	1.00	8.00	40.0	0.50
Phase 2 - Site Finishing	Off-Highway Trucks	Diesel	Tier 4 Final	1.00	8.00	376	0.38
Phase 2 - Site Finishing	Graders	Diesel	Tier 4 Final	1.00	8.00	148	0.41
Phase 2 - Site Finishing	Plate Compactors	Diesel	Average	1.00	8.00	8.00	0.43
Grading	Graders	Diesel	Tier 4 Final	1.00	8.00	148	0.41
Grading	Excavators	Diesel	Average	2.00	8.00	36.0	0.38
Grading	Tractors/Loaders/Backh oes	Diesel	Tier 4 Final	2.00	8.00	84.0	0.37
Grading	Scrapers	Diesel	Tier 4 Final	6.00	8.00	423	0.48
Grading	Rubber Tired Dozers	Diesel	Tier 4 Final	1.00	8.00	367	0.40
Grading	Off-Highway Trucks	Diesel	Tier 4 Final	4.00	8.00	376	0.38
Grading	Other Construction Equipment	Diesel	Tier 4 Final	2.00	8.00	82.0	0.42
Off-site Grading	Graders	Diesel	Tier 4 Final	1.00	8.00	148	0.41
Off-site Grading	Excavators	Diesel	Average	3.00	8.00	36.0	0.38
Off-site Grading	Tractors/Loaders/Backh oes	Diesel	Tier 4 Final	3.00	8.00	84.0	0.37
Off-site Grading	Scrapers	Diesel	Tier 4 Final	1.00	8.00	423	0.48
Off-site Grading	Rubber Tired Dozers	Diesel	Tier 4 Final	1.00	8.00	367	0.40
Off-site Grading	Forklifts	Diesel	Tier 4 Final	1.00	8.00	82.0	0.20
Off-site Grading	Off-Highway Trucks	Diesel	Tier 4 Final	3.00	8.00	376	0.38
Off-site Grading	Skid Steer Loaders	Diesel	Tier 4 Final	1.00	8.00	71.0	0.37
Phase 1 - Building Construction	Forklifts	Diesel	Tier 4 Final	6.00	8.00	82.0	0.20
Phase 1 - Building Construction	Generator Sets	Diesel	Average	4.00	8.00	14.0	0.74

Phase 1 - Building	Cranes	Diesel	Tier 4 Final	1.00	7.00	367	0.29
Construction							
Phase 1 - Building Construction	Welders	Diesel	Average	1.00	8.00	46.0	0.45
Phase 1 - Building Construction	Tractors/Loaders/Backh oes	Diesel	Tier 4 Final	3.00	7.00	84.0	0.37
Phase 1 - Building Construction	Aerial Lifts	Diesel	Average	8.00	8.00	46.0	0.31
Phase 2 - Building Construction	Forklifts	Diesel	Tier 4 Final	4.00	8.00	82.0	0.20
Phase 2 - Building Construction	Generator Sets	Diesel	Average	2.00	8.00	14.0	0.74
Phase 2 - Building Construction	Cranes	Diesel	Tier 4 Final	1.00	7.00	367	0.29
Phase 2 - Building Construction	Welders	Diesel	Average	1.00	8.00	46.0	0.45
Phase 2 - Building Construction	Tractors/Loaders/Backh oes	Diesel	Tier 4 Final	3.00	7.00	84.0	0.37
Phase 2 - Building Construction	Aerial Lifts	Diesel	Average	8.00	8.00	46.0	0.31
Off-site Paving	Pavers	Diesel	Tier 4 Final	2.00	8.00	81.0	0.42
Off-site Paving	Paving Equipment	Diesel	Tier 4 Final	2.00	8.00	89.0	0.36
Off-site Paving	Rollers	Diesel	Average	2.00	8.00	36.0	0.38
Off-site Improvements	Forklifts	Diesel	Tier 4 Final	1.00	8.00	82.0	0.20
Off-site Improvements	Tractors/Loaders/Backh oes	Diesel	Tier 4 Final	6.00	8.00	84.0	0.37
Off-site Improvements	Off-Highway Trucks	Diesel	Tier 4 Final	1.00	8.00	376	0.38
Off-site Improvements	Graders	Diesel	Tier 4 Final	1.00	8.00	148	0.41
Off-site Improvements	Scrapers	Diesel	Tier 4 Final	1.00	8.00	423	0.48
Off-site Improvements	Sweepers/Scrubbers	Diesel	Average	1.00	8.00	36.0	0.46
Off-site Improvements	Tractors/Loaders/Backh oes	Diesel	Tier 4 Final	1.00	8.00	84.0	0.37

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Site Preparation	_	_	_	_
Site Preparation	Worker	17.5	11.9	LDA,LDT1,LDT2
Site Preparation	Vendor	_	9.10	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	_	_	HHDT
Grading	_	_	_	_
Grading	Worker	45.0	11.9	LDA,LDT1,LDT2
Grading	Vendor	_	9.10	HHDT,MHDT
Grading	Hauling	61.0	20.0	HHDT
Grading	Onsite truck	_	_	HHDT
Phase 1 - Building Construction	_	_	_	_
Phase 1 - Building Construction	Worker	505	11.9	LDA,LDT1,LDT2
Phase 1 - Building Construction	Vendor	197	9.10	HHDT,MHDT
Phase 1 - Building Construction	Hauling	0.00	20.0	HHDT
Phase 1 - Building Construction	Onsite truck	_	_	HHDT
Phase 1 - Site Finishing	_	_	_	_
Phase 1 - Site Finishing	Worker	15.0	11.9	LDA,LDT1,LDT2
Phase 1 - Site Finishing	Vendor	_	9.10	HHDT,MHDT
Phase 1 - Site Finishing	Hauling	48.0	20.0	HHDT
Phase 1 - Site Finishing	Onsite truck	_	_	HHDT
Phase 2 - Site Finishing	_	_	_	_
Phase 2 - Site Finishing	Worker	15.0	11.9	LDA,LDT1,LDT2
Phase 2 - Site Finishing	Vendor	_	9.10	HHDT,MHDT

Phase 2 - Site Finishing	Hauling	73.0	20.0	HHDT
Phase 2 - Site Finishing	Onsite truck	_	_	ннот
Off-site Grading	_	_	_	_
Off-site Grading	Worker	35.0	11.9	LDA,LDT1,LDT2
Off-site Grading	Vendor	_	9.10	HHDT,MHDT
Off-site Grading	Hauling	0.00	20.0	ННОТ
Off-site Grading	Onsite truck	_	_	HHDT
Phase 2 - Building Construction	_	_	_	_
Phase 2 - Building Construction	Worker	505	11.9	LDA,LDT1,LDT2
Phase 2 - Building Construction	Vendor	197	9.10	HHDT,MHDT
Phase 2 - Building Construction	Hauling	0.00	20.0	HHDT
Phase 2 - Building Construction	Onsite truck	_	_	HHDT
Off-site Paving	_	_	_	_
Off-site Paving	Worker	15.0	11.9	LDA,LDT1,LDT2
Off-site Paving	Vendor	_	9.10	HHDT,MHDT
Off-site Paving	Hauling	12.0	20.0	HHDT
Off-site Paving	Onsite truck	_	_	HHDT
Off-site Improvements	_	_	_	_
Off-site Improvements	Worker	30.0	11.9	LDA,LDT1,LDT2
Off-site Improvements	Vendor	_	9.10	HHDT,MHDT
Off-site Improvements	Hauling	11.0	20.0	HHDT
Off-site Improvements	Onsite truck	_	_	HHDT

5.3.2. Mitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Site Preparation	_	_	_	_
Site Preparation	Worker	17.5	11.9	LDA,LDT1,LDT2

Site Preparation	Vendor	_	9.10	HHDT,MHDT	
Site Preparation	Hauling	0.00	20.0	HHDT	
Site Preparation	Onsite truck	_	_	HHDT	
Grading	_	_	_	_	
Grading	Worker	45.0	11.9	LDA,LDT1,LDT2	
Grading	Vendor	_	9.10	HHDT,MHDT	
Grading	Hauling	61.0	20.0	HHDT	
Grading	Onsite truck	_	_	HHDT	
Phase 1 - Building Construction	_	_	_	_	
Phase 1 - Building Construction	Worker	505	11.9	LDA,LDT1,LDT2	
Phase 1 - Building Construction	Vendor	197	9.10	HHDT,MHDT	
Phase 1 - Building Construction	Hauling	0.00	20.0	HHDT	
Phase 1 - Building Construction	Onsite truck	_	_	HHDT	
Phase 1 - Site Finishing	_	_	_	_	
Phase 1 - Site Finishing	Worker	15.0	11.9	LDA,LDT1,LDT2	
Phase 1 - Site Finishing	Vendor	_	9.10	HHDT,MHDT	
Phase 1 - Site Finishing	Hauling	48.0	20.0	HHDT	
Phase 1 - Site Finishing	Onsite truck	_	_	HHDT	
Phase 2 - Site Finishing	_	_	_	_	
Phase 2 - Site Finishing	Worker	15.0	11.9	LDA,LDT1,LDT2	
Phase 2 - Site Finishing	Vendor	_	9.10	HHDT,MHDT	
Phase 2 - Site Finishing	Hauling	73.0	20.0	HHDT	
Phase 2 - Site Finishing	Onsite truck	_	_	HHDT	
Off-site Grading	_	_	_	_	
Off-site Grading	Worker	35.0	11.9	LDA,LDT1,LDT2	
Off-site Grading	Vendor	_	9.10	HHDT,MHDT	
Off-site Grading	Hauling	0.00	20.0	HHDT	

Off-site Grading	Onsite truck	_	_	HHDT
Phase 2 - Building Construction	_	_	_	_
Phase 2 - Building Construction	Worker	505	11.9	LDA,LDT1,LDT2
Phase 2 - Building Construction	Vendor	197	9.10	HHDT,MHDT
Phase 2 - Building Construction	Hauling	0.00	20.0	HHDT
Phase 2 - Building Construction	Onsite truck	_	_	HHDT
Off-site Paving	_	_	_	_
Off-site Paving	Worker	15.0	11.9	LDA,LDT1,LDT2
Off-site Paving	Vendor	_	9.10	HHDT,MHDT
Off-site Paving	Hauling	12.0	20.0	HHDT
Off-site Paving	Onsite truck	_	_	HHDT
Off-site Improvements	_	_	_	_
Off-site Improvements	Worker	30.0	11.9	LDA,LDT1,LDT2
Off-site Improvements	Vendor	_	9.10	HHDT,MHDT
Off-site Improvements	Hauling	11.0	20.0	HHDT
Off-site Improvements	Onsite truck	_	_	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Non-applicable. No control strategies activated by user.

5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated	Residential Exterior Area Coated	Non-Residential Interior Area	Non-Residential Exterior Area	Parking Area Coated (sq ft)
	(sq ft)	(sq ft)	Coated (sq ft)	Coated (sq ft)	

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (Cubic Yards)	Material Exported (Cubic Yards)	Acres Graded (acres)	Material Demolished (sq. ft.)	Acres Paved (acres)
Site Preparation	0.00	0.00	180	0.00	_
Phase 1 - Site Finishing	0.00	0.00	52.5	0.00	_
Phase 2 - Site Finishing	0.00	0.00	69.0	0.00	_
Grading	70,000	0.00	930	0.00	_
Off-site Grading	0.00	0.00	765	0.00	_
Off-site Paving	0.00	0.00	0.00	0.00	62.9

5.6.2. Construction Earthmoving Control Strategies

Non-applicable. No control strategies activated by user.

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Unrefrigerated Warehouse-No Rail	0.00	0%
Other Asphalt Surfaces	62.9	100%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2024	0.00	204	0.03	< 0.005
2025	0.00	204	0.03	< 0.005
2026	0.00	204	0.03	< 0.005

5.9. Operational Mobile Sources

5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Unrefrigerated Warehouse-No Rail	2,617	2,617	2,617	955,205	55,931	55,931	55,931	20,414,878
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

5.9.2. Mitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Unrefrigerated Warehouse-No Rail	2,617	2,617	2,617	955,205	55,931	55,931	55,931	20,414,878
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.1.2. Mitigated

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
0	0.00	1,802,595	600,865	164,500

5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	180

5.10.4. Landscape Equipment - Mitigated

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	180

5.11. Operational Energy Consumption

5.11.1. Unmitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Unrefrigerated Warehouse-No Rail	12,539,669	204	0.0330	0.0040	6,675,412
Other Asphalt Surfaces	0.00	204	0.0330	0.0040	0.00

5.11.2. Mitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Unrefrigerated Warehouse-No Rail	7,602,748	204	0.0330	0.0040	6,675,412
Other Asphalt Surfaces	0.00	204	0.0330	0.0040	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Unrefrigerated Warehouse-No Rail	277,900,063	0.00
Other Asphalt Surfaces	0.00	0.00

5.12.2. Mitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Unrefrigerated Warehouse-No Rail	277,900,063	0.00
Other Asphalt Surfaces	0.00	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Unrefrigerated Warehouse-No Rail	1,130	_
Other Asphalt Surfaces	0.00	_

5.13.2. Mitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Unrefrigerated Warehouse-No Rail	1,130	_
Other Asphalt Surfaces	0.00	_

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Land OSC Type	Equipment Type	rteringerant	OVVI	Quality (kg)	Operations Leak Mate	Oct vice Leak Itale	Times oci vicca

5.14.2. Mitigated

Land Harrison Towns	Electrical and the Electrical	Deficiences	OMD	Organical (Inc.)	On anythere I had Date	Ormital Last Data	Time and Committee of
Land Use Type	Equipment Type	Refrigerant	(3VVP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
	_ qap			~ · · · · · · · · · · · · · · · · · · ·	oporations boant reals	0011100 2 0011111010	

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

Equipment Type Fuel Type Engine	e Tier Number per Day	Hours Per Day	Horsepower	Load Factor
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5.15.2. Mitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor
Equipment Type	i doi typo	I valifical par Day	I louis poi buy	riours per real	1013cpowci	Load I doloi

5.16.2. Process Boilers

Equipment Type Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)
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5.17. User Defined

Equipment Type	Fuel Type
	_

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type Vegetation Soil Type Initial Acres Final Acres

5.18.1.2. Mitigated

 Vegetation Land Use Type
 Vegetation Soil Type
 Initial Acres
 Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type Initial Acres Final Acres

5.18.1.2. Mitigated

Biomass Cover Type Final Acres Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type Number Electricity Saved (kWh/year) Natural Gas Saved (btu/year)

5.18.2.2. Mitigated

Tree Type Number Electricity Saved (kWh/year) Natural Gas Saved (btu/year)

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	21.4	annual days of extreme heat

Extreme Precipitation	0.95	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	21.1	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.41 meters

Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	1	0	0	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	0	0	0	N/A
Drought	0	0	0	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	0	0	0	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	1	1	1	2
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	1	1	1	2
Drought	1	1	1	2
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	1	1	1	2

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	_
AQ-Ozone	60.9
AQ-PM	31.6
AQ-DPM	43.4
Drinking Water	52.8
Lead Risk Housing	2.00
Pesticides	76.8

Toxic Releases	24.6
Traffic	69.8
Effect Indicators	_
CleanUp Sites	20.5
Groundwater	90.9
Haz Waste Facilities/Generators	88.2
Impaired Water Bodies	0.00
Solid Waste	0.00
Sensitive Population	_
Asthma	38.8
Cardio-vascular	73.9
Low Birth Weights	51.8
Socioeconomic Factor Indicators	_
Education	32.2
Housing	13.1
Linguistic	39.8
Poverty	10.9
Unemployment	39.2

7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	_
Above Poverty	74.83639163
Employed	47.8121391
Median HI	86.88566662
Education	_

Bachelor's or higher	55.60118055
High school enrollment	26.62645964
Preschool enrollment	40.40805851
Transportation	
Auto Access	81.29090209
Active commuting	36.22481714
Social	
2-parent households	64.72475298
Voting	66.31592455
Neighborhood	
Alcohol availability	90.27332221
Park access	51.80290004
Retail density	7.327088413
Supermarket access	28.5255999
Tree canopy	47.95329142
Housing	_
Homeownership	80.99576543
Housing habitability	92.24945464
Low-inc homeowner severe housing cost burden	86.9626588
Low-inc renter severe housing cost burden	79.71256256
Uncrowded housing	69.47260362
Health Outcomes	_
Insured adults	66.05928397
Arthritis	86.1
Asthma ER Admissions	51.6
High Blood Pressure	59.0
Cancer (excluding skin)	71.8

65.7
90.3
86.1
79.4
59.9
66.4
93.4
15.0
64.8
85.5
59.8
44.0
76.2
88.3
_
38.6
56.8
54.5
_
0.0
0.0
39.2
81.9
58.2
64.0
48.3

Impervious Surface Cover	33.7
Traffic Density	70.0
Traffic Access	0.0
Other Indices	_
Hardship	46.2
Other Decision Support	_
2016 Voting	49.3

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	43.0
Healthy Places Index Score for Project Location (b)	72.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen Justification	
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b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Land Use	Land uses consistent with site plan. 103.0 acres total of Development Area.
Construction: Construction Phases	No demolition. Construction phases and phase lengths as provided by Project applicant. 6 days per week of construction activity, as provided by Project applicant. Note that two additional paving phases are included in separate CalEEMod model runs, since CalEEMod only allows one paving phase per model run.
Operations: Fleet Mix	Revised fleet mix to reflect fleet mix provided in Traffic Study (Kimley Horn, 2022). Also trip rates and VMT revised to reflect what is provided in Traffic Study (Kimley Horn, 2022). 29 mile trip length was assumed for HHD vehicles; 17.7478024 trip length (conservative assumption based on largest default CalEEMod assumed trip length value) was assumed for all other vehicles, for a weighted average trip length of 21.37224776 miles. Fleet mix is adjusted to reflect heavy-duty truck mix of 32.211% (as provided by Kimley Horn).
Operations: Consumer Products	Revised General Category consumer products emissions factor to reflect CARB adjustments applied to their Consumer and Commercial Product Survey Emission data, made after the 2008 consumer products emissions factor. Adjustment made to reflect average adjustment factor. See for further detail: https://ww2.arb.ca.gov/our-work/programs/consumer-products-program/consumer-products-emissions-inv0.0000107
Operations: Vehicle Data	Trip rates revised to reflect that the heavy-duty truck trips would average approximately 29 miles per trip. The trip distances for passenger vehicles provided by the defaults in the CalEEMod model were averaged (weighted) with the heavy-duty truck trip distance of 29 miles. This equals a weighted average travel distance of 21.37224776 miles. Trip rate is 2.17731397125136 and 2.17769382473601 per 1000 sf per day, for each of the two buildings (smaller building and larger building), respectively, consistent with what was provided by Kimley Horn.
Construction: Dust From Material Movement	Per Project Applicant, during Grading phase, up to approx. 70,000 cubic yards of soil could be imported. Acres graded represents the default CalEEMod value (note that, according to CalEEMod, "Multiple passes with grading equipment may be required to properly grade a piece of land").
Construction: Off-Road Equipment	Off-road equipment detail as provided by Project applicant.
Construction: Trips and VMT	Hauling trips as provided by Project applicant (note: adjusted upwards to reflect 6 days per week of construction activity).

APPENDIX A.2

Energy Outputs

Source: EMFAC2021 (v1.0.1) Emissions Inventory Region Type: County Region: San Joaquin Calendar Year: 2023, 2025

Season: Annual
Vehicle Classification: EMFAC202x Categories
Units: miles/day for CVMT and EVMT, trips/day for Trips, kWh/day for Energy Consumption, tons/day for Emissions, 1000 gallons/day for Fuel Consumption

Region	Calendar Year	Vehicle Category	Model Year	Speed	Fuel	Population	Total VMT	Trips	Fuel Consumption	MPG
San Joaquin		All Other Buses	Aggregate	Aggregate	Diesel	63.39460475	3393.93922	564.2119822	0.391421545	8.670803
San Joaquin	2023		Aggregate	Aggregate	Gasoline	246367.0682	9973102.47	1138235.391	349.3216614	28.54991
San Joaquin	2023	LDA	Aggregate	Aggregate	Diesel		23139.8254	3023.214022	0.543997543	
San Joaquin		LDT1	Aggregate	Aggregate	Gasoline	22016.87719		95173.38769	30.52486616	
San Joaquin		LDT1 LDT2	Aggregate	Aggregate	Diesel	6.309776167	72.3140659	18.53577151	0.002954101	
San Joaquin San Joaquin		LDT2	Aggregate	Aggregate Aggregate	Gasoline Diesel	99986.64004 269.0353638	4006976.31 11767.7731	463638.6569 1277.639106	174.3583341 0.369317903	
San Joaquin		LHD1	Aggregate Aggregate	Aggregate	Gasoline	9831.305478	343356.563	146471.803	37.0137846	
San Joaquin		LHD1	Aggregate	Aggregate	Diesel	8858.793592	311287.78	111432.479	19.67413691	
San Joaquin		LHD2	Aggregate	Aggregate	Gasoline	1172.202392	40932.8123	17464.06906	4.90823024	
San Joaquin	2023	LHD2	Aggregate	Aggregate	Diesel	3130.564849	115648.086	39378.56755	8.863291415	13.04798
San Joaquin		MCY	Aggregate	Aggregate	Gasoline	12111.77426	65765.9483	24223.54852	1.643730409	40.01018
San Joaquin		MDV	Aggregate	Aggregate	Gasoline	94539.47242	3309649.73	427287.8869	178.486066	18.5429
San Joaquin San Joaquin	2023 2023	MDV	Aggregate	Aggregate Aggregate	Diesel Gasoline	1386.649679 1507.494843	54072.4946 13134.1796	6485.715736 150.8097841	2.267270858 2.977418428	
San Joaquin	2023		Aggregate Aggregate	Aggregate	Diesel	642.7961913	5646.6428	64.27961913	0.600452961	9.403972
San Joaquin		Motor Coach	Aggregate	Aggregate	Diesel	17.50069597	2493.47591	402.1659934	0.455354651	5.475899
San Joaquin	2023	OBUS	Aggregate	Aggregate	Gasoline	184.2186442	8143.5346	3685.846633	1.733278965	4.69834
San Joaquin	2023	PTO	Aggregate	Aggregate	Diesel	0	19769.5175	0	4.013121008	4.92622
San Joaquin		SBUS	Aggregate	Aggregate	Gasoline	127.6658449	7011.40481	510.6633795	0.69096273	10.1473
San Joaquin		SBUS	Aggregate	Aggregate	Diesel	488.0661519	10999.7571	7067.197879	1.346323697	
San Joaquin		T6 CAIRP Class 4 T6 CAIRP Class 5	Aggregate	Aggregate	Diesel	10.21525791 13.70885779	684.779876 939.491781	234.7466267	0.077405114	8.846701 8.858446
San Joaquin San Joaquin		T6 CAIRP Class 6	Aggregate Aggregate	Aggregate Aggregate	Diesel Diesel	43.24157557	2453.39435	315.0295519 993.6914066	0.106056052 0.273109788	8.98318
San Joaquin		T6 CAIRP Class 7	Aggregate	Aggregate	Diesel	74.64743229	15398.8197	1715.397994	1.609252898	
San Joaquin	2023	T6 Instate Delivery Class 4	Aggregate	Aggregate	Diesel	243.75384	8276.65194	3478.367297	1.005561316	
San Joaquin	2023	T6 Instate Delivery Class 5	Aggregate	Aggregate	Diesel	156.2432876	5383.85911	2229.591714	0.657027122	8.194272
San Joaquin		T6 Instate Delivery Class 6	Aggregate	Aggregate	Diesel	682.6025228	23363.9411	9740.738001	2.839033489	
San Joaquin		T6 Instate Delivery Class 7	Aggregate	Aggregate	Diesel	122.4768589	6703.21055	1747.744776	0.802391793	
San Joaquin San Joaquin		T6 Instate Other Class 4 T6 Instate Other Class 5	Aggregate	Aggregate	Diesel	449.8451938 1174.570894	18399.4289 51943.6226	5200.21044 13578.03953	2.166542487 6.096265009	8.492531 8.520565
San Joaquin		T6 Instate Other Class 6	Aggregate Aggregate	Aggregate Aggregate	Diesel Diesel	912.5417949	38573.6428	10548.98315	4.50612298	
San Joaquin		T6 Instate Other Class 7	Aggregate	Aggregate	Diesel	553.092214	25667.2012	6393.745994	2.950154535	8.70029
San Joaquin		T6 Instate Tractor Class 6	Aggregate	Aggregate	Diesel	10.69132111		123.591672	0.060247854	8.480399
San Joaquin	2023	T6 Instate Tractor Class 7	Aggregate	Aggregate	Diesel	696.5366058	42802.4924	8051.963163	4.748833943	9.013264
San Joaquin		T6 OOS Class 4	Aggregate	Aggregate	Diesel	5.905142679	392.334655	135.7001788	0.044317954	8.852725
San Joaquin		T6 OOS Class 5	Aggregate	Aggregate	Diesel	7.890998517	538.212595	181.3351459	0.060737656	
San Joaquin		T6 OOS Class 6	Aggregate	Aggregate	Diesel	24.97157764	1406.36491	573.8468541	0.156409596	
San Joaquin San Joaquin		T6 OOS Class 7 T6 Public Class 4	Aggregate Aggregate	Aggregate Aggregate	Diesel Diesel	40.57354344 32.09216486	10226.0217 1056.60486	932.3800283 164.6328057	1.062980063 0.140824099	9.620144 7.503012
San Joaquin		T6 Public Class 5	Aggregate	Aggregate	Diesel	76.27568061	2776.64108	391.2942415	0.361173048	
San Joaquin		T6 Public Class 6	Aggregate	Aggregate	Diesel	126.4582156	4446.297	648.7306462	0.576020372	
San Joaquin	2023	T6 Public Class 7	Aggregate	Aggregate	Diesel	152.7305258	6768.06936	783.5075973	0.883776286	7.658125
San Joaquin		T6 Utility Class 5	Aggregate	Aggregate	Diesel	33.47606031	1364.93307	428.493572	0.154770907	8.819055
San Joaquin		T6 Utility Class 6	Aggregate	Aggregate	Diesel	6.356456131	257.430851	81.36263848	0.029104667	8.845002
San Joaquin		T6 Utility Class 7	Aggregate	Aggregate	Diesel		358.500092	92.55462468	0.040337535	8.887506
San Joaquin San Joaquin		T6TS T7 CAIRP Class 8	Aggregate Aggregate	Aggregate Aggregate	Gasoline Diesel	560.525111 1500.771839	27400.6685 308143.872	11214.98642 34487.73687	5.873758607 51.00604804	4.664929 6.04132 HHD
San Joaquin		T7 NNOOS Class 8	Aggregate	Aggregate	Diesel	1343.474448	364734.036	30873.04281	59.83110996	6.09606 5.596459
San Joaquin		T7 NOOS Class 8	Aggregate	Aggregate	Diesel		132501.396	12923.02868	21.97566159	6.029461
San Joaquin	2023	T7 Other Port Class 8	Aggregate	Aggregate	Diesel	28.6781176	5381.65764	469.174004	0.90785985	5.927851
San Joaquin		T7 POAK Class 8	Aggregate	Aggregate	Diesel	131.1211785	13188.0173	2145.142481	2.26470624	
San Joaquin		T7 POLA Class 8	Aggregate	Aggregate	Diesel	139.588006	18353.09	2283.659779	3.154875131	
San Joaquin		T7 Public Class 8	Aggregate	Aggregate	Diesel		16533.9411 8595.90453	1985.652484	3.205449572	
San Joaquin San Joaquin		T7 Single Concrete/Transit Mix Class 8 T7 Single Dump Class 8	Aggregate Aggregate	Aggregate Aggregate	Diesel Diesel	118.1878034 486.5561857		1113.329108 4583.359269	1.467125303 5.327318734	5.859012 5.76407
San Joaquin		T7 Single Other Class 8	Aggregate	Aggregate	Diesel	1040.735731		9803.730584	9.736964144	
San Joaquin		T7 SWCV Class 8	Aggregate	Aggregate	Diesel		11346.9523	805.2047965	4.507153801	
San Joaquin	2023	T7 Tractor Class 8	Aggregate	Aggregate	Diesel	2638.276559		38334.1584	34.91925222	6.069369
San Joaquin		T7 Utility Class 8	Aggregate	Aggregate	Diesel	23.22093261		297.2279374	0.186573576	
San Joaquin	2023		Aggregate	Aggregate	Gasoline	2.419215607	60.0081934	48.40366587	0.018776223	
San Joaquin		UBUS	Aggregate	Aggregate	Gasoline	49.369827	3719.55506	197.479308 313.3548953	0.791708132 0.602229331	
San Joaquin San Joaquin		UBUS All Other Buses	Aggregate Aggregate	Aggregate Aggregate	Diesel Diesel	78.33872382 67.92171408	5427.523 3454 27959	604.5032553	0.395338932	
San Joaquin	2025		Aggregate	Aggregate	Gasoline		10065418.7	1143376.643	340.6379829	
San Joaquin	2025		Aggregate	Aggregate	Diesel	620.8563183	19917.7375	2643.071074	0.459921869	
San Joaquin	2025	LDT1	Aggregate	Aggregate	Gasoline	20969.62889	704503.526	90823.61908	28.55436416	24.67236
San Joaquin		LDT1	Aggregate	Aggregate	Diesel	5.057977491		14.33247387	0.002232746	
San Joaquin		LDT2	Aggregate	Aggregate	Gasoline	105887.2734		491668.9279	179.0193905	
San Joaquin		LDT2	Aggregate	Aggregate	Diesel		13558.4186	1463.961841	0.410704288	
San Joaquin San Joaquin		LHD1 LHD1	Aggregate Aggregate	Aggregate Aggregate	Gasoline Diesel	9450.489324 8447.684296	335570.018 292201.982	140798.2097 106261.2413	34.90157426 18.38163512	
San Joaquin		LHD2	Aggregate	Aggregate	Gasoline	1129.168714		16822.93138	4.600897482	
San Joaquin		LHD2	Aggregate	Aggregate	Diesel		112092.227	38980.41096	8.493201579	
San Joaquin		MCY	Aggregate	Aggregate	Gasoline	12009.69999	64631.0827	24019.39998	1.598967718	40.42051
San Joaquin		MDV	Aggregate	Aggregate	Gasoline	92446.53152	3253692.9	417141.1232	169.0306745	
San Joaquin		MDV	Aggregate	Aggregate	Diesel	1393.091492		6420.977754	2.139013823	
San Joaquin	2025		Aggregate	Aggregate	Gasoline		11738.0981	134.6272954	2.660033836	
San Joaquin San Joaquin	2025 2025	MH Motor Coach	Aggregate Aggregate	Aggregate Aggregate	Diesel Diesel	631.6240768 18.80772922	5453.24118 2514.51501	63.16240768 432.2016174	0.580283559 0.452917647	
San Joaquin		OBUS	Aggregate	Aggregate	Gasoline	170.8324994		3418.016649	1.52248184	
4			33 -0- /-	55 -0						

San Joaquin	2025 PTO	Aggregate	Aggregate	Diesel	0	20105.4227	0	3.98427046	5.046199
San Joaquin	2025 SBUS	Aggregate	Aggregate	Gasoline	131.6189784	7271.29468	526.4759134	0.71341232	10.19228
San Joaquin	2025 SBUS	Aggregate	Aggregate	Diesel	490.2787139	10849.6548	7099.235777	1.320741795	8.214819 MHD
San Joaquin	2025 T6 CAIRP Class 4	Aggregate	Aggregate	Diesel	10.57610418	697.742444	243.038874	0.077548733	8.997471 8.711536
San Joaquin	2025 T6 CAIRP Class 5	Aggregate	Aggregate	Diesel	14.00551629	958.755772	321.8467643	0.106617779	8.992457
San Joaquin	2025 T6 CAIRP Class 6	Aggregate	Aggregate	Diesel	47.29566683	2488.35531	1086.854424	0.272426579	9.13404
San Joaquin	2025 T6 CAIRP Class 7	Aggregate	Aggregate	Diesel	78.11014265	15772.0773	1794.971078	1.605687139	9.822634
San Joaquin	2025 T6 Instate Delivery Class 4	Aggregate	Aggregate	Diesel	252.424868	8475.97193	3602.102866	1.019116289	8.316982
San Joaquin	2025 T6 Instate Delivery Class 5	Aggregate	Aggregate	Diesel	162.4907366	5516.89416	2318.742812	0.666350411	8.279269
San Joaquin	2025 T6 Instate Delivery Class 6	Aggregate	Aggregate	Diesel	708.1406495	23932.0747	10105.16707	2.87788442	8.315857
San Joaquin	2025 T6 Instate Delivery Class 7	Aggregate	Aggregate	Diesel	127.2799027	6929.15534	1816.284212	0.825964977	8.389164
San Joaquin	2025 T6 Instate Other Class 4	Aggregate	Aggregate	Diesel	457.3843802	18839.146	5287.363435	2.200026822	8.563144
San Joaquin	2025 T6 Instate Other Class 5	Aggregate	Aggregate	Diesel	1233.945904	53254.2945	14264.41465	6.208167542	8.578102
San Joaquin	2025 T6 Instate Other Class 6	Aggregate	Aggregate	Diesel	939.5521797	39531.7219	10861.2232	4.582174014	8.627285
San Joaquin	2025 T6 Instate Other Class 7	Aggregate	Aggregate	Diesel	601.2468734	26326.7381	6950.413857	3.002944814	8.766974
San Joaquin	2025 T6 Instate Tractor Class 6	Aggregate	Aggregate	Diesel	11.09411194	521.271565	128.2479341	0.060836197	8.568444
San Joaquin	2025 T6 Instate Tractor Class 7	Aggregate	Aggregate	Diesel	742.8431118	44239.5012	8587.266373	4.878765067	9.067766
San Joaquin	2025 T6 OOS Class 4	Aggregate	Aggregate	Diesel	6.191325924	405.515484	142.2766697	0.044545776	9.103343
San Joaquin	2025 T6 OOS Class 5	Aggregate	Aggregate	Diesel	8.158025029	556.294323	187.4714152	0.061223253	9.086324
San Joaquin	2025 T6 OOS Class 6	Aggregate	Aggregate	Diesel	27.75525515	1453.61298	637.8157633	0.156720574	9.275189
San Joaquin	2025 T6 OOS Class 7	Aggregate	Aggregate	Diesel	42.05361037	10569.5739	966.3919663	1.066856767	9.90721
San Joaquin	2025 T6 Public Class 4	Aggregate	Aggregate	Diesel	30.96340517	1050.77782	158.8422685	0.137051326	7.667039
San Joaquin	2025 T6 Public Class 5	Aggregate	Aggregate	Diesel	77.40598482	2785.90976	397.0927021	0.357713881	7.788095
San Joaquin	2025 T6 Public Class 6	Aggregate	Aggregate	Diesel	124.4648645	4446.56253	638.5047549	0.566454177	7.849819
San Joaquin	2025 T6 Public Class 7	Aggregate	Aggregate	Diesel	148.2002736	6742.4666	760.2674038	0.856702113	7.870258
San Joaquin	2025 T6 Utility Class 5	Aggregate	Aggregate	Diesel	33.80713566	1371.26265	432.7313364	0.154052822	8.90125
San Joaquin	2025 T6 Utility Class 6	Aggregate	Aggregate	Diesel	6.404694197	258.753793	81.98008572	0.028984726	8.927246
San Joaquin	2025 T6 Utility Class 7	Aggregate	Aggregate	Diesel	7.233394318	359.399463	92.58744727	0.039964166	8.993043
San Joaquin	2025 T6TS	Aggregate	Aggregate	Gasoline	531.0756316	27321.54	10625.76124	5.695995374	4.796623 HHD
San Joaquin	2025 T7 CAIRP Class 8	Aggregate	Aggregate	Diesel	1559.383676	317454.145	35834.63687	51.17555421	6.203238 5.689878
San Joaquin	2025 T7 NNOOS Class 8	Aggregate	Aggregate	Diesel	1399.986354	379791.503	32171.68641	59.50406302	
San Joaquin	2025 T7 NOOS Class 8	Aggregate	Aggregate	Diesel	592.9033383		13624.91871	22.13949036	
San Joaquin	2025 T7 Other Port Class 8	Aggregate	Aggregate	Diesel	31.09466321	5773.39367	508.7086901	0.965450648	5.979999
San Joaquin	2025 T7 POAK Class 8	Aggregate	Aggregate	Diesel	137.4284865		2248.330039	2.333991731	
San Joaquin	2025 T7 POLA Class 8	Aggregate	Aggregate	Diesel	157.478818	19849.822	2576.353462	3.419583803	
San Joaquin	2025 T7 Public Class 8	Aggregate	Aggregate	Diesel	386.4284577	16615.451	1982.377988	3.157962941	
San Joaquin	2025 T7 Single Concrete/Transit Mix Class 8	Aggregate	Aggregate	Diesel	121.0999578		1140.761603	1.428680336	
San Joaquin	2025 T7 Single Dump Class 8	Aggregate	Aggregate	Diesel	518.3758674		4883.100671	5.328325632	
San Joaquin	2025 T7 Single Other Class 8	Aggregate	Aggregate	Diesel	1163.187559		10957.22681	9.897066107	
San Joaquin	2025 T7 SWCV Class 8	Aggregate	Aggregate	Diesel	167.5568448		770.7614863	4.227120943	
San Joaquin	2025 T7 Tractor Class 8	Aggregate	Aggregate	Diesel	2947.082282		42821.10556	35.73125002	
San Joaquin	2025 T7 Utility Class 8	Aggregate	Aggregate	Diesel	24.5522509	1096.54573	314.2688115	0.187591616	
San Joaquin	2025 T7IS	Aggregate	Aggregate	Gasoline	1.372290651		27.45679134	0.014900233	
San Joaquin	2025 UBUS	Aggregate	Aggregate	Gasoline	50.67993554		202.7197421	0.812722391	
San Joaquin	2025 UBUS	Aggregate	Aggregate	Diesel	73.34639924	4977.17265	293.3855969	0.526331001	9.456355

On-road Mobile (Operational) Energy Usage

Unmitigated:

Step 1:

Therefore:

Average Daily VMT:

81,215 Source: CalEEMod

Step 2: Given:

Fleet Mix (CalEEMod Output)

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HH	D OBUS	UBUS	MCY	S	BUS	MH
	37.37%	3.63%	11.71%	10.11%	1.74%	0.42%	0.87%	32.21%	0.03%	0.02%	1.58%	0.08%	0.23%

And:

Gasoline MPG Factors for each Vehicle Class - Year 2025 (EMFAC2021 Output)

LDA	LDT1	LDT2	MDV	MCY	MH	
	29 549	24 672	24 006	19 249	40 421	4 413

Diesel MPG Factors for each Vehicle Class - Year 2023 (EMFAC2021 Output)

LHD1	LHD2	MHD	HHD	OBUS	UBUS	SBUS	
	15.896	13.198	8.712	5.690	4.801	9.456	8.215

Therefore:

Weighted Average MPG Factors

Gasoline: Diesel: 6.4

Step 3: Therefore: 1,956 daily gallons of gasoline 4,523 daily gallons of diesel

> 713,971 annual gallons of gasoline 1,650,744 annual gallons of diesel

Off-road Mobile (Construction) Energy Usage

Note: For the sake of simplicity, and as a conservative estimation, it was assumed that all off-road vehicles use diesel fuel as an energy source.

 Given Factor:
 3,434.4 metric tons
 CO2 (provided in CalEEMod Output File)

 Conversion Factor:
 2204.6262 pounds per metric ton
 per metric ton

 Intermediate Result:
 7,571,545 pounds
 CO2

 Conversion Factor:
 22.38 pounds
 CO2 per 1 gallon of diesel fuel source: U.S. EIA, 2016

 Final Result:
 338,318 gallons
 diesel fuel http://www.eia.gov/tools/faqs/faq.cfm?id=307&t=11

Mitigated Onsite Scenario	Total CO2 (MT/yr) (pro	ovided in CalEEMod Output File)
Site Preparation (2024)	57.1000	
Phase 1 - Site Finishing (2025)	14.2	

On-road Mobile (Construction) Energy Usage - Site Preparation

Note: Year 2021 MPG factors were derived for construction-releated energy consumption (for the sake of a conservative estimate).

Step 1: Total Daily Worker Trips (CalEEMod Output)

18

Worker Trip Length (miles) (CalEEMod Output)

11.9

Therefore:

Average Worker Daily VMT:

214

Step 2: Given:

Assumed Fleet Mix for Workers (Percentage mix is provided on Appendix A: Calculation Details for CalEEMOD p. 15)

LDA LDT1 LDT2

0.5 0.25 0.25

And:

Gasoline MPG Factors for each Vehicle Class (EMFAC2021 Output) - Year 2023

LDA LDT1 LDT2
28.55 23.82 22.98

Therefore:

Weighted Average Worker MPG Factor

26.0

Step 3: Therefore:

8.2 Worker daily gallons of gasoline

Step 4: 17 # of Days (CalEEMod Output)

Therefore:

Result: 140 Total gallons of gasoline

On-road Mobile (Construction) Energy Usage - Grading

Note: Year 2021 MPG factors were derived for construction-releated energy consumption (for the sake of a conservative estimate).

Step 1: **Total Daily Worker Trips (CalEEMod Output) Total Hauling Trips (CalEEMod Output)** 45 70 Worker Trip Length (miles) (CalEEMod Output) Hauling Trip Length (miles) (CalEEMod Output) 20 11.9 Therefore: Average Worker Daily VMT: Average Vendor Daily VMT: 536 1,400 Step 2: Given: **Assumed Fleet Mix for Workers** Fleet Mix for Workers (Conservative Estimate) LDT1 LDT2 0.5 0.25 0.25 0% 100% (Percentage mix is provided on Appendix A: Calculation Details for CalEEMOD p. 15) Gasoline MPG Factors for each Vehicle Class (EMFAC2021 Output) - Year 2023 LDT1 LDT2 Diesel: MHD 22.98 HHD 28.55 23.82 5.60 Therefore: Weighted Average Worker MPG Factor Weighted Average Hauling (Diesel) MPG Factor 26.0 Step 3: Therefore: 20.6 Worker daily gallons of gasoline 125 # of Days (CalEEMod Output) Step 4: Therefore: Therefore: 2,577 Total gallons of gasoline 250 Total gallons of diesel Result:

On-road Mobile (Construction) Energy Usage - Phase 1 - Building Construction

Note: Year 2021 MPG factors were derived for construction-releated energy consumption (for the sake of a conservative estimate).

Total Daily Worker Trips (CalEEMod Output) Step 1: **Total Daily Vendor Trips (CalEEMod Output)** 733 286 Note: Assumes 5% of workers are on-site on a given day. Note: Assumes 5% of workers are on-site on a given day. Worker Trip Length (miles) (CalEEMod Output) Vendor Trip Length (miles) (CalEEMod Output) Therefore: Average Worker Daily VMT: Average Vendor Daily VMT: 8,723 2,603 Step 2: **Assumed Fleet Mix for Workers** (Percentage mix is provided on Appendix A: Calculation Details for CalEEMOD p. 15) Fleet Mix for Workers (CalEEMod Output) LDA LDT1 0.25 MHD HHD **Assumed Fleet Mix for Vendors** 100% And: MPG Factors for each Vehicle Class (from EMFAC2021) - Year 2023 Gasoline: Diesel: LDA LDT1 LDT2 MHD HHD 28.55 23.82 22.98 8.58 5.60 Therefore: Weighted Average Worker (Gasoline) MPG Factor Weighted Average Vendor (Diesel) MPG Factor Step 3: Therefore: Therefore: 336 Worker daily gallons of gasoline 303 Vendor daily gallons of diesel 319 # of Days (CalEEMod Output) Step 4: Therefore: Therefore: 107,119 Total gallons of gasoline 96,773 Total gallons of diesel

On-road Mobile (Construction) Energy Usage - Phase 1 - Site Finishing

Note: Year 2021 MPG factors were derived for construction-releated energy consumption (for the sake of a conservative estimate).

Total Hauling Trips (CalEEMod Output) Step 1: **Total Daily Worker Trips (CalEEMod Output)** 15 57 Worker Trip Length (miles) (CalEEMod Output) Hauling Trip Length (miles) (CalEEMod Output) 20 11.9 Therefore: Average Worker Daily VMT: **Average Vendor Daily VMT:** 179 1,140 Step 2: Given: (Percentage mix is provided on Appendix A: Calculation Details for CalEEMOD p. 15) **Assumed Fleet Mix for Workers** Fleet Mix for Workers (Conservative Estimate) LDT1 LDT2 MHD 0% 100% And: Gasoline MPG Factors for each Vehicle Class (EMFAC2021 Output) - Year 2023 LDT2 LDT1 Diesel: MHD 22.98 HHD 28.55 23.82 8.58 5.60 Therefore: Weighted Average Worker MPG Factor Weighted Average Hauling (Diesel) MPG Factor 26.0 5.6 Step 3: Therefore: 6.9 Worker daily gallons of gasoline 42 # of Days (CalEEMod Output) Step 4: Therefore: Therefore: 289 Total gallons of gasoline 204 Total gallons of diesel Result:

On-road Mobile (Construction) Energy Usage - Phase 2 - Site Finishing

Note: Year 2021 MPG factors were derived for construction-releated energy consumption (for the sake of a conservative estimate).

Step 1: Total Daily Worker Trips (CalEEMod Output) **Total Hauling Trips (CalEEMod Output)** 15 57 Worker Trip Length (miles) (CalEEMod Output) Hauling Trip Length (miles) (CalEEMod Output) 11.9 20 Therefore: Average Worker Daily VMT: Average Vendor Daily VMT: 179 1,140 Step 2: Given: **Assumed Fleet Mix for Workers** (Percentage mix is provided on Appendix A: Calculation Details for CalEEMOD p. 15) LDT1 LDT2 LDA Fleet Mix for Workers (Conservative Estimate) 0.25 MHD HHD

And:

Step 3:

Step 4:

Gasoline MPG Factors for each Vehicle Class (EMFAC2021 Output) - Year 2023

LDA LDT1 LDT2 Diesel: MHD 23.82 22.98 HHD 8.58 5.60

Therefore:

Therefore:

Weighted Average Worker MPG Factor Weighted Average Hauling (Diesel) MPG Factor

26.0

55 # of Days (CalEEMod Output)

Therefore: Therefore:

6.9 Worker daily gallons of gasoline

378 Total gallons of gasoline 204 Total gallons of diesel Result:

On-road Mobile (Construction) Energy Usage - Off-site Grading

Note: Year 2021 MPG factors were derived for construction-releated energy consumption (for the sake of a conservative estimate).

Step 1: Total Daily Worker Trips (CalEEMod Output)

35

Worker Trip Length (miles) (CalEEMod Output)

11.9

Therefore:

Average Worker Daily VMT:

417

Step 2: Given:

Assumed Fleet Mix for Workers (Percentage mix is provided on Appendix A: Calculation Details for CalEEMOD p. 15)

LDA LDT1 LDT2

0.5 0.25 0.25

And:

Gasoline MPG Factors for each Vehicle Class (EMFAC2021 Output) - Year 2023

LDA LDT1 LDT2
28.55 23.82 22.98

Therefore:

Weighted Average Worker MPG Factor

26.0

Step 3: Therefore:

16.0 Worker daily gallons of gasoline

Step 4: 306 # of Days (CalEEMod Output)

Therefore:

Result: 4,906 Total gallons of gasoline

On-road Mobile (Construction) Energy Usage - Phase 2 Building Construction

Note: Year 2021 MPG factors were derived for construction-releated energy consumption (for the sake of a conservative estimate).

Step 1: Total Daily Worker Trips (CalEEMod Output) Total Daily Vendor Trips (CalEEMod Output) 733 286 Note: Assumes 5% of workers are on-site on a given day. Worker Trip Length (miles) (CalEEMod Output) Vendor Trip Length (miles) (CalEEMod Output) 11.9 9.1 Therefore: Average Worker Daily VMT: Average Vendor Daily VMT: 8,723 2,603 Step 2: Given: **Assumed Fleet Mix for Workers** (Percentage mix is provided on Appendix A: Calculation Details for CalEEMOD p. 15) LDT2 LDA LDT1 Fleet Mix for Workers (CalEEMod Output) 0.25 MHD HHD And: Gasoline MPG Factors for each Vehicle Class (EMFAC2021 Output) - Year 2023 LDA LDT1 LDT2 23.82 22.98 Therefore: Diesel: Weighted Average Worker MPG Factor MHD HHD 26.0 8.58 5.60 Step 3: Therefore: 335.8 Worker daily gallons of gasoline Weighted Average Vendor (Diesel) MPG Factor 203 # of Days (CalEEMod Output) Step 4:

Therefore:

Therefore:

303 Vendor daily gallons of diesel

61,583 Total gallons of diesel

Therefore:

Result:

68,166 Total gallons of gasoline

On-road Mobile (Construction) Energy Usage - Off-site Paving

Note: Year 2021 MPG factors were derived for construction-releated energy consumption (for the sake of a conservative estimate).

Step 1: Total Daily Worker Trips (CalEEMod Output)

15

Worker Trip Length (miles) (CalEEMod Output)

11.9

Therefore:

Average Worker Daily VMT:

179

Step 2: Given:

Assumed Fleet Mix for Workers (Percentage mix is provided on Appendix A: Calculation Details for CalEEMOD p. 15)

LDA LDT1 LDT2

0.5 0.25 0.25

And:

Gasoline MPG Factors for each Vehicle Class (EMFAC2021 Output) - Year 2023

LDA LDT1 LDT2
28.55 23.82 22.98

Therefore:

Weighted Average Worker MPG Factor

26.0

Step 3: Therefore:

6.9 Worker daily gallons of gasoline

Step 4: 48 # of Days (CalEEMod Output)

Therefore:

Result: 330 Total gallons of gasoline

On-road Mobile (Construction) Energy Usage - Off-site Improvements

Note: Year 2021 MPG factors were derived for construction-releated energy consumption (for the sake of a conservative estimate).

Step 1: Total Daily Worker Trips (CalEEMod Output)

30

Worker Trip Length (miles) (CalEEMod Output)

11.9

Therefore:

Average Worker Daily VMT:

357

Step 2: Given:

Assumed Fleet Mix for Workers (Percentage mix is provided on Appendix A: Calculation Details for CalEEMOD p. 15)

LDA LDT1 LDT2

0.5 0.25 0.25

And:

Gasoline MPG Factors for each Vehicle Class (EMFAC2021 Output) - Year 2023

LDA LDT1 LDT2
28.55 23.82 22.98

Therefore:

Weighted Average Worker MPG Factor

26.0

Step 3: Therefore:

13.7 Worker daily gallons of gasoline

Step 4: 163 # of Days (CalEEMod Output)

Therefore:

Result: 2,240 Total gallons of gasoline

On-road Mobile (Construction) Energy Usage - Phase 1 - Paving

Note: Year 2021 MPG factors were derived for construction-releated energy consumption (for the sake of a conservative estimate).

Step 1: Total Daily Worker Trips (CalEEMod Output)

15

Worker Trip Length (miles) (CalEEMod Output)

11.9

Therefore:

Average Worker Daily VMT:

179

Step 2: Given:

Assumed Fleet Mix for Workers (Percentage mix is provided on Appendix A: Calculation Details for CalEEMOD p. 15)

LDA LDT1 LDT2

0.5 0.25 0.25

And:

Gasoline MPG Factors for each Vehicle Class (EMFAC2021 Output) - Year 2023

LDA LDT1 LDT2
28.55 23.82 22.98

Therefore:

Weighted Average Worker MPG Factor

26.0

Step 3: Therefore:

6.9 Worker daily gallons of gasoline

Step 4: 37 # of Days (CalEEMod Output)

Therefore:

Result: 254 Total gallons of gasoline

On-road Mobile (Construction) Energy Usage - Phase 2 - Paving

Note: Year 2021 MPG factors were derived for construction-releated energy consumption (for the sake of a conservative estimate).

Step 1: Total Daily Worker Trips (CalEEMod Output)

15

Worker Trip Length (miles) (CalEEMod Output)

11.9

Therefore:

Average Worker Daily VMT:

179

Step 2: Given:

Assumed Fleet Mix for Workers (Percentage mix is provided on Appendix A: Calculation Details for CalEEMOD p. 15)

LDA LDT1 LDT2

0.5 0.25 0.25

And:

Gasoline MPG Factors for each Vehicle Class (EMFAC2021 Output) - Year 2023

LDA LDT1 LDT2
28.55 23.82 22.98

Therefore:

Weighted Average Worker MPG Factor

26.0

Step 3: Therefore:

6.9 Worker daily gallons of gasoline

Step 4: 14 # of Days (CalEEMod Output)

Therefore:

Result: 96 Total gallons of gasoline

APPENDIX A.3

Health Risk Assessment

ANALYSIS OF PUBLIC HEALTH RISKS

FOR THE TRACY COSTCO DEPOT PROJECT TRACY CALIFORNIA DECEMBER 15, 2023

PROJECT TITLE

Tracy Costco Depot

PREPARED BY:

De Novo Planning Group 1020 Suncast Lane Suite 106 El Dorado Hills, CA 95762

CONTACT PERSON AND PHONE NUMBER

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Introduction

This Health Risk Assessment (HRA) was prepared to assess potential public health risks that may be present at the proposed Tracy Costco Depot Project in the city of Tracy, San Joaquin County, California. This report analyzes the emissions of toxic air pollutants within the project area and their impacts on public health.

PROJECT DESCRIPTION

PROJECT LOCATION

The Project site is located at 16000 West Schulte Road in unincorporated San Joaquin County, California (see Figure 1). The Project site is within the Tracy Sphere of Influence (SOI) 10-Year Planning Horizon and is immediately adjacent to the Tracy city limits to the north of the site.

The Project site is immediately south of the intersection of Bud Lyons Way and West Schulte Road. The Project site is bounded on the north by West Schulte Road, on the west by an unnamed driveway serving the adjacent rural residence, on the south by the Delta Mendota Canal, and on the east by vacant agricultural land. The Project site is located within Sections 35 of Township 2 South, Range 4 East Mount Diablo Base Meridian (MDBM). Figure 1 show the Project's vicinity.

EXISTING SURROUNDING USES

Surrounding land uses include warehouse distribution and other industrial uses to the north (within the Cordes Ranch Specific Plan Area, located in the City of Tracy), vacant agricultural land within unincorporated San Joaquin County to the east, the Delta Mendota Canal and agricultural land within unincorporated San Joaquin County to the south, and a rural residence, CalFire station, and Delta Mendota Canal to the west (within unincorporated San Joaquin County).

PROJECT CHARACTERISTICS

The Project would include the construction and subsequent operation of two Costco Direct Delivery Center (DDC) buildings (approximately 543,325 sf for Building 1 and 1,201,726 sf for Building 2) totaling approximately 1,745,051 sf on the 103.0-acre development portion of the Project site. Building 1 is anticipated to serve as a regional ecommerce fulfillment distribution center primarily for large and bulky items. Building 2 is anticipated to serve as a warehouse for high turnover merchandise sold at warehouse stores and as a pallet repair and a Return to Vendor (RTV) facility. The Project would also include the required circulation, parking, and utility improvements. The site plan is shown in Figure 2.

SCOPE OF RISK ASSESSMENT

Preparation of risk assessments is a three-step process. The first step is to identify potential contaminants that may lead to public health risks. The second step is to assess the magnitude of contaminants that may reach the public (exposure assessment). The last step is to calculate the magnitude of the health risk as a result of exposure to harmful contaminants on the basis of the toxicology of the contaminants.

The Office of Environmental Health Hazard Assessment, and the San Joaquin Valley Air Pollution Control District (SJVAPCD) provide guidance on the procedures that should be used, including, toxicological data for individual contaminants. This risk assessment is based on the guidance provided within these guidance documents. It should be noted that while this risk assessment uses certain procedures and data from these Guidelines, this assessment is not intended to satisfy the reporting requirements under AB-2588 "Air Toxics" Hot Spots program.

The operational health risks that are evaluated in this study include:

- Residential Cancer Risk (70-year exposure; start at third trimester);
- Workplace Cancer Risk (40-year exposure; start at age 16); and
- Acute and Chronic Hazard Indices.

The 70-year risk applies to residential areas where exposure may potentially occur 24 hours/day, 365 days/year. The 40-year risk is applicable to workplace exposure and therefore accounts for a reduced exposure for the fact that individuals typically would be exposed 8-hrs per day, 5 days per week, and 50 weeks per year. Non-cancer risks can be described as acute (short-term, exposure) or chronic health impacts.

Additionally, construction-related health risks are also evaluated in this study, addressed cumulatively (i.e. in conjunction) with the operational health risks. Since the construction schedule would occur over approximately 2 years, the construction-related health risks include:

- Residential Cancer Risk (2-year exposure; start at third trimester);
- Workplace Cancer Risk (2-year exposure; start at age 16); and
- Acute and Chronic Hazard Indices.

MODELING ASSUMPTIONS

The Intake Rate Percentile utilized to assess both the operational and construction-related health risks was the " 95^{th} Percentile (High End)" Intake Rate Percentile, which selects the high end intake rate to assess risk at the 95^{th} percentile exposure rate for all pathways, representing the most conservative intake rate percentile assumption.

The pathways to evaluate selected was the 'Mandatory Minimum Pathways' selection for residential-related health risks, which accounts for the four minimum exposure pathways required by OEHHA to conduct a health risk assessment for residents, when multi-pathway pollutants are involved. These include inhalation, soil, dermal, and mother's milk. Separately, the 'Worker Pathways' selection was selected for the worker-related health risks, since this selection was more applicable to analysis of worker-related health risks.

Additionally, the Deposition Rate utilized for the analyses was '0.05 m/s (uncontrolled sources)', which represents the most conservative selection available for Deposition Rate. Furthermore, it should be noted that worker adjustment factors were not utilized for the worker inhalation pathway.

Furthermore, it should be noted that the construction modeling within AERMOD assumed a default 24-our construction schedule, even though construction would only occur for 10 hours daily in actuality, for the sake a more conservative assessment.

SIGNIFICANCE CRITERIA

The following significance criteria shown in Table 1, based on guidance from the SJVAPCD, are used in this report to assess the significance of public health risks.

TABLE 1 THRESHOLDS OF SIGNIFICANCE FOR PUBLIC HEALTH RISKS

Risk Metric	Significance Threshold			
Residential Cancer Risk	20 per million			
Workplace Cancer Risk	20 per million			
Chronic and Acute non-cancer hazard Indices	non-cancer health hazard exposure index of 1.0			

SOURCE: SJVAPCD, 2015.

As shown in Table 1, a project that contributes a cancer risk in excess of 20 new cases in a population of one million persons at identified receptors, or a non-cancer hazard index of greater than or equal to 1.0 would be considered to have a significant project-level impact.

EMISSION SOURCES AND EXPOSURE

The main source of toxic air pollutants (TACs) by the proposed Project is diesel particulate matter (DPM) from truck idle and mobile emissions. Based on numerous studies by the California Air Resources Board (ARB), DPM represents the largest single contributor to public health risks. Additionally, in its comprehensive assessment of diesel exhaust, OEHHA analyzed more than 30 studies of people who worked around diesel equipment, including truck drivers, railroad workers, and equipment operators. The studies showed these workers were more likely to develop lung cancer than workers who were not exposed to diesel emissions. These studies provide strong evidence that long-term occupational exposure to diesel exhaust increases the risk of lung cancer. Exposure to diesel exhaust can have immediate health effects. Diesel exhaust can irritate the eyes, nose, throat, and lungs, and it can cause coughs, headaches, lightheadedness, and nausea. In studies with human volunteers, diesel exhaust particles made people with allergies more susceptible to the materials to which they are allergic, such as dust and pollen. Exposure to diesel exhaust also causes inflammation in the lungs, which may aggravate chronic respiratory symptoms and increase the frequency or intensity of asthma attacks.

Emissions from the following project sources were analyzed and are shown in Table 2:

- Truck on-site and off-site mobile emissions
- Truck on-site idling emissions
- Construction-related off-road emissions

TABLE 2: EMISSION SOURCE ASSUMPTIONS

Source Type / Emission	Configuration	Assumptions ¹
On- and Off-site Mobile Diesel Truck Circulation (DPM)	Modeled as line-volume sources -Release Height = 4 meters (typical truck height) -Plume Height = 6.8 meters ² -Plume Width = 12 ft (typical truck width) -Line Lengths = based on path of travel -Base Elevation = Based on AERMAP terrain processor	 On-site and off-site travel of 612 trucks per day (Kimley Horn, 2022). Traveling distance based on proposed site plan layout and anticipated ingress/egress routes. Both on-site and off-site mobile circulation modeled. Off-site mobile routes modeled up to approximately 0.25 miles from project site boundaries.³ PM₁₀ mobile emissions factor provided by EMFAC2021 ⁴ (Parameters: San Joaquin County, Annual, Year 2025; emission factor for T7 Tractor Class 8)
On-site Diesel Truck Idling (DPM)	Modeled as point sources -Release Height = 12.6 ft ⁵ Gas Exit Velocity = 57.71 m/s @ 1500 rpm ⁶ -Stack Inside Diameter = 0.1 meters (based on typical stack inside diameters for heavyduty vehicles)Gas Exit Temperature = 366 K (based on typical diesel exit temperatures) -Base Elevation = Based on AERMAP terrain processor	 On-site Idle of 612 trucks per day (Kimley Horn, 2021) PM₁₀ mobile emissions factor provided by EMFAC2021 idling emission factors for 2025 T7 Tractor Class 8 diesel trucks. Total daily truck idling emissions were assumed to occur within the Project site (as opposed to being split among multiple locations throughout the day), which represents a conservative assumption.
Construction- related Off-road Emissions	Modeled as a volume source -Release Height = 8 ft. ⁷ -Base Elevation = Based on AERMAP terrain processor	On-site construction-related off-road emissions were modeled (based on the CalEEMod off-road emissions data).

 $^{^{1}}$ Each truck traveling to and from the project site on a daily basis consists of one ingress and one egress trip, for a total of 1,224 total daily truck trips.

² Based on the US EPA Transportation Conformity Guidance on modeling dispersion from vehicle travel, plume height was determined by multiplying the truck height by 1.7. See here: here (pg 55): https://nepis.epa.gov/Exe/ZyPdf.cgi?Dockey=P100NN22.pdf. Assuming a truck height of 4 meters, the resultant plume height would be 6.8 meters.

³ Consistent with Air District guidance.

⁴ EMFAC2021 (v1.0.2) represents the latest version of EMFAC.

⁵ Based on SJVAPCD modeling guidance.

⁶ Based on SIVAPCD modeling guidance.

⁷ Based on the average height of a construction tractor. See: https://farmingshelter.com/tractors-sizes-weight-height-width/

DAILY TRUCK TRIPS AND ROUTES

The total diesel truck trips generated by the proposed project is based on Technical Memorandum for the proposed project prepared by Kimley Horn in 2022. According to Kimley Horn, the average total daily truck traffic includes 1,224 heavy-duty truck trips per day, and 84 heavy-duty trucks during the maximum peak hour. The Technical Memorandum is provided in Appendix 2.

The off-site diesel truck routes were modeled consistent with the trip distribution for heavy trucks as provided in Figure 12 of Kimley Horn's Technical Memorandum (see Appendix 2 of this report for further detail), at least 0.25 miles away from the Project site (in accordance with San Joaquin Valley Air Pollution Control District guidance). As shown in Kimley Horn's Technical Memorandum, the diesel truck trips are anticipated to travel between the Project site I-580 and I-205. The routes from the Project site to and from these routes were modeled based on the ingress/egress points as provided in the Project site plan (see Figure 2 of this report). Consistent with Kimley Horn's Technical Memorandum, it was assumed that all heavy-duty trucks enter at the Schulte Road entrance (located at the northeastern corner of the Project site), and exit at the central exist (located across from Bud Lyons Way). The trucks would use Schulte road to enter and exit the project site.

Separately, the on-site circulation of trucks was modeled to account for the diesel truck travel throughout the entirety of the internal circulation route. Specifically, on-site circulation was modelled to account for internal Project site travel between each of the ingress/egress locations and the circulation pattern that surrounds the warehouses (for docking and loading/unloading) and the diesel truck parking areas.

EMISSION RATES

Table 3 provides emissions rates by source and emissions factors. For calculations, data outputs, and reference documents please see Appendix 1.

TABLE 3: EMISSION RATES BY SOURCE

Source	Pollutant	Volume/Size	Emission Factor	Emissions Pounds/Year
On-site Diesel Truck (Mobile) Circulation	DPM	612 trucks on-site per day traveling 1.11 miles	0.0084 g/mile	4.61
Off-site Diesel Truck (Mobile) Circulation	DPM	1,224 truck trips per day	0.0089 g/mile	7.30
On-site Diesel Truck Idling	DPM	612 trucks per day idling 5 min	0.0162 g/truck/day	7.96
On-site Construction- related Off-Road Equipment Activities	DPM	All Phases	N/A (Emissions as provided by CalEEMod)	87.72

Sources: EMFAC 2021; AERMOD; KIMLEY HORN.

EXPOSURE ASSESSMENT

Exposure assessment involves translating the emission rate (e.g., lbs/hr, g/hr) of individual toxic air contaminants into the concentration (e.g., grams/cubic meter g /sec m² or parts per million) of each toxic air contaminant. The key step in performing an exposure assessment is the application of an air dispersion model. The dispersion model incorporates the local meteorological data (wind speed, wind direction, local temperature, inversions, etc.), stack height, and exhaust flow characteristics, into the dispersion of individual air contaminant. The Lakes Environmental AERMOD Version 12.0.0 dispersion model was employed for this assessment. The AERMOD output file is shown in Appendix 3.

Modeling Receptors: Receptors were placed at locations of nearby sensitive receptors, including residential and workplace locations. Residential receptors were located at each of the nearby residential receptors, as previously described, as follows:

- A cluster of farmhouses is located along the western portion of the Project site, adjacent to the Project site (to the east of Hansen Road);
- A cluster of residences is located approximately 2,000 feet to the southwest of the Project site;
- Additional scattered residences are located approximately 2,200 to 3,000 feet to the south and southwest of the Project site;
- Residences are located approximately 900 feet to the southeast of the Project site; and
- An additional residence is located approximately 2,650 feet to the southeast of the Project site.

Additionally, workplace receptors were placed at various locations within the Project site, as well as surrounding the Project site boundary. A modified tier grid of receptors of a distance of 25 meters was placed within 500 meters of the approximate center of the Project site, to ensure capture of the maximum on-site workplace receptor. This allows for an analysis of the receptors that have the potential be most affected by the TACs generated by the proposed project. Lastly, a receptor 21 x 21 receptor modeling grid was included in the modeling, at a distance of 350 meters apart, to provide additional resolution to the modeling (it should be noted that although a receptor modeling grid is not required by the SJVAPCD, it provides additional refinement to the TAC risk contours). This approach to modeling receptors is consistent with the SJVAPCD's *Guidance for Air Dispersion Modeling* document, which requires receptor coverage to ensure that the maximum pollutant concentration is captured.

Meteorological Data: Five years of meteorological data was used in the exposure assessment. The meteorological ("Met") data (wind speed, wind direction, temperature, etc.) were recorded at the Tracy, CA location for the latest years of data available from the SJVAPCD. This location was the closest location MET data was available.

Building Downwash: The effects of building downwash on air dispersion from the Project warehouses and the warehouse located just to the north of the Project site (i.e. the Southern Carlson Distribution Center) were modeled within AERMOD.

RISK ASSESSMENT

Once the emissions rates of individual air contaminants have been calculated, and an air dispersion model has been run through AERMOD, the next step in determining health risks is to determine the cancer risk, and acute and chronic incident rates. Period and 1-hour dispersion files we used in combination with HARP-2 risk modelling software to calculate risk scenarios for residential, and workplace cancer rates, as well as acute and chronic incidences. The Hotspots Analysis and Reporting Program (HARP) is a software suite used to assist with the programmatic requirements of the Air Toxics "Hot Spots" Program [Assembly Bill (AB) 2588]. HARP combines the tools needed to implement the requirements of AB 2588, such as reporting a facilities emissions inventory, determining a facilities prioritization score, conducting air dispersion modeling, and performing a facility health risk assessment. This study utilized the HARP2 Air Dispersion and Risk Tool with dispersion plot files created in AERMOD. After the risk assessment was complete, HARP-2 plot files were then imported back into AREMOD for spatial and visual representation, and analysis of impact areas.

The Intake Rate Percentile sets the intake rate at which a person is exposed to the air pollutant. This study utilized the high-end intake rate to assess risk at the 95th percentile exposure rate for risk scenarios (see Appendix 4 HARP-2 project summary report). Additionally, for Project operation, residential cancer risk is assessed using a 70-year exposure duration starting at the third trimester; workplace cancer risks are assessed at a 40-year exposure duration with age 16 being the first potential exposure year. For Projection construction, since the construction schedule would occur over approximately 2 years, residential cancer risk is assessed using a 2-year exposure duration starting at the third trimester; workplace cancer risks are assessed at a 2-year exposure duration with age 16 being the first potential exposure year.

RISK ASSESSMENT RESULTS

The results of the risk analysis indicate that cancer risks vary depending on the exposure scenario (residential or worker) and on location. As would be expected, locations nearest the Project site have the greatest exposure and the associated risks are considerably lower as distance from the project site increases. Table 4 displays the residential and workplace cancer risk, and acute and chronic incidence rate results at nearest receptors. Figure 3 provides wind patterns at the Tracy, CA location where meteorological data was used for the modeling.

TABLE 4: SUMMARY OF MAXIMUM HEALTH RISKS

RISK METRIC	MAXIMUM RISK	Significance Threshold	Is Threshold Exceeded?
	<i>OPERATIONAL</i>		
Residential Cancer Risk (70-year exposure)	0.72 per million	20 per million	No
Workplace Cancer Risk (40-year exposure)	0.74 per million	20 per million	No
Chronic (non-cancer)	<0.01	Hazard Index ≥1	No
Acute (non-cancer) 1	0	Hazard Index ≥1	No
	Construction		
Residential Cancer Risk (2-year exposure)	0.94 per million	20 per million	No
Workplace Cancer Risk (2-year exposure)	0.07 per million	20 per million	No
Chronic (non-cancer)	<0.01	Hazard Index ≥1	No
Acute (non-cancer) 1	0	Hazard Index ≥1	No
	TOTAL		
Residential Cancer Risk (Aggregate)	1.66 per million	20 per million	No
Workplace Cancer Risk (Aggregrate)	0.81 per million	20 per million	No
Chronic (non-cancer)	<0.01	Hazard Index ≥1	No
Acute (non-cancer) 1	0	Hazard Index ≥1	No

Sources: AERMOD 12.0.0 (Lakes Environmental Software, 2023); and HARP-2 Air Dispersion and Risk Tool (version 22118).

The TAC emissions from the project result from the on-site and off-site truck travel, and on-site idling of diesel-fueled vehicles. The nearest sensitive receptors are those that surround the Project site, to the west, southwest, and southeast.

Overall, the results show that the total residential cancer risk would remain below the threshold of 20 in a million at areas near the project site that contain residential receptors, at a total of approximately 1.66 per million (at the location of maximum residential cancer risk). This residential receptor with the maximum overall residential cancer risk is located at 25730 Hansen Road, Tracy, CA 95377, to the west of the Project site. Figure 4 shows the residential operational cancer risk contours surrounding the Project site.

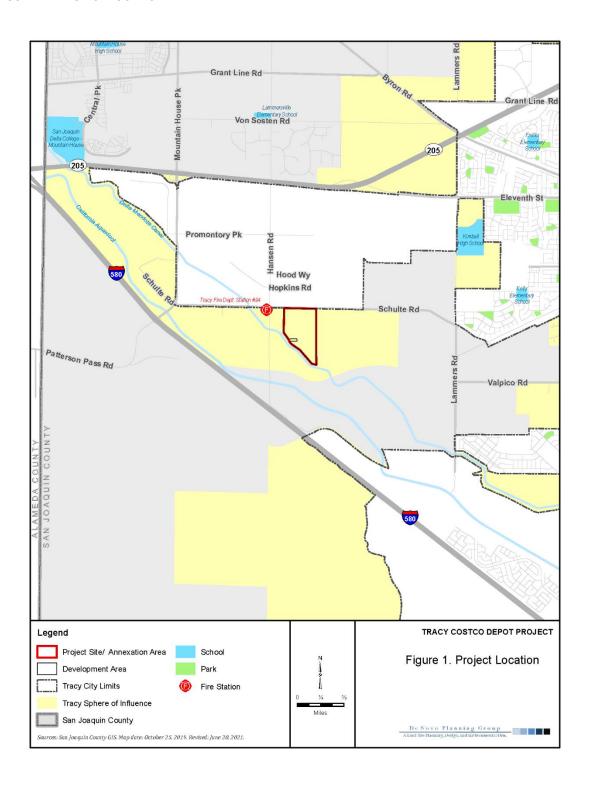
As shown in Figure 3, the wind patterns in the area generally blow from the west to the east. However, since the off-site heavy-duty truck travel is primarily to the west of the Project site (e.g. along Schulte Road), off-site health risks associated with the Project tend to be highest slightly to the west of the Project site. The modeling results show that the residences with the highest risk

are the farmhouses/residences located just west of the Project site, adjacent to the Project site. However, it is very unlikely any individual would remain at the same location for 70 years; therefore, this result represents a conservative estimate.

The results also show that the total workplace cancer risk would also remain below the threshold of 20 in a million, throughout the entire Project site. The workplace receptor with the maximum overall workplace cancer risk is located at the northern entrance to the Project site, along Schulte Road, with a maximum risk of up to 0.81 per million (at the location of maximum workplace cancer risk). However, it is very unlikely that any individual would be located at the northern entrance of the Project site for 40 years; therefore, this result represents a conservative estimate. Figure 5 shows the workplace operational cancer risk contours surrounding the Project site.

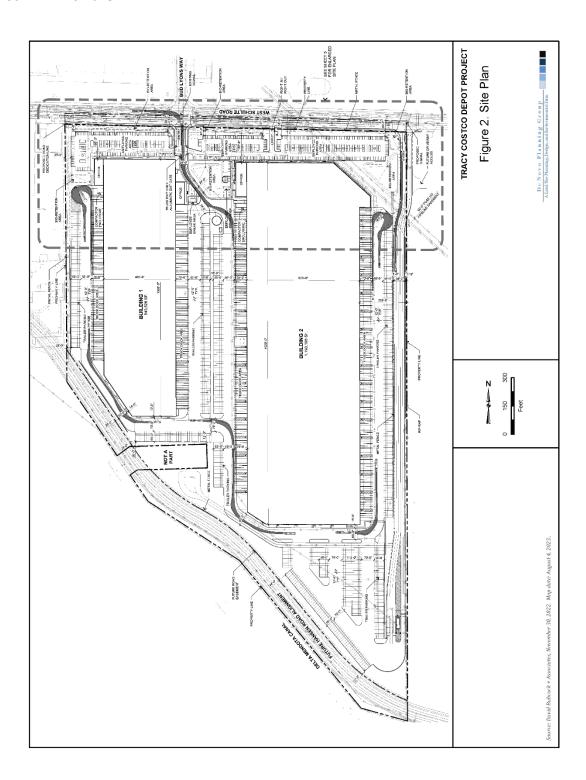
Chronic or long-term exposures and Acute exposure to DPM can result is non-cancer health effects. Chronic and Acute Non-Cancer Hazards results show that the acute and chronic risk on and near the project site would remain below the hazard index of ≥ 1 .

FIGURE-1: PROJECT LOCATION



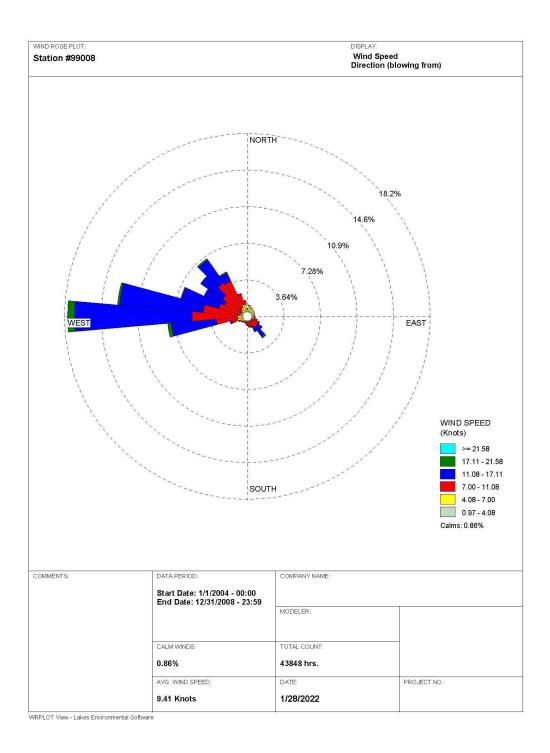
December 2023

FIGURE-2: PROJECT SITE PLAN



December 2023

FIGURE-3: WIND PATTERNS (TRACY, CA - 2004-2008) LOCATION



Sources: Prepared by De Novo Planning group (2022); Lakes Environmental AERMOD View 11.2.0

December 2023

25730 Hansen Rd

FIGURE-4: RESIDENTIAL CANCER RISK - OPERATIONAL (95TH PERCENTILE)

FIGURE-5: WORKPLACE CANCER RISK - OPERATIONAL (95TH PERCENTILE)

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REPORT PREPARERS

This document was prepared by De Novo Planning Group, Inc. of El Dorado Hills under the direction of the City of Tracy. De Novo Planning Group staff participating in document preparation included the following:

- Steve McMurtry, Principal
- Josh Smith, Senior Planner

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Appendix 1 - Emissions Calculations:

Source: EMFAC2021 (v1.0.2) Emission Rates

Region Type: County Region: San Joaquin Calendar Year: 2025 Season: Annual

Vehicle Classification: EMFAC202x Categories
Units: miles/day for CVMT and EVMT, trips/day for Trips, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HOTSOAK and RUNLOSS, g/vehicle/day for IDLEX and DIURN. PHEV calculated based on total VMT.

Region Calendar Year Vehicle Category Model Year Speed Fuel San Joaqui 2025 T7 Tractor Class 8 Aggregate Aggregate Diesel PM10_IDLEX 0.016170576 Source: EMFAC2021 (v1.0.2) Emission Rates

Region Type: County Region: San Joaquin Calendar Year: 2025 Season: Annual

Vehicle Classification: EMFAC202x Categories

Units: miles/day for CVMT and EVMT, g/mile for RUNEX, PMBW and PMTW, mph for Speed, kWh/mile for Energy Consumption, gallon/mile for Fuel Consumption. PHEV calculated based on total VMT.

Region	Calendar Year	Vehicle Category	Model Year	Speed	Fuel	Total VMT	PM10_RUNEX
San Joaquin		2025 T7 Tractor Class 8	Aggregate	10	0 Diesel	1778.14647	0.008423559
San Joaquin		2025 T7 Tractor Class 8	Aggregate	40	0 Diesel	7696.649431	0.008946645

Mobile Truck Emissions - On-site Mobile

meters per mile: 1609.34 pounds per gram: 0.002205

Assumptions:

Source: 1. Distance travelled on-site per truck (line segment)¹: 1.110701 miles AERMOD Kimley Horn EMFAC2021 (v1.0.2) 2. # of trucks per day (total): 612 trucks 4. PM10 Mobile Em. Factor (San Joaquin County, Year 2025 Aggregate MPH, T7 Tractor Class 8:

Note: T7 Tractor Class 8 EF was used for a conservative EF (large truck class). $^{2}\,$ **0.00842356** g/mile

Therefore:

Total daily PM10 On-site Mobile Emissions Generated by the project:

5.72590618 g/day-all trucks 0.01262345 lbs/day-all trucks 4.60755826 lbs/year-all trucks

Max Hr Emissions

As provided by the Kimley Horn Traffic Study:

86 Peak hour truck trips (maximum peak hour truck trips is used for the sake of a conservative analysis)

0.001774 lbs/hour-all trucks

Notes:

¹This assumes that each truck will travel entire site layout, around the largest of the two buildings (i.e. a highly conservative assumption).

²10 MPH Emission factor was utilized for on-site truck travel.

Mobile Truck Emissions - Off-site Mobile - Exit headed West

meters per mile: 1609.34 pounds per gram: 0.002205

Assumptions:

Source: 1. Distance travelled on-site per truck (line segment): 0.71023 miles AERMOD 2. # of truck trips per day (exit only)¹: 612 truck trips Kimley Horn EMFAC2021 (v1.0.2) 3. DPM Mobile EF (San Joaquin County, Year 2025 Aggregate MPH, T7 Tractor Class 8):

Note: T7 Tractor Class 8 EF was used for a conservative EF (large truck class). 2

0.00894665 g/mile

Therefore:

Total daily PM10 On-site Mobile Emissions Generated:

3.88875556 g/day-all trucks 0.00857323 lbs/day-all trucks 3.12922832 lbs/year-all trucks

Max Hr Emissions

As provided by the Kimley Horn Traffic Study: 86 Peak hour truck trips (maximum peak hour truck trips is used for the sake of a conservative analysis)

0.001205 lbs/hour-all trucks

Notes:

¹This represents only half of the total truck trips, as half of the truck trips are 'exit' trips, while the other half are 'entrance trips'.

This line segment calculation only reflects 'exit' trips.

²40 MPH Emission factor was utilized for off-site truck travel.

Mobile Truck Emissions - Off-site Mobile - Entrance from West

meters per mile: 1609.34 0.002205 pounds per gram:

Assumptions:

Source: 1. Distance travelled on-site per truck (line segment): 0.94598 miles AERMOD 2. # of truck trips per day (entrance only)¹: 612 truck trips Kimley Horn EMFAC2021 (v1.0.2)

3. DPM Mobile EF (San Joaquin County, Year 2025 Aggregate MPH, T7 Tractor Class 8):

Note: T7 Tractor Class 8 EF was used for a conservative EF (large truck class).² 0.00894665 g/mile

Therefore:

Total daily PM10 On-site Mobile Emissions Generated by the project:

5.17956857 g/day-all trucks 0.01141898 lbs/day-all trucks 4.16792786 lbs/year-all trucks

Max Hr Emissions

As provided by the Kimley Horn Traffic Study: 86 Peak hour truck trips (maximum peak hour truck trips is used for the sake of a conservative analysis)

0.001605 lbs/hour-all trucks

Notes:

¹This represents only half of the total truck trips, as half of the truck trips are 'exit' trips, while the other half are 'entrance trips'.

This line segment calculation only reflects 'entrance' trips.

²40 MPH Emission factor was utilized for off-site truck travel.

Truck Idling

CARE EMFAC 2021 idling emission factors for 2025 T7 Tractor Class 8 diesel trucks:

Note: This is a highly conservative assumption, as it assumes that the average idling per truck per day would occur entirely within the Project site.
612 Total air of trucks per day Source: EMFAC 2021

Source: Kimley Horn 9,86639277 g/day-all trucks
3612.13336 g/year-all trucks
7.96349168 lbs/year-all trucks

pounds per gram: 0.00220462

As provided by the Kimley Horn Traffic Study:

86 Peak hour truck trips (maximum peak hour truck trips is used for the sake of a conservative analysis)

Annual Emissions: Max Hr Emissions:

0.56882083 lbs/year-all trucks for each of the 0.0002190 lbs/hour-peak hour trucks for each of the

<u>Phase</u>	Average Daily PM10	<u>Days</u>	
Site Preparation	0.01	lbs/day 17	7 Source: CalEEMod (v2022.1)
Phase 1 - Site Finishing (2025)	0.01	lbs/day 42	Source: CalEEMod (v2022.1)
Phase 2 - Site Finishing (2026)	0.02	lbs/day 55	Source: CalEEMod (v2022.1)
Grading (2024)	0.15	lbs/day 125	Source: CalEEMod (v2022.1)
Off-site Grading (2024)	0.005	lbs/day	Source: CalEEMod (v2022.1)
Off-site Grading (2025)	0.2	lbs/day 299	Source: CalEEMod (v2022.1)
Phase 1 - Paving (2025)	0.01	lbs/day 3	7 Source: CalEEMod (v2022.1)
Phase 2 - Paving (2026)	0.005	lbs/day 14	Source: CalEEMod (v2022.1)
Phase 1 - Building Construction (2024)	0.01	lbs/day 8	S Source: CalEEMod (v2022.1)
Phase 1 - Building Construction (2025)	0.22	lbs/day 31:	Source: CalEEMod (v2022.1)
Phase 2 - Building Construction (2025)	0.005	lbs/day	S Source: CalEEMod (v2022.1)
Phase 2 - Building Construction (2026)	0.1	lbs/day 200	Source: CalEEMod (v2022.1)
Off-Site Paving (2025)	0.01	lbs/day 48	S Source: CalEEMod (v2022.1)
Off-site Improvements (2025)	0.08	lbs/day 163	Source: CalEEMod (v2022.1)

182.75 lbs (total)

Given 25 months of total construction activities:

87.72 lbs/year (average)

Max Hr Emissions:

0.060082192 lbs/hour

Note: Assumes max hour is six times average rate

Split into 6 sources:

Split into 6 sources:

14.62 lbs/year (average)

Max Hr Emissions:

0.010013699 lbs/hour

Note: Assumes max hour is six times average rate

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Appendix 2 - Trip Generation Technical Memorandum:

		AM I	AM PEAK HOUR		PM PEAK HOUR			UR		
Land Uses	Project Size	Total Peak Hour	IN	/	OUT	Total Peak Hour	IN	1	OUT	Daily ³
Trip Generation Rates										
Project Use										
Costco Ecommerce Warehouse ¹	- ksf	0.23	94%	/	6%	0.05	21%	/	79%	2.18
Trips Generated										
Building 1	543.326 ksf	125	118	1	7	27	6	1	21	1183
Pa	assenger Cars ²	86	81	1	5	21	5	1	16	802
	Trucks ²	39	37	1	2	6	1	1	5	381
Building 2	1,201.727 ksf	276	259	1	17	60	13	1	47	2,617
Pa	assenger Cars ²	190	179	1	11	47	10	1	37	1774
	Trucks ²	86	80	1	6	13	3	1	10	843
TOTAL			377	1	24	87	19	1	68	3,800
Passenger Cars			260	/	16	68	15	/	53	2,576
	Trucks	125	117	/	8	19	4	/	15	1,224

NOTES

2. ITE guidance for high-cube and warehousing facilities used, 2016. The percentage of passenger car vehicles for Short-Term Storage, Transload, & Cold Storage is the following:

Daily: 67.8% AM: 69.2%

PM: 78.3%

3. Daily trip rate was calculated based on ratios from ITE LU 154.

Trip Rates

	AM	PM	AM+PM	Daily	AM+PM/Daily
ITE LU 154	0.08	0.1	0.18	1.4	12.9%
Costco	0.23	0.05	0.28	2.2	12.9%

^{1.} Trip generation provided by Kittleson Tracy Costco Depot Transportation Impact Analysis Report (August 28, 2017)



MEMORANDUM

From: Frederik Venter, PE and Colin Ogilvie | Kimley-Horn and Associates

To: Robert Armijo, PE | City of Tracy

Date: September 12, 2022

Re: Costco Direct Delivery Center Traffic Analysis

1. Executive Summary

The proposed Costco Direct Delivery Center (Project) consists of two buildings totaling 1,782,317 square feet of warehouse space located south of Old Schulte Road.

The Project proposes three driveways along Old Schulte Road (two signals and one right-in, right-out).

The project will generate 401 AM and 87 PM peak hour trips. In the AM 30.8% and in the PM 21.7% will be trucks, respectively.

The following sections summarize the findings of this report:

Traffic Review

VMT Analysis

The proposed Costco distribution warehouse project was evaluated using the City of Tracy VMT Calculator. For the surrounding industrial land use area, the City's threshold is 9.4 VMT per Employee. The evaluation tool estimates that the Project would generate 24.8 VMT per Employee, and the Project exceeds the threshold by 164%.

TDM Program

This program recommends TDM measures that would individually reduce the Project's VMT and trips with the goal of obtaining a feasible maximum of 15% VMT reduction. **Table 1** lists the toolbox of potential TDM measures that could partially mitigate the Project's VMT impact. Maximum TDM reductions are provided for each TDM element. The applicant will select specific TDM measures in consultation with the City to mitigate the VMT impact.

This TDM program aims to achieve a feasible maximum of 15% VMT reduction, with the opportunity for 13% VMT reduction coming from the VMT Banking Fee Program as discussed after this section.



For the TDM program, the following TDM measures are being proposed:

- 1. Commuting Strategies 1%
 - a. Emergency Ride Home (ERH) Program: The Project will provide an occansional subsidized ride to commuters who use alternative modes. Guaranteed ride home for people if they need to go home in the middle of the day due to an emergency or stay late and need a ride at a time when transit service is not available.
- 2. Shared Mobility Strategies 1%
 - a. Designated Parking for Car Share Vehicles: The Project will provide preferential parking in convient locations in terms of free or reduced parking fees, priority parking, or reserved parking for commuters who carpool, vanpool, ride-share, or use alternatively fueled vehicles.

VMT Banking Fees

The City of Tracy VMT Banking Fee Program is a programmatic approach to respond to the need for feasible VMT mitigation programs. Programmatic approaches that rely on collectively funding larger projects allow a project to obtain an amount of mitigation commensurate with their impact, include only a single payment without the complexity of ongoing management, and do not require on-going mitigation monitoring. Programmatic approaches can also provide a public benefit in terms of funding transportation improvements that would not otherwise be constructed, resulting in improvements to congestion, GHG emissions, increased transportation choices, and additional opportunities for active transportation.

The VMT Banking Fee Program calculates the cost per VMT reduction as \$633.11. Therefore, to achieve a the 13% reduction needed after implementation of the TDM program, the project would be responsible to pay \$510,286.66. This is calculated as 13% being equivalent to a 3.224 VMT per employee reduction. Since there are 250 employees and each employee needs to reduce by 3.224 VMT at a cost of \$633.11 per VMT the calculation is as follows:

VMT Banking Fee = 250 employees x 3.224 VMT per employee x \$633.11 per VMT = \$510,286.66

The VMT banking fee calculation has been provided in **Table 2**. In case that the VMT Banking Fee Program is not in place, the TDM program will need to achieve the full 15% reduction.



Table 1 – TDM Measures

Transportation Demand Management Measure	Description	Max VMT Reduction	Applicant Preferred Measure	VMT Reduction Applied
Parking Strategies				
Reduce Parking Supply	Reduce the number of available parking spots provided to employees.	1%		0%
Unbundle Parking	Remove free parking at the site, and charge employees for parking. The higher the cost of parking, the higher the reduction.	1%		0%
Parking Cash-out	Provide employees a choice of forgoing current parking for a cash payment to be determined by the employer. The higher the cash payment and eligible employees, the higher the reduction.	2%		0%
Transit Strategies			1	T
Transit Stops	Coordinate with local transit agency to provide bus stop near the site. Real time transportation information displays support on-the-go decision making to support sustainable trip making.	1%		0%
Implement Neighborhood Shuttle	Implement project-operated or project-sponsored neighborhood shuttle serving residents, employees, and visitors of the project site	2%		0%
Transit Subsidies	Involves the subsidization of transit fare for residents and employees of the project site. This strategy assumes transit service is already present in the project area. Pays for employees to use local transit. This could either be a discounted ticket or a full-reimbursed transit ticket.	2%		0%
Communication & Informat	tion Strategies			
Travel Behavior Change Program	Involves the development of a travel behavior change program that targets individuals' attitudes, goals, and travel behaviors, educating participants on the impacts of their travel choices and the opportunities to alter their habits. Provide a web site that allows employees to research other modes of transportation for commuting. Employee-focused travel behavior change program that targets individuals' attitudes, goals, and travel behaviors, educating participants on the impacts of their travel choices and the opportunities to alter their habits. DIBS	1%		0%
Promotions & Marketing	Involves the use of marketing and promotional tools to educate and inform travelers about site-specific transportation options and the effects of their travel choices with passive educational and promotional materials. Marketing and public information campaign to promote awareness of TDM program with an onsite coordinator to monitor program. DIBS	1%		0%
Commuting Strategies		T	1	T
Employer Sponsored Vanpool or Shuttle	Implementation of employer-sponsored employee vanpool or shuttle providing new opportunities for access to connect employees to the project site.	2%		0%
Emergency Ride Home (ERH) Program	Provide an occasional subsidized ride to commuters who use alternative modes. Guaranteed ride home for people if they need to go home in the middle of the day due to an emergency or stay late and need a ride at a time when transit service is not available. DIBS	1%	х	1%
Telecommuting Alternative work schedule	Four-Ten work schedule results in 20% weekly VMT reduction, 10% trip reduction equals 15% VMT reduction	7%		0%
On-site Childcare	Provide on-site childcare to remove the need to drive a child to daycare at a separate location.	1%		0%
Shared Mobility Strategies				
Ride Share Program	Increase vehicle occupancy by providing ride-share matching services, designating preferred parking for ride-share participants, designing adequate passenger loading/unloading	2%		0%



Table 1 – TDM Measures

Transportation Demand Management Measure	ment Measure Description		Applicant Preferred Measure	VMT Reduction Applied
	and waiting areas for ride-share vehicles, and providing a			
	website or message board to connect riders and coordinate			
	rides. Need a point person for the business on-site			
Employee/Employer Car Share	Implement car sharing to allow people to have on-demand access to a vehicle, as-needed. This may include providing membership to an existing program located within 1/4 mile, contracting with a third-party vendor to extend membership-based service to an area, or implementing a project-specific fleet that supports the residents and employees on -site.	1%		0%
	Provide an on-site car vehicle for employees to use for short trips. This allows for employees to run errands or travel for lunch.	1%		0%
Designated Parking Spaces for Car Share Vehicles	Reserved car share spaces closer to the building entrance.	1%	х	1%
Bicycle Infrastructure Strat	egies			
Bike Share Program	Participate in a bike share program/On site bike share program	1%		0%
Implement/Improve On- street Bicycle Facility	Implement or provides funding for improvements to corridors and crossings for bike networks identified within a one-half mile buffer area of the project boundary, to support safe and comfortable bicycle travel.	1%		0%
Include Bike Parking Per City Code	Implement short and long-term bicycle parking to support safe and comfortable bicycle travel by providing parking facilities at destinations	1%		0%
Include Secure Bike Parking and Showers	Implement additional end-of-trip bicycle facilities to support safe and comfortable bicycle travel.	1%		0%
Bicycle Repair Station / Services	On-site bicycle repair tools and space to use them supports ongoing use of bicycles for transportation.	1%		0%
Neighborhood Enhanceme	nt Strategies			
Traffic Calming Improvements	Implement traffic calming improvements on streets and intersections throughout and around the project site.	1%		0%
Pedestrian Network Improvements	Implement pedestrian network improvements throughout and around the project site that encourages people to walk.	2%		0%
Miscellaneous Strategies	<u> </u>			
Virtual Care Strategies for Hospitals	Implement options for virtual care for health services for hospitals.	2%		0%
On-Site Affordable Housing	Provide a percentage of on-site affordable housing for employees that is less than 100%.	1%		0%
Job Creation Land Use (e.g. Office)	Provide offices or other job creation land use. Applies to housing projects.	3%		0%



Table 2 - VMT Banking Fees Calculations

Project Building Area (ksf)	1,745.1
Employees per ksf	
Project Employees	250
Project VMT/EMP	24.8
Project Total Employee VMT	6,200.0
Project VMT/EMP Difference	164%
TDM %	2%
Banking Fee %	13%
Project Total Employee VMT	
Reduction for Fee Calculation	806.0
Project Total Employee VMT/EMP	
Reduction for Fee Calculation	3.224
Banking Fee \$	\$ 510,286.66

Background Plus Project

Deficiencies in LOS operations, exacerbated or caused by the project, will either be fully or partially eliminated by implementing the following improvements for Background conditions. Background conditions include Existing plus approved project traffic on the study road network. All improvements listed were also identified in the Cordes Phase 2nd Consistency Analysis (June 2020) except for Intersection #11 which is triggered by the Costco project.

- Intersection #1 International Parkway & I-205 Westbound Ramps (AM Peak Hour)
 - Restripe westbound off-ramp to provide two left-turn lanes and one shared through/right lane and optimize signal timings per Cordes Ranch Specific Plan Final EIR TRANS-1 mitigation measure.
 - o AM intersection operations improve from an LOS F to a LOS A.
- Intersection #3 International Parkway & Old Schulte Road (AM and PM Peak Hours)
 - O Per the Final Traffic Operations Analysis Report (FTOAR) For the Interstate 580/International Parkway/Patterson Pass Road Interchange in Tracy, CA, a diverging diamond interchange should be constructed at Intersections #4 & #5. The FTOAR recommended an additional northbound right turn at Intersection #3 and to restripe the existing eastbound outside shared through/right lane to be a dedicated eastbound right turn.
 - o Refer to the FTOAR for more information regarding LOS improvements.
- Intersection #4 International Parkway & I-580 Westbound Ramps (AM and PM Peak Hours)
 - A diverging diamond interchange is in the PSE design phase. The City of Tracy and Caltrans
 are going through design approvals to have the new interchange constructed in the near
 term
 - Refer to the FTOAR for more information regarding LOS improvements.
- Intersection #5 International Parkway & I-580 Eastbound Ramps (AM and PM Peak Hours)



- A diverging diamond interchange is in the PSE design phase. The City of Tracy and Caltrans
 are going through design approvals to have the new interchange constructed in the near
 term.
- o Refer to the FTOAR for more information regarding LOS improvements.
- Intersection #6 Hansen Road & Old Schulte Road (AM Peak Hour)
 - Add one additional westbound and eastbound through lane at the intersection to establish a 4-lane facility. Old Schulte Road will remain a 2-lane facility over the Delta-Mendota Canal Bridge.
 - o AM intersection operations improve from LOS E to LOS C.
- Intersection #11 Lammers Road & Old Schulte Road (AM Peak Hour)
 - o Provide an overlap phase for the eastbound right turn.
 - o AM intersection operations improve from LOS E to LOS D.
- Intersection #12 Lammers Road & Western Pacific Way (AM Peak Hour)
 - Signalize and construct a northbound right-turn and southbound left-turn lanes plus the median of the future widening.
 - o AM intersection operations improve from LOS F to LOS C.
- Intersection #13 Lammers Road & Valpico Road (AM Peak Hour)
 - Signalize intersection and construct a southbound left-turn lane. It is anticipated that widening to a four-lane roadway will occur from Old Schulte Road to Valpico Road with subsequent intersection improvements.
 - AM intersection operations improve from LOS F to LOS C
- The project shall, at a minimum, provide emergency access to the future Hansen Road. It is anticipated that the property immediately west of the Project site (APN 209-23-025) may develop in the near future and that Hansen Road will be extended to Old Schulte Road.

Table 3 provides a summary of improvements as well as the Costco Obligations for the Background Plus Project Conditions.

Cumulative Plus Project

No additional improvements have been identified for Cumulative Conditions, The Project will, however, pay the City TIF fees.



Table 3 - Costco Obligations (Background Plus Project Conditions)

Costco	Intersection	Peak	Background Plus Project Co	nditions	
Intersection #	/Location	Hour	Improvement	Recommended Costco Improvement?	Costco Project Obligation
1	International Pkwy & I-205 WB Ramps	АМ	Restripe westbound off-ramp to provide two left-turn lanes and one shared through/right lane and optimize signal timings per Cordes Ranch Specific Plan Final EIR TRANS-1 mitigation measure.	Υ	Costco will construct improvements if not already implemented by another development and may collect contributions from future benefitting developments. If improvement is already constructed, Costco shall pay a fair share contribution towards improvements.
3	International Pkwy & Old Schulte Rd	AM & PM	Per the Final Traffic Operations Analysis Report (FTOAR) For the Interstate 580/International Parkway/Patterson Pass Road Interchange in Tracy, CA, a diverging diamond interchange should be constructed at Intersections #4 & #5. The FTOAR recommended an additional northbound right turn at Intersection #3 and to restripe the existing eastbound outside shared through/right lane to be a dedicated eastbound right turn.	Υ	Costco will construct improvements if not already implemented by another development and may collect contributions from future benefitting developments. If improvement is already constructed, Costco shall pay a fair share contribution towards improvements.
4	International Pkwy & I-580 WB	AM & PM	A diverging diamond interchange is in the PSE design phase. The City of Tracy and Caltrans are going through design approvals to have the new interchange constructed in the near term.	Impact Fees	Pay TIF
5	International Pkwy & I-580 EB	AM & PM	A diverging diamond interchange is in the PSE design phase. The City of Tracy and Caltrans are going through design approvals to have the new interchange constructed in the near term.	Impact Fees	Pay TIF
6 ¹	Hansen Road & Old Schulte Rd	AM	Add one additional westbound and eastbound through lane at the intersection to establish a 4-lane facility. Old Schulte Road will remain a 2-lane facility over the Delta-Mendota Canal Bridge.	Y	Costco to implement
11	Lammers Rd & Old Schulte Rd	AM	Provide an overlap phase for the eastbound right turn.	Y	Costco to implement
121	Lammers Rd & Western Pacific Way	АМ	Signalize and construct a northbound right-turn and southbound left-turn lanes plus the median of the future widening.	Y	Costco will construct improvements if not already implemented by another development and may collect contributions from future benefitting developments. If improvement is already constructed, Costco may pay a fair share contribution towards improvements.
13	Lammers Rd & Valpico Rd	АМ	Signalize intersection and construct a southbound left-turn lane. It is anticipated that widening to a four-lane roadway will occur from Old Schulte Road to Valpico Road with subsequent intersection improvements.	Y	Costco will construct improvements if not already implemented by another development and may collect contributions from future benefitting developments. If improvement is already constructed, Costco may pay a fair share contribution towards improvements.

Notes:

^{1.} Costco will construct improvement if not already implemented by another development. This improvement is anticipated to be included in the City of Tracy Transportation Master Plan (TMP) Fee Program Update. If included, Costco could receive reimbursement for improvements within the fee program.

^{2.} Kimley-Horn traffic study identified TIF, this is not reflected in the conditions.



Engineering Review

Table 4 provides the summary of the engineering comments for the Project.

<u>Table 4 – Engineering Review Summary</u>

Section	Recommendations/Comments
Driveway Access Review	 Driveway #1 - Revise striping to the following: 1 left turn and 1 through/right turn lane. Driveway #2 - Provide Stop (R1-1), Right Turn Only (R3-5R), and One Way (R6-1) signage. Driveway #3 - A left turn lane and a right turn pocket are needed for the signal. Emergency vehicle access(es) may be required off Hansen Road.
Internal Circulation Review	 Approximately 100 feet is provided between Old Schulte Road and the internal drive aisle. This is only enough space for 4 passenger car vehicles or 1 STAA and 1 passenger car vehicle per lane. Since this is the only location where a passenger car can perform a left turn out of the site, this is not adequate during the shift change peaks. To alleviate congestion at this point, it is recommended to provide an eastbound U-turn lane (that could potentially convert to a future left turn lane) at the Old Schulte Road and Project Driveway #3 signalized intersection. At Project Driveway #1, the northern internal crosswalk should be removed as this will conflict with vehicles entering and exiting the Project. This crossing should occur at the signal instead or at the southern internal crosswalk. Provide a three way stop at the Project Driveway #1 internal intersection with the inbound movement as the free movement. No project detail is known for the eastern adjacent parcel that will share Project Driveway #3. The cross access shown will be reviewed in the future, once a development application is submitted for the adjacent parcel. Provide clear signage and/or pavement markings for trucks entering Project Driveway #3 that designates security versus bypass lanes. Provide truck turning templates at reverse curve within Project Driveway #3.
Vehicle Turning Templates	 STAA trucks are unable to perform northbound right turn at Driveways #1. Design modifications to the proposed curb are required to allow STAA trucks to perform necessary movements to access the site. STAA trucks are unable to perform eastbound and northbound right turns at Driveways #3. Design modifications to the proposed curb are required to allow STAA trucks to perform necessary movements to access the site. A westbound left turn must be provided at Driveway #3 and it must accommodate a STAA truck turning template.
External Network Review	 Provide more detail on the transitions between existing conditions on both the east and west end of the Project limits. Provide the striping at the intersection of Old Schulte Road and Project Driveway #3. This approach must include a westbound left turn pocket that can accommodate a CA-STAA truck. Revise the signing and striping for the southbound movement at Old Schulte Road and Bud Lyons Way. Provide one left turn and one through/right lane. The Westbound right turn lane at the intersection of Old Schulte Road and Bud Lyons is existing and should be shown on the plan set. Provide eastbound shoulder stripe. Lengthen the westbound left turn lane at Project Driveway #1 to accommodate 375 feet of deceleration and 150 feet of storage. Emergency vehicles access(es) may be required off Hansen Road. In addition, the City typically requires all street frontage improvements to be constructed by the Project developer.



2. Introduction

This memorandum presents a traffic review of the Costco Direct Delivery Center (Project) located south of Old Schulte Road (West Schulte Road) and north of the proposed Hansen Road Extension in Tracy, California. The Project consists of two warehouse buildings:

Building 1: 543,326 Square Feet
Building 2: 1,201,727 Square Feet
Total: 1,745,053 Square Feet

Figure 1 provides a Project vicinity map. The Project is located on agricultural land in the City of Tracy Sphere of Influence. Adjacent development includes industrial uses in the County of San Joaquin and Cordes Ranch. Regional access to the site is via I-205 and I-580 via the Mountain House and Patterson Pass interchanges, respectively. Additional industrial development is also occurring to the east of the Project site, and the future Westside Specific Plan area is located to the northeast of the site. The Project will be annexed into the City.

The Project site plan is shown in **Figure 2**. The Project proposes three access points along Old Schulte Road (two signals and one right-in, right-out) and none along the future Hansen Road.

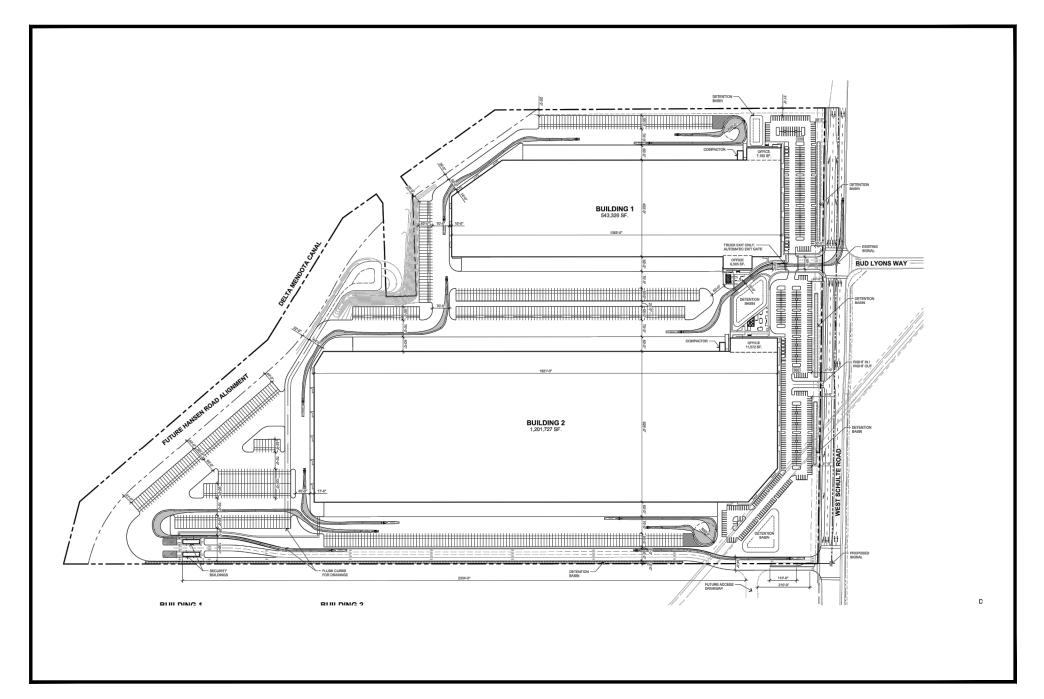
Figure 1







imley≫Horn







3. VMT Analysis

VMT Calculations

In 2018, the California state legislature, in approving Senate Bill (SB) 743, directed the Office of Planning and Research to develop guidelines for assessing transportation impacts based on vehicle miles traveled, or VMT. In response to SB 743, CEQA and its implementing guidelines (CEQA Guidelines) were significantly amended regarding the methods by which lead agencies are to evaluate a project's transportation impacts. As described in CEQA Guidelines Section 15064.3(a):

Generally, vehicle miles traveled is the most appropriate measure of transportation impacts. For the purposes of this section, "vehicle miles traveled" refers to the amount and distance of automobile travel attributable to a project. Other relevant considerations may include the effects of the project on transit and non-motorized travel. Except as provided in subdivision (b)(2) below (regarding roadway capacity), a project's effect on automobile delay shall not constitute a significant environmental impact.

This section of the Guidelines continues to set forth the criteria for analyzing transportation impacts. Currently, the City is studying their own thresholds, but none have been adopted.

In 2013, SB 743 was signed into law by California Governor Jerry Brown with a goal of reducing Greenhouse Gas (GHG) emissions, promoting the development of infill land use projects and multimodal transportation networks, and to promote a diversity of land uses within developments. One significant outcome resulting from this statue is the removal of automobile delay and congestion, commonly known as Level of Service (LOS), as a basis for determining significant transportation impacts under the California Environmental Quality Act (CEQA).

The Governor's Office of Planning and Research (OPR) has documented recommended analysis guidelines for SB 743 in its *Technical Advisory on Evaluating Transportation Impacts in CEQA* (2018) which provides for Vehicle Miles Traveled (VMT) as the principal measure to replace LOS for determining significant transportation impacts. VMT is a measure of total vehicular travel that accounts for the number of vehicle trips and the length of those trips. OPR selected VMT, in part, because jurisdictions are already familiar with this metric. VMT is already used in CEQA to study other potential impacts such as Greenhouse Gases (GHG), air quality, and energy impacts and is used in planning for regional Sustainable Communities Strategies (SCS).

VMT also allows for an analysis of a project's impact throughout the City rather than only in the vicinity of the proposed project, allowing for a better understanding of the full extent of a project's transportation-related impact. It should be noted that SB 743 still allows the City of Tracy to use LOS for other planning purposes outside the scope of CEQA.

Understanding how the local roadway network functions from an engineering standpoint is still critical to local land use agencies to monitor traffic flow, identify safety issues, establish fees and manage congestion. However, for the purposes of evaluating environmental impacts under CEQA, the new regulations have removed congestion from the range of required subjects analyzed within CEQA documents.

The proposed Costco Direct Delivery Center project was evaluated using the City of Tracy VMT Calculator. For the surrounding industrial land use area, the City's threshold is 9.4 VMT per Employee. The evaluation



tool estimates that the Project would generate 24.8 VMT per Employee, and the Project exceeds the threshold by 164%.

Per the City's VMT threshold and SB 743 guidelines, the Project causes a significant transportation impact. For projects that would cause a VMT impact, VMT reduction strategies such as introducing transportation demand management (TDM), or additional multimodal infrastructure can be implemented to reasonably mitigate the VMT impact which is estimated from research literature and case studies.

Potential Mitigations

The Project exceeds the City threshold by 164% and this reduction is not feasible. The California Air Pollution Control Officers Association (CAPCOA) indicates that up to 15% of VMT reduction can reasonably be achieved. The Project has the option to "purchase" additional VMT from the VMT banking fee above 15%. For the purpose of this report, a maximum of 15% is assumed.

TDM Program

This program recommends TDM measures that would individually reduce the Project's VMT and trips with the goal of obtaining a feasible maximum of 15% VMT reduction. **Table 5** lists the toolbox of potential TDM measures that could partially mitigate the Project's VMT impact. Maximum TDM reductions are provided for each TDM element. The applicant will select specific TDM measures in consultation with the City to partially mitigate the VMT impact.

This TDM program aims to achieve a feasible maximum of 15% VMT reduction, with the opportunity for 13% VMT reduction coming from the VMT Banking Fee Program as discussed after this section. In the case that the VMT Banking Fee is not in place, the TDM program will need to achieve the full 15% reduction.

For the TDM program, the following TDM measures are being proposed:

- 1. Commuting Strategies 1%
 - a. Emergency Ride Home (ERH) Program: The Project will provide an occansional subsidized ride to commuters who use alternative modes. Guaranteed ride home for people if they need to go home in the middle of the day due to an emergency or stay late and need a ride at a time when transit service is not available.
- 2. Shared Mobility Strategies 1%
 - a. Designated Parking for Car Share Vehicles: The Project will provide preferential parking in convient locations in terms of free or reduced parking fees, priority parking, or reserved parking for commuters who carpool, vanpool, ride-share, or use alternatively fueled vehicles.

VMT Banking Fees

The City of Tracy VMT Banking Fee Program is a programmatic approach to respond to the need for feasible VMT mitigation programs. Programmatic approaches that rely on collectively funding larger projects allow a project to obtain an amount of mitigation commensurate with their impact, include only a single payment without the complexity of ongoing management, and do not require on-going mitigation monitoring. Programmatic approaches can also provide a public benefit in terms of funding transportation



improvements that would not otherwise be constructed, resulting in improvements to congestion, GHG emissions, increased transportation choices, and additional opportunities for active transportation.

The VMT Banking Fee Program calculates the cost per VMT reduction as \$633.11. Therefore, to achieve a the 13% reduction needed after implementation of the TDM program, the project would be responsible to pay \$510,286.66. This is calculated as 13% being equivalent to a 3.224 VMT per employee reduction. Since there are 250 employees and each employee pneeds to reduce by 3.224 VMT at a cost of \$633.11 per VMT the calculation is as follows:

VMT Banking Fee = 250 employees \times 3.224 VMT per employee \times \$633.11 per VMT = \$510,286.66

The VMT banking fee calculation has been provided in **Table 6**.

Table 5 – TDM Measures

Transportation Demand Management Measure	Description	Max VMT Reduction	Applicant Preferred Measure	VMT Reduction Applied
Parking Strategies				
Reduce Parking Supply	Reduce the number of available parking spots provided to employees.	1%		0%
Unbundle Parking	Remove free parking at the site, and charge employees for parking. The higher the cost of parking, the higher the reduction.	1%		0%
Parking Cash-out	Provide employees a choice of forgoing current parking for a cash payment to be determined by the employer. The higher the cash payment and eligible employees, the higher the reduction.	2%		0%
Transit Strategies Strategi	es			
Transit Stops	Coordinate with local transit agency to provide bus stop near the site. Real time transportation information displays support on-the-go decision making to support sustainable trip making.	1%		0%
Implement Neighborhood Shuttle	Implement project-operated or project-sponsored neighborhood shuttle serving residents, employees, and visitors of the project site	2%		0%
Transit Subsidies	Involves the subsidization of transit fare for residents and employees of the project site. This strategy assumes transit service is already present in the project area. Pays for employees to use local transit. This could either be a discounted ticket or a full-reimbursed transit ticket.	2%		0%
Communication & Informa	ation Strategies		l	l
Travel Behavior Change Program	Involves the development of a travel behavior change program that targets individuals' attitudes, goals, and travel behaviors, educating participants on the impacts of their travel choices and the opportunities to alter their habits. Provide a web site that allows employees to research other modes of transportation for commuting. Employee-focused travel behavior change program that targets individuals' attitudes, goals, and travel behaviors, educating participants on the impacts of their travel choices and the opportunities to alter their habits. DIBS	1%		0%
Promotions & Marketing	Involves the use of marketing and promotional tools to educate and inform travelers about site-specific transportation options and the effects of their travel choices with passive educational and promotional materials. Marketing and public information campaign to promote awareness of TDM program with an on-site coordinator to monitor program. DIBS	1%		0%
Commuting Strategies				
Employer Sponsored Vanpool or Shuttle	Implementation of employer-sponsored employee vanpool or shuttle providing new opportunities for access to connect employees to the project site.	2%		0%



Table 5 – TDM Measures

Transportation Demand Management Measure	Max VMT Reduction	Applicant Preferred Measure	VMT Reduction Applied	
Emergency Ride Home (ERH) Program	Provide an occasional subsidized ride to commuters who use alternative modes. Guaranteed ride home for people if they need to go home in the middle of the day due to an emergency or stay late and need a ride at a time when transit service is not available. DIBS	1%	x	1%
Telecommuting Alternative work schedule	Four-Ten work schedule results in 20% weekly VMT reduction, 10% trip reduction equals 15% VMT reduction	7%		0%
On-site Childcare	Provide on-site childcare to remove the need to drive a child to daycare at a separate location.	1%		0%
Shared Mobility Strategies	5			
Ride Share Program	Increase vehicle occupancy by providing ride-share matching services, designating preferred parking for ride-share participants, designing adequate passenger loading/unloading and waiting areas for ride-share vehicles, and providing a website or message board to connect riders and coordinate rides. Need a point person for the business on-site	2%		0%
Employee/Employer Car Share	Implement car sharing to allow people to have on-demand access to a vehicle, as-needed. This may include providing membership to an existing program located within 1/4 mile, contracting with a third-party vendor to extend membership-based service to an area, or implementing a project-specific fleet that supports the residents and employees on -site.	1%		0%
	Provide an on-site car vehicle for employees to use for short trips. This allows for employees to run errands or travel for lunch.	1%		0%
Designated Parking Spaces for Car Share Vehicles	Reserved car share spaces closer to the building entrance.	1%	х	1%
Bicycle Infrastructure Stra	tegies			
Bike Share Program	Participate in a bike share program/On site bike share program	1%		0%
Implement/Improve On- street Bicycle Facility	Implement or provides funding for improvements to corridors and crossings for bike networks identified within a one-half mile buffer area of the project boundary, to support safe and comfortable bicycle travel.	1%		0%
Include Bike Parking Per City Code	Implement short and long-term bicycle parking to support safe and comfortable bicycle travel by providing parking facilities at destinations	1%		0%
Include Secure Bike Parking and Showers	Implement additional end-of-trip bicycle facilities to support safe and comfortable bicycle travel.	1%		0%
Bicycle Repair Station / Services	On-site bicycle repair tools and space to use them supports ongoing use of bicycles for transportation.	1%		0%
Neighborhood Enhanceme	ent Strategies			
Traffic Calming Improvements	Implement traffic calming improvements on streets and intersections throughout and around the project site.	1%		0%
Pedestrian Network Improvements	Implement pedestrian network improvements throughout and around the project site that encourages people to walk.	2%		0%
Miscellaneous Strategies				
Virtual Care Strategies for Hospitals	Implement options for virtual care for health services for hospitals.	2%		0%
On-Site Affordable Housing	Provide a percentage of on-site affordable housing for employees that is less than 100%.	1%		0%
Job Creation Land Use (e.g. Office)	Provide offices or other job creation land use. Applies to housing projects.	3%		0%



Table 6 – VMT Banking Fees Calculations

Project Building Area (ksf)	1,745.1
Employees per ksf	
Project Employees	250
Project VMT/EMP	24.8
Project Total Employee VMT	6,200.0
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Project Total Employee VMT	
Reduction for Fee Calculation	806.0
Project Total Employee VMT/EMP	
Reduction for Fee Calculation	3.224
Banking Fee \$	\$ 510,286.66

4. Analysis Methodology

Study Intersections

The following intersections were analyzed for this study:

- 1. International Pkwy & I-205 WB Ramps
- 2. International Pkwy & I-205 EB Ramps
- 3. International Pkwy & Old Schulte Rd
- 4. International Pkwy & I-580 WB Ramps
- 5. International Pkwy & I-580 EB Ramps
- 6. Hansen Rd & Old Schulte Rd
- 7. Bud Lyons Wy/Project Driveway #1 & Old Schulte Rd
- 8. Project Driveway #2 & Old Schulte Rd
- 9. Project Driveway #3 & Old Schulte Rd
- 10. Pavillion Pkwy & Old Schulte Rd
- 11. Lammers Rd & Old Schulte Rd
- 12. Lammers Rd & Western Pacific Wy
- 13. Lammers Rd & Valpico Rd

These intersections were selected based on the City threshold established in the City of Tracy Transportation Master Plan and the General Plan. The intersection analysis will not be used for CEQA purposes but only for conditions of approval for implementing engineering improvements.

Study Conditions

The following scenarios were analyzed to determine if the Project causes study intersections to degrade to an unacceptable level of service (LOS):

- Background Conditions represents the following:
 - o Existing traffic counts
 - May 2019 traffic counts



- One supplemental count at Old Schulte Road and Bud Lyons Way was collected on November 19, 2020 from 5:00 AM to 8:00 AM and 3:00 PM to 6:00 PM while the COVID-19 pandemic and associated shelter in place restrictions were in effect. The industrial facilities near the count location were operational and counts were reviewed against pre-pandemic volumes and deemed acceptable to use for this study.
- Plus Approved but unconstructed projects' traffic volumes
 - Cordes Ranch Scheme 170A Transportation Impact Analysis dated November 1, 2017
 - Cordes Ranch 2nd Consistency Analysis (Phase 1K) Traffic Study Memorandum dated June 30, 2020
- **Background Plus Project Conditions** represents Background Conditions plus traffic generated by the proposed Project
- Cumulative Conditions represents the following:
 - Future 2035 volumes derived from the City of Tracy Travel Demand Model, excluding the Project site traffic
 - Plus Project trips from the Cordes Ranch 2nd Consistency Analysis (Phase 1K) Traffic Study Memorandum dated June 30th, 2020
- **Cumulative Plus Project Conditions** represents Cumulative Conditions along with traffic generated by the proposed Project

5. **Background Conditions**

Background Conditions are based on Existing Conditions traffic volumes plus traffic generated by approved but unconstructed projects. Background Conditions also assumed an updated roadway network reflecting the Cordes Ranch Phase 1K street improvement plan.

The Background Conditions roadway network is shown in **Figure 3**. The Background Conditions lane geometry is shown in **Figure 4** and traffic volumes are shown in **Figure 5**.

Results of the Background Conditions level of service analysis are presented in **Table 7**. All intersections operated at acceptable levels of service except for the following:

- Intersection #1 International Pkwy & I-205 WB Ramps (AM Peak Hour)
- Intersection #3 International Pkwy & Old Schulte Rd (AM and PM Peak Hours)
- Intersection #4 International Pkwy & I-580 WB Ramps (AM and PM Peak Hours)
- Intersection #5 International Pkwy & I-580 EB Ramps (AM and PM Peak Hours)
- Intersection #6 Hansen Rd & Old Schulte Rd (AM Peak Hour)
- Intersection #7 Bud Lyons Wy/Project Driveway #1 & Old Schulte Rd (AM Peak Hour)
- Intersection #10 Pavillion Pkwy & Old Schulte Rd (AM Peak Hour)
- Intersection #12 Lammers Rd & Western Pacific Wy (AM Peak Hour)
- Intersection #13 Lammers Rd & Valpico Rd (AM Peak Hour)

Analysis output sheets for Background Conditions are provided in the **Appendix**.

Background Conditions Overview Map Costco Depot Traffic Analysis

Figure 3

NOT TO SCALE



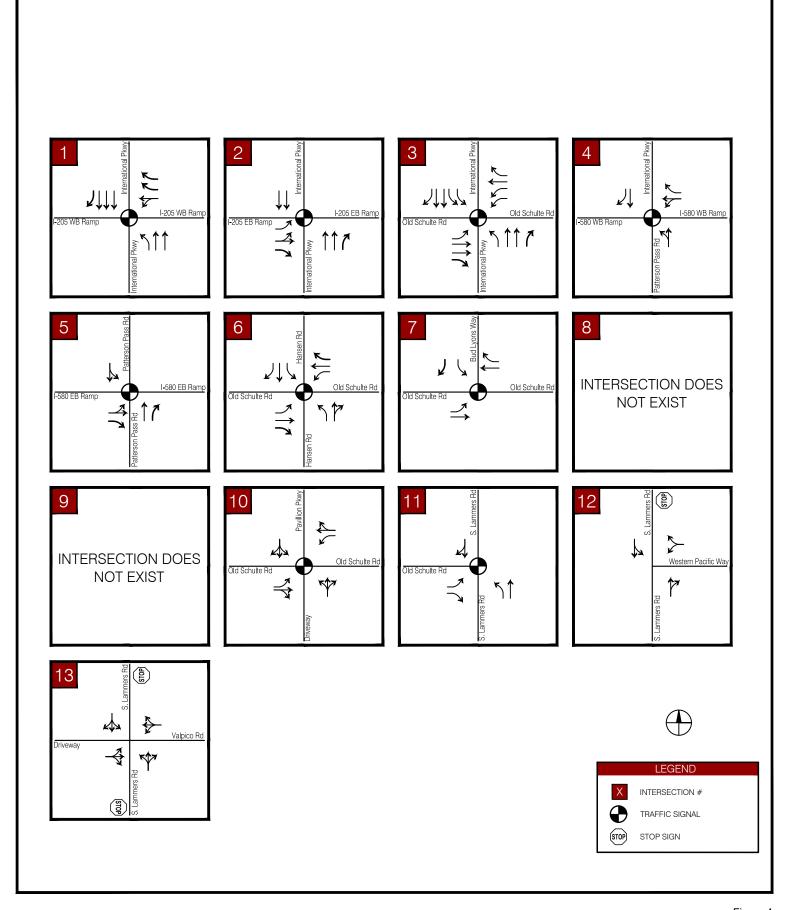
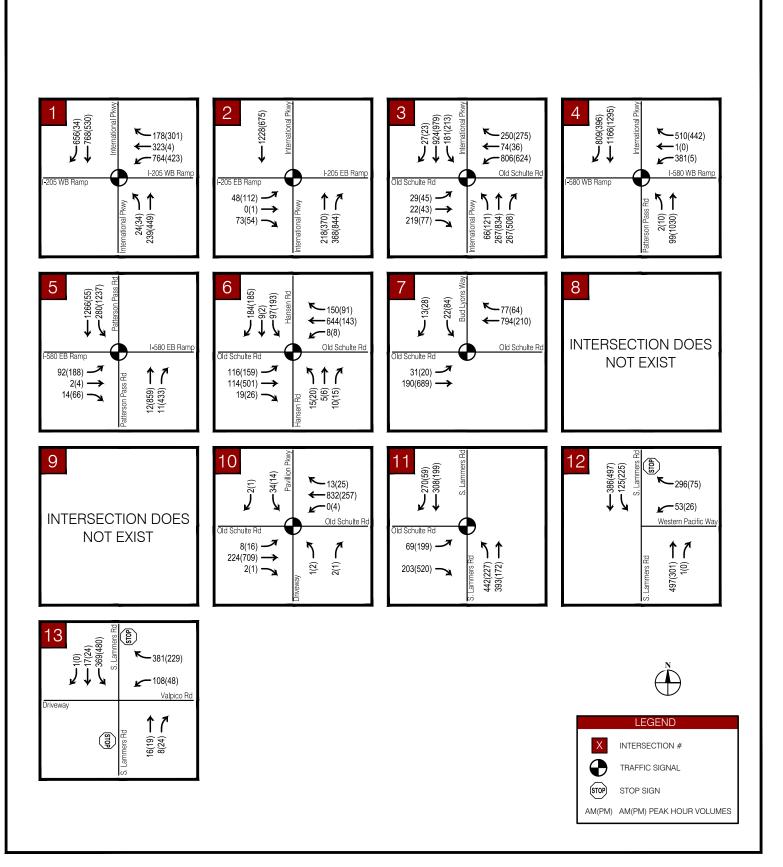




Figure 4

Background Conditions

Lane Geometry and Traffic Control







<u>Table 7 – Background Conditions LOS Summary Results</u>

				Background Conditions							
#	Intersection	Agency	Control	P	AM Peak		Р	M Peak			
				MVMT	Delay	LOS	MVMT	Delay	LOS		
1	International Pkwy & I-205 WB Ramps	Caltrans	Signal	-	229.2	F	-	13.4	В		
2	International Pkwy & I-205 EB Ramps	Caltrans	Signal	-	6.1	Α	-	12.5	В		
3	International Pkwy & Old Schulte Rd	Tracy	Signal	-	146.9	F	-	150.9	F		
4	International Pkwy & I-580 WB Ramps	Caltrans	Signal	-	369.7	F	-	427.4	F		
5	International Pkwy & I-580 EB Ramps	Caltrans	Signal	-	160.8	F	-	424.1	F		
6	Hansen Road & Old Schulte Rd	Tracy	Signal	-	58.0	E	-	37.0	D		
7	Bud Lyons Wy/Project Dwy #1 & Old Schulte Rd	Tracy	Signal	-	91.4	F	-	9.4	Α		
	Project Dwy #2 & Old Schulte Rd	T		Intersection Dags Not Exist							
8	Worst Approach	Tracy	-	Intersection Does Not Exist							
9	Project Dwy #3 & Old Schulte Rd	Tracy	-		Inte	rsection	Does Not Ex	(it			
10	Pavillion Pkwy & Old Schulte Rd	Tracy	Signal	-	19.9	В	-	11.9	В		
11	Lammers Rd & Old Schulte Rd	Tracy	Signal	-	52.9	D	-	32.6	С		
12	Western Pacific Wy & Old Schulte Rd	Troov	TWCC	-	-	-	-	-	-		
12	Worst Approach	Tracy	TWSC	WB	114.6	F	WB	24.1	С		
12	Lammers Rd & Valpico Rd	T	TMCC	-	-	-	-	-	-		
13	Worst Approach	Tracy	TWSC	WB	92.3	F	WB	26.8	D		

Note:

- 1 Analysis performed using HCM 6 methodologies
- 2 Delay indicated in seconds/vehicle
- 3 Caltrans level of service (LOS) standard is C/D. City of Tracy LOS standard is D except that LOS E acceptable within 1/4-mile of freeway interchanges (#3).
- 4 Intersections that fall below Caltrans or City standards are shaded and shown in **bold**.
- 5 AWSC = All-Way Stop Control, TWCS = Two-Way Stop Control, Signal = Signal Control



6. Trip Generation, Distribution, and Assignment

Trip Generation

Trip generation for the proposed Costco development was calculated using the E-Commerce trip generation rates provided by Kittleson's *Tracy Costco Depot Transportation Impact Analysis Report* (August 28, 2017). These rates were then split into passenger car and truck trips based on ITE guidance for high-cube and warehousing facilities. These rates were compared against the City trip rates and ITE trip rates. The e-commerce rates from Costco are higher than the City and ITE trip rates.

The proposed Project is anticipated to generate 401 AM peak hour (377 IN / 24 OUT) and 87 PM peak hour (19 IN / 68 OUT) gross trips.

Table 8 - Trip Generation

	Project Size		Al	Л PEAK	HOU	R	PM PEAK HOUR					
Land Uses			Total Peak Hour	IN	1	OUT	Total Peak Hour	IN	/	OUT		
Trip Generation Rates	Trip Generation Rates											
Project Use												
Costco E-commerce Warehouse ¹	-	KSF	0.23	94%	1	6%	0.05	21%	/	79%		
Trips Generated												
Building 1	543.326	KSF	125	118	1	7	27	6	1	21		
	Passenger	Cars ²	86	81	1	5	21	5	1	16		
	Т	rucks ²	39	37	1	2	6	1	1	5		
Building 2	1,201.727	KSF	276	259	1	17	60	13	1	47		
	Passenger	Cars ²	190	179	1	11	47	10	1	37		
	Т	rucks ²	86	80	1	6	13	3	1	10		
	401	377	1	24	87	19	1	68				
	276	260	/	16	68	15	/	53				
	7	rucks	125	117	/	8	19	4	/	15		

NOTES

Daily: 67.8% AM: 69.2% PM: 78.3%

Trip Distribution and Assignment

Project Background Conditions

Trips were distributed along the roadway network based on the Cordes Ranch EIR. The following provides the passenger car distribution for Project Background Conditions:

- 23% to/from the east along I-580
- 3% to/from the west along I-580
- 2% to/from the west along I-205

^{1.} Trip generation provided by Kittleson's Tracy Costco Depot Transportation Impact Analysis Report (August 28, 2017).

^{2.} ITE's *High-Cube Warehouse Vehicle Trip Generation Analysis*, 2016. The percentage of passenger car vehicles for Short-Term Storage, Transload, & Cold Storage is the following:



- 15% to/from the north along Mountain House Parkway
- 26% to/from the east along I-205
- 6% to/from the north along Lammers Road
- 23% to/from the east along Valpico Road
- 2% to/from the south along Lammers Road

The following provides the assumed truck distribution that was provided by Kittelson:

- 37% to/from the east along I-580
- 19% to/from the west along I-580
- 11% to/from the west along I-205
- 33% to/from the east along I-205

Refer to **Figure 6** and **Figure 7** for the Project Background Conditions passenger car trip distribution and assignment, respectively. Refer to **Figure 8** and **Figure 9** for the Project Background Conditions truck trip distribution and assignment, respectively.

Project Cumulative Conditions

The following provides the passenger car distribution derived from the City's 2035 travel demand model for Project Cumulative Conditions:

- 12% to/from the east along I-580
- 3% to/from the west along I-580
- 2% to/from the west along I-205
- 15% to/from the north along Mountain House Parkway
- 26% to/from the east along I-205
- 10% to/from the north along Lammers Road
- 10% to/from the east along Promontory Parkway
- 9% to/from the east along Valpico Road
- 6% to/from the south along Lammers Road
- 7% to/from the east along Hansen Road

The assumed truck distribution remained the same between Project Background and Project Cumulative Conditions. Refer to **Figure 10** and **Figure 11** for the Project Cumulative Conditions passenger car trip distribution and assignment, respectively. Refer to **Figure 12** and **Figure 13** for the Project Cumulative Conditions truck trip distribution and assignment, respectively. Trips for the Project Cumulative Conditions are based on the trip generation provided in **Table 8**.

Figure 6
Passenger Car Project Trip Distribution
Background Plus Project Conditions
Costco Depot Traffic Analysis





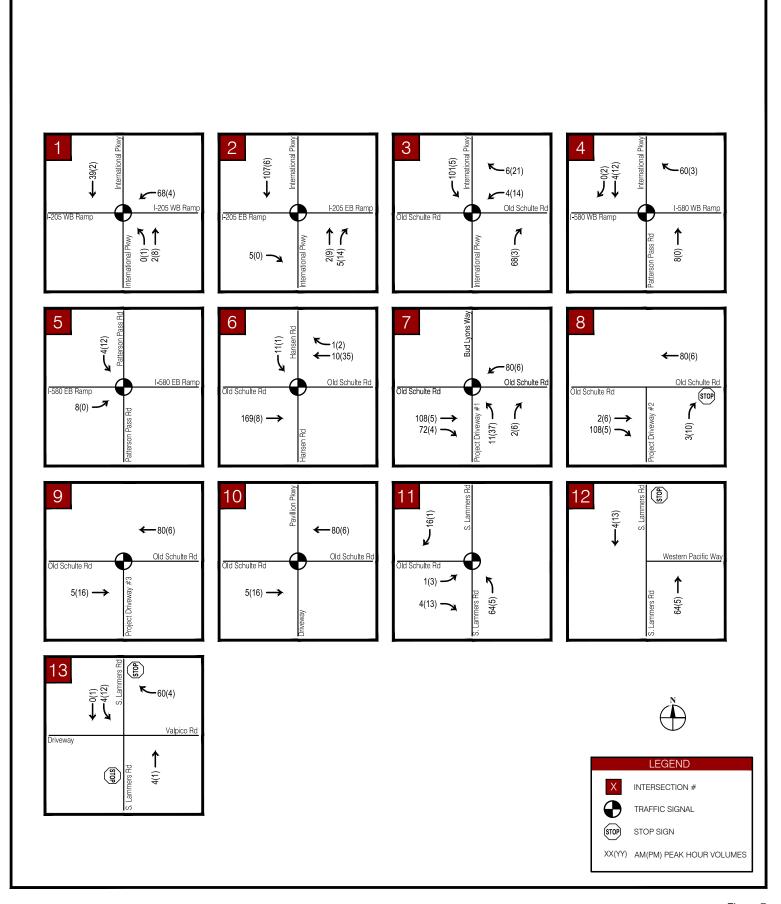




Figure 7

Figure 8
Truck Project Trip Distribution
Background Plus Project Conditions
Costco Depot Traffic Analysis





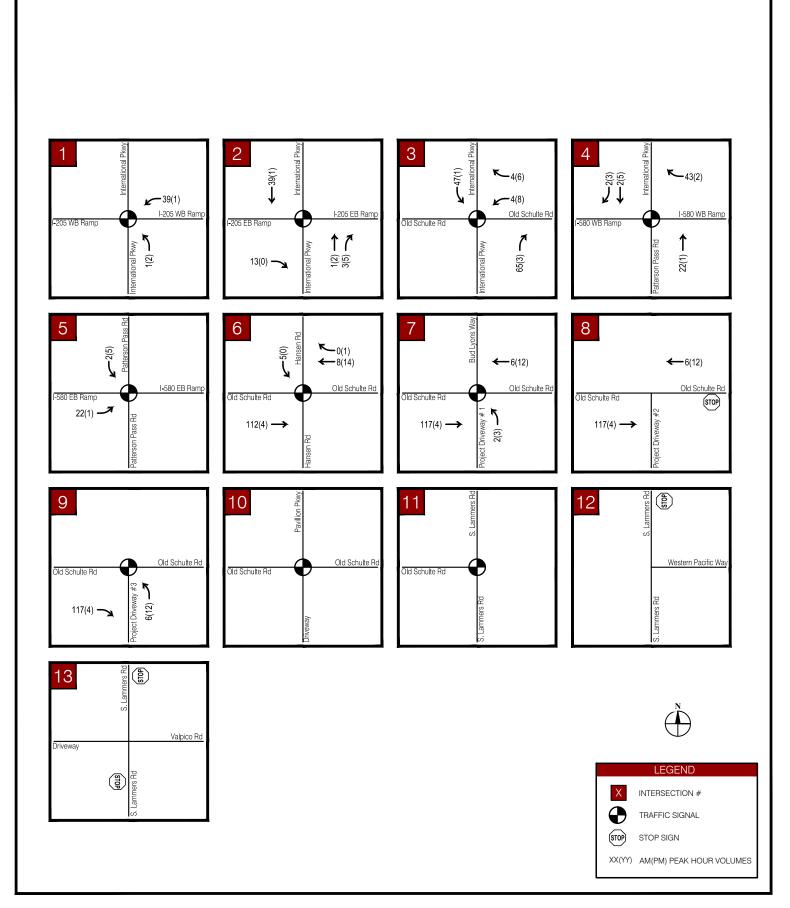




Figure 9
Truck Background Project Assignment
Background Plus Project Conditions

Figure 10
Passenger Car Project Trip Distribution
Cumulative Plus Project Conditions Costco Depot Traffic Analysis





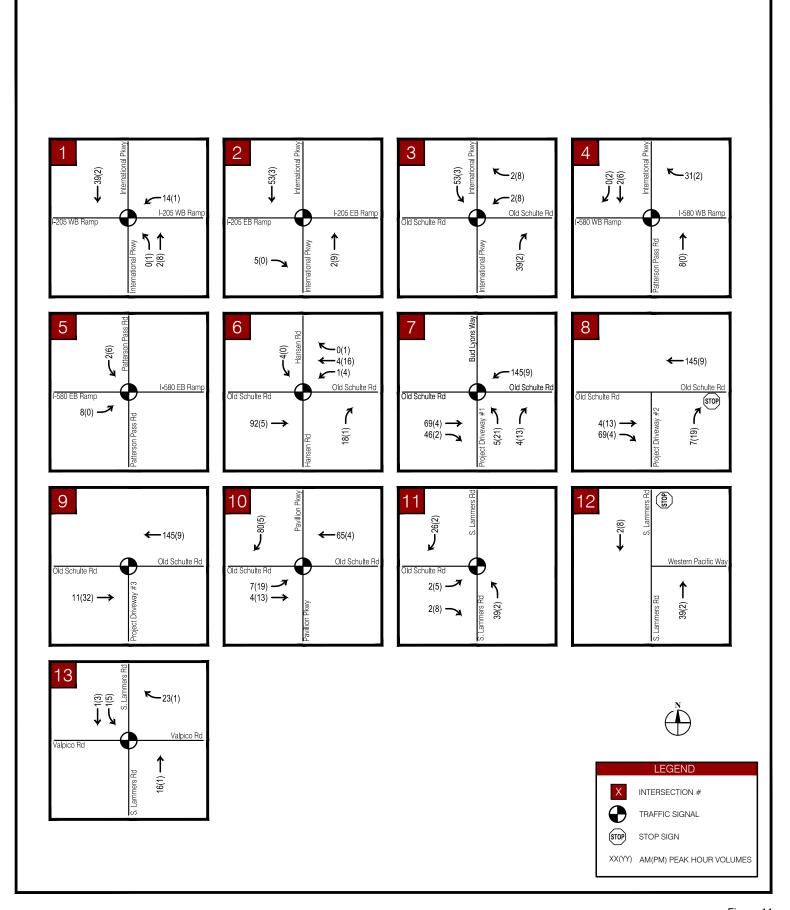




Figure 11

Figure 12
Truck Project Trip Distribution
Cumulative Plus Project Conditions Costco Depot Traffic Analysis







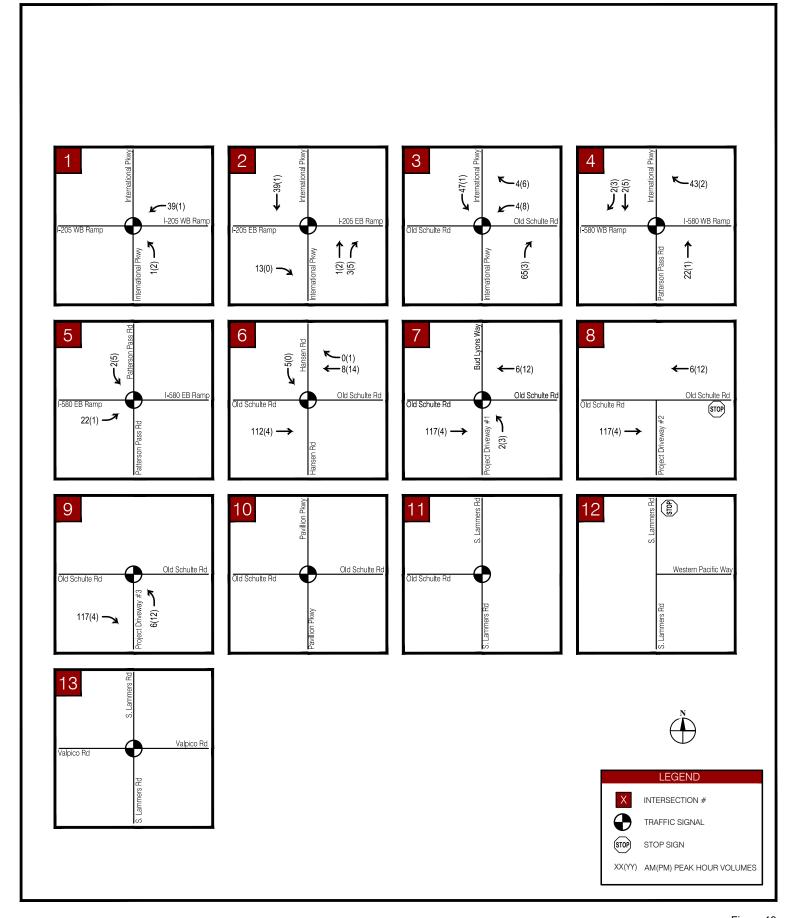




Figure 13

Truck Cumulative Project Assignment
Cumulative Plus Project Conditions



7. Background Plus Project Conditions

Background Plus Project Conditions are based on Background Conditions traffic volumes plus traffic generated by the proposed Project. The roadway network is based on Background Conditions plus improvements anticipated to be constructed by the Project:

- Widen Old Schulte Road to four through lanes along the Project's frontage
- Add south leg and eastbound right turn lane and westbound left turn lane at Project Driveway #1
- Add new signalized intersection, eastbound right turn lane and westbound left turn lane at Project Driveway #3

The Background Plus Project Conditions roadway network is shown in **Figure 14** and the volumes are shown in **Figure 15**.

Results of the Background Plus Project Conditions levels of service analysis are presented in **Table 9**. Travel patterns on Old Schulte Road are peak period based (i.e. westbound in the morning and eastbound in the evening). The Project primarily adds traffic in the opposing, non-peak, direction during the peak periods. The following intersections operated at unacceptable levels of service and recommended improvements have been provided:

- Intersection #1 International Pkwy & I-205 WB Ramps (AM Peak Hour)
 - Restripe westbound off-ramp to provide two left-turn lanes and one shared through/right lane and optimize signal timings per Cordes Ranch Specific Plan Final EIR TRANS-1 mitigation measure.
- Intersection #3 International Pkwy & Old Schulte Rd (AM and PM Peak Hours)
 - Per the Final Traffic Operations Analysis Report (FTOAR) For the Interstate 580/International Parkway/Patterson Pass Road Interchange in Tracy, CA, a diverging diamond interchange should be constructed at Intersections #4 & #5. The FTOAR recommended an additional northbound right turn at Intersection #3 and to restripe the existing eastbound outside shared through/right lane to be a dedicated eastbound right turn.
- Intersection #4 International Pkwy & I-580 WB Ramps (AM and PM Peak Hours)
 - A diverging diamond interchange is in the PSE design phase. The City of Tracy and Caltrans
 are going through design approvals to have the new interchange constructed in the near
 term.
- Intersection #5 International Pkwy & I-580 EB Ramps (AM and PM Peak Hours)
 - A diverging diamond interchange is in the PSE design phase. The City of Tracy and Caltrans
 are going through design approvals to have the new interchange constructed in the near
 term.
- Intersection #6 Hansen Rd & Old Schulte Rd (AM Peak Hour)
 - Add one additional westbound and eastbound through lane at the intersection to establish a 4-lane facility. Old Schulte Road will remain a 2-lane facility over the Delta-Mendota Canal Bridge.
- Intersection #11 Lammers Rd & Old Schulte Rd (AM Peak Hour)
 - Provide an overlap phase for the eastbound right turn.



- Intersection #12 Lammers Rd & Western Pacific Wy (AM Peak Hour)
 - Signalize and construct a northbound right-turn and southbound left-turn lanes plus the median of the future widening.
- Intersection #13 Lammers Rd & Valpico Rd (AM Peak Hour)
 - Signalize intersection and construct a southbound left-turn lane. It is anticipated that widening to a four-lane roadway will occur from Old Schulte Road to Valpico Road with subsequent intersection improvements.
- The project shall, at a minimum, provide emergency access to the future Hansen Road. It is anticipated that the properties west of the Project site may develop in the near future and that Hansen Road will be extended to Old Schulte Road.

All recommended improvements match those from the Cordes Ranch 2nd Consistency Analysis (June, 2020) except at Intersection #11. No improvements were required at Intersection #11 in the Cordes Ranch 2nd Consistency Analysis during Background Conditions; therefore, the improvements provided for Intersection #11 would be an interim solution until the cumulative intersection geometry is constructed.

It should be noted that for some intersections, the reported delay improved with the addition of the project trips. The reason for this occurrence is because the trips were predominately added to the through lane movements, which had a lower movement delay than the average intersection delay, and thereby decreases the overall average delay.

Analysis output sheets for Background Plus Project and Background Plus Project (Improvements) are provided in the **Appendix**.

Table 11 provides Costco project obligations for the Background Plus Project Conditions.

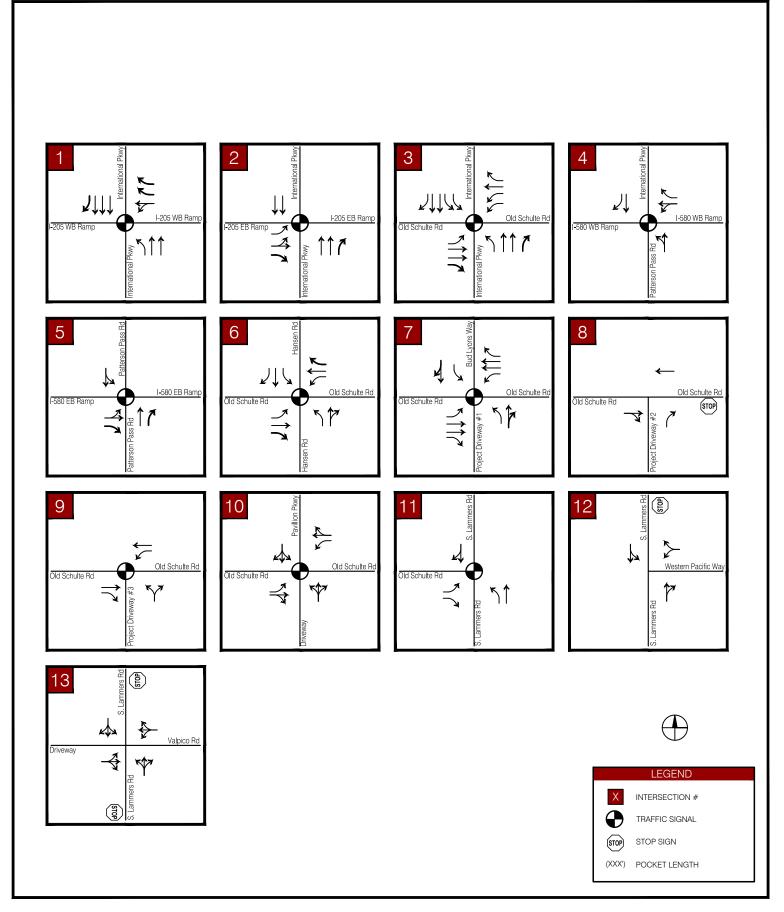




Figure 14

Background Plus Project

Lane Geometry and Traffic Control

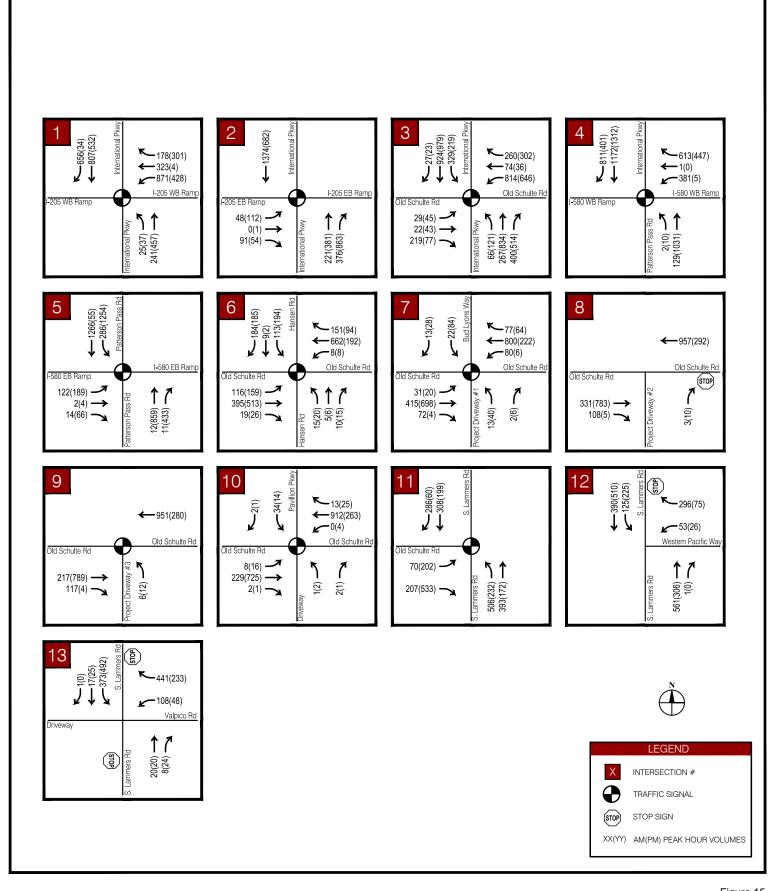




Figure 15
Background Plus Project
Peak Hour Volumes



<u>Table 9 – Background Plus Project Conditions LOS Summary</u>

			Background Conditions						Background Plus Project Conditions					Project		
#	Intersection	Agency	Control	A	AM Peak		F	PM Peak		P	M Peak			PM Peak		Impact?
				MVMT	Delay	LOS	MVMT	Delay	LOS	MVMT	Delay	LOS	MVMT	Delay	LOS	(Y/N)
1	International Pkwy & I-205 WB Ramps	Caltrans	Signal	-	229.2	F	-	13.4	В	-	268.9	F	ı	13.7	В	Y
2	International Pkwy & I-205 EB Ramps	Caltrans	Signal	-	6.1	Α	-	12.5	В	-	6.8	Α	-	13.5	В	-
3	International Pkwy & Old Schulte Rd	Tracy	Signal	-	146.9	F	-	150.9	F	-	171.5	F	-	166.6	F	Υ
4	International Pkwy & I-580 WB Ramps	Caltrans	Signal	-	- 369.7 F		-	427.4	F	-	369.6	F	-	437.1	F	Υ
5	International Pkwy & I-580 EB Ramps	Caltrans	Signal	- 160.8 F		-	424.1	F	-	162.6	F	-	433.4	F	Υ	
6	Hansen Road & Old Schulte Rd	Tracy	Signal	-	58.0	E	-	37.0	D	-	56.5	E	-	37.7	D	N
7	Bud Lyons Wy/Project Dwy #1 & Old Schulte Rd	Tracy	Signal	-	91.4	F	-	9.4	Α	-	27.2	С	-	25.2	С	N
8	Project Dwy #2 & Old Schulte Rd	Tracy	TWSC		Intor	costion F	oes Not Ex	ic+		-	-	-	-	-	-	N
•	Worst Approach	Tracy	TVVSC		inter	section L	oes not ex	ist		NB	9.7	Α	NB	11.3	В	IN
9	Project Dwy #3 & Old Schulte Rd	Tracy	Signal		Inter	section	Does Not Ex	iit		-	6.4	Α	-	3.5	Α	N
10	Pavillion Pkwy & Old Schulte Rd	Tracy	Signal	-	19.9	В	-	11.9	В	-	15.9	В	-	12.2	В	
11	Lammers Rd & Old Schulte Rd	Tracy	Signal	-	52.9	D	-	32.6	С	-	66.9	E	-	34.7	С	Υ
12	Western Pacific Wy & Old Schulte Rd	T	TMCC	-	-	-	-	-	-	-	-	-	-	-	-	v
12	Worst Approach	Tracy	TWSC	WB	114.6	F	WB	24.1	С	WB	162.5	F	WB	25.2	D	Y
12	Lammers Rd & Valpico Rd	T	TMCC	-	-	-	-	-	-	-	-	-	-	-	-	v
13	Worst Approach	Tracy	acy TWSC	WB	92.3	F	WB	26.8	D	WB	122.4	F	WB	29.0	D	Y

Note:

- 1 Analysis performed using HCM 6 methodologies
- 2 Delay indicated in seconds/vehicle
- 3 Caltrans level of service (LOS) standard is C/D. City of Tracy LOS standard is D except that LOS E acceptable within 1/4-mile of freeway interchanges (#3).
- 4 Intersections that fall below Caltrans or City standards are shaded and shown in **bold**.
- 5 AWSC = All-Way Stop Control, TWCS = Two-Way Stop Control, Signal = Signal Control
- 6 An impact is determined if the intersection delay increases by more than 5 seconds



Table 10 – Background Plus Project (Improvements) Conditions LOS Summary

					Backgrou	nd Plus F	roject Con	ditions		Improveme	Background Plus Project (Improvements) Conditions										
#	Intersection	Agency	Agency	Agency	Agency	Agency	Agency	Control	A	AM Peak		F	PM Peak		nt		AM Peak		PM Peak		
				MVMT	Delay	LOS	MVMT	Delay	LOS	Control	MVMT	Delay	LOS	MVMT	Delay	LOS					
1	International Pkwy & I-205 WB Ramps	Caltrans	Signal	-	268.9	F	-	13.7	В	Signal	-	9.8	Α	-	7.2	Α					
3	International Pkwy & Old Schulte Rd	Tracy	Signal	-	171.5	F	-	166.6	F												
4	International Pkwy & I-580 WB Ramps	Caltrans	Signal	-	369.6	F	-	437.1	F	-	Refer to FTOAR for improvements										
5	International Pkwy & I-580 EB Ramps	Caltrans	Signal	-	162.6	F	-	433.4	F												
6	Hansen Road & Old Schulte Rd	Tracy	Signal	ı	56.5	E	ı	37.7	D	Signal	-	25.7	С	-	27.7	С					
11	Lammers Rd & Old Schulte Rd	Tracy	Signal	-	66.9	E	-	34.7	С	Signal	-	48.2	D	-	21.5	С					
42	Western Pacific Way & W. Schulte Rd	T	TIMES	-	-	-	-	-	-	6:1		242			,						
12	Worst Approach	Tracy	TWSC	WB	162.5	F	WB	25.2	D	Signal	-	24.2	C	-	8.6	Α					
10	Lammers Rd & Valpico Rd	_	_						-	-	-	-	-	-	c : 1		22.6			16.0	
13	Worst Approach	Tracy	TWSC	WB	122.4	F	WB	29.0	D	Signal	-	32.6	C	-	16.8	В					

Notes:

- 1 Analysis performed using HCM 6 methodologies
- 2 Delay indicated in seconds/vehicle
- 3 Caltrans level of service (LOS) standard is C/D. City of Tracy LOS standard is D except that LOS E acceptable within 1/4-mile of freeway interchanges (#3).
- 4 Intersections that fall below Caltrans or City standards are shaded and shown in **bold**.
- 5 AWSC = All-Way Stop Control, TWCS = Two-Way Stop Control, Signal = Signal Control
- 6 An impact is determined if the intersection delay increases by more than 5 seconds



Table 11 - Costco Obligations (Background Plus Project Conditions)

Costco	Intersection	Peak	Background Plus Project C	Conditions						
Intersection #	/Location	Hour	Improvement	Recommended Costco Improvement?	Costco Project Obligation					
1	International Pkwy & I-205 WB Ramps	АМ	Restripe westbound off-ramp to provide two left-turn lanes and one shared through/right lane and optimize signal timings per Cordes Ranch Specific Plan Final EIR TRANS-1 mitigation measure.	Y	Costco will construct improvements if not already implemented by another development and may collect contributions from future benefitting developments. If improvement is already constructed, Costco shall pay a fair share contribution towards improvements.					
3	International Pkwy & Old Schulte Rd	AM & PM	Per the Final Traffic Operations Analysis Report (FTOAR) For the Interstate 580/International Parkway/Patterson Pass Road Interchange in Tracy, CA, a diverging diamond interchange should be constructed at Intersections #4 & #5. The FTOAR recommended an additional northbound right turn at Intersection #3 and to restripe the existing eastbound outside shared through/right lane to be a dedicated eastbound right turn.	Υ	Costco will construct improvements if not already implemented by another development and may collect contributions from future benefitting developments. If improvement is already constructed, Costco shall pay a fair share contribution towards improvements.					
4	International Pkwy & I-580 WB	AM & PM	A diverging diamond interchange is in the PSE design phase. The City of Tracy and Caltrans are going through design approvals to have the new interchange constructed in the near term.	Impact Fees	Pay TIF					
5	International Pkwy & I-580 EB	AM & PM	A diverging diamond interchange is in the PSE design phase. The City of Tracy and Caltrans are going through design approvals to have the new interchange constructed in the near term.	Impact Fees	Pay TIF					
61	Hansen Road & Old Schulte Rd	AM	Add one additional westbound and eastbound through lane at the intersection to establish a 4-lane facility. Old Schulte Road will remain a 2-lane facility over the Delta-Mendota Canal Bridge.	Υ	Costco to implement					
11	Lammers Rd & Old Schulte Rd	AM	Provide an overlap phase for the eastbound right turn.	Υ	Costco to implement					
121	Lammers Rd & Western Pacific Way	АМ	Signalize and construct a northbound right-turn and southbound left-turn lanes plus the median of the future widening.	Υ	Costco will construct improvements if not already implemented by another development and may collect contributions from future benefitting developments. If improvement is already constructed, Costco may pay a fair share contribution towards improvements.					
13	Lammers Rd & Valpico Rd	АМ	Signalize intersection and construct a southbound left-turn lane. It is anticipated that widening to a four-lane roadway will occur from Old Schulte Road to Valpico Road with subsequent intersection improvements.	Y	Costco will construct improvements if not already implemented by another development and may collect contributions from future benefitting developments. If improvement is already constructed, Costco may pay a fair share contribution towards improvements.					

Notes:

^{1.} Costco will construct improvement if not already implemented by another development. This improvement is anticipated to be included in the City of Tracy Transportation Master Plan (TMP) Fee Program Update. If included, Costco could receive reimbursement for improvements within the fee program.

^{2.} Kimley-Horn traffic study identified TIF, this is not reflected in the conditions.



8. Cumulative Conditions

Cumulative Conditions represent 2035 conditions, aligning with the City of Tracy Transportation Master Plan's Horizon Year. The Cumulative Conditions roadway network is shown in **Figure 16**. Cumulative traffic volumes were developed based on recently updated model plots from City of Tracy travel demand forecast model, reflecting the latest development assumptions for the Cordes Ranch and Westside Specific Plan areas, but with the Project volumes removed from the network. Cumulative 2035 link volumes were converted to turning movement volumes using a traffic modeling standard process commonly referred to as the Furness method. The Furness method uses an iterative process to derive future turning movement volumes based on future year roadway link volumes an initial estimate of turning percentage, obtained from existing intersection turning movement counts if available. Intersection lane geometry was based on the Transportation Master Plan and the latest I-205/International Pkwy and I-580/International Pkwy interchange conceptual plans. The Cumulative Conditions lane geometry is shown in **Figure 17** and the volumes are shown in **Figure 18**.

Results of the Cumulative Conditions level of service analysis are presented in **Table 12.** The following intersections operated at unacceptable levels of service:

- Intersection #6 Hansen Rd & Old Schulte Rd (PM Peak Hour)
- Intersection #10 Pavilion Pkwy & Old Schulte Rd (PM Peak Hour)
- Intersection #13 Lammers Rd & Valpico Rd (PM Peak Hour)

Analysis output sheets for Cumulative Conditions are provided in the **Appendix**.

It should be noted that Intersections #3, #4 and #5 were not analyzed for Cumulative Conditions due to extensive analysis conducted and summarized in the FTOAR.

Figure 16

Cumulative Conditions Overview Map

Costco Depot Traffic Analysis





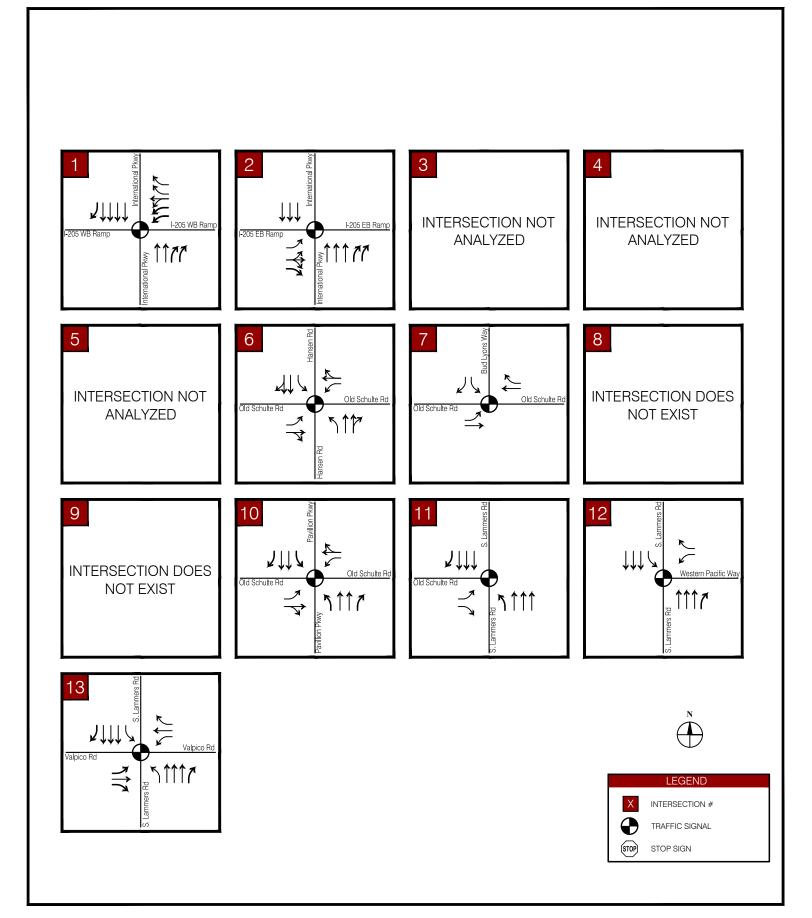




Figure 17

Cumulative Conditions

Lane Geometry and Traffic Control

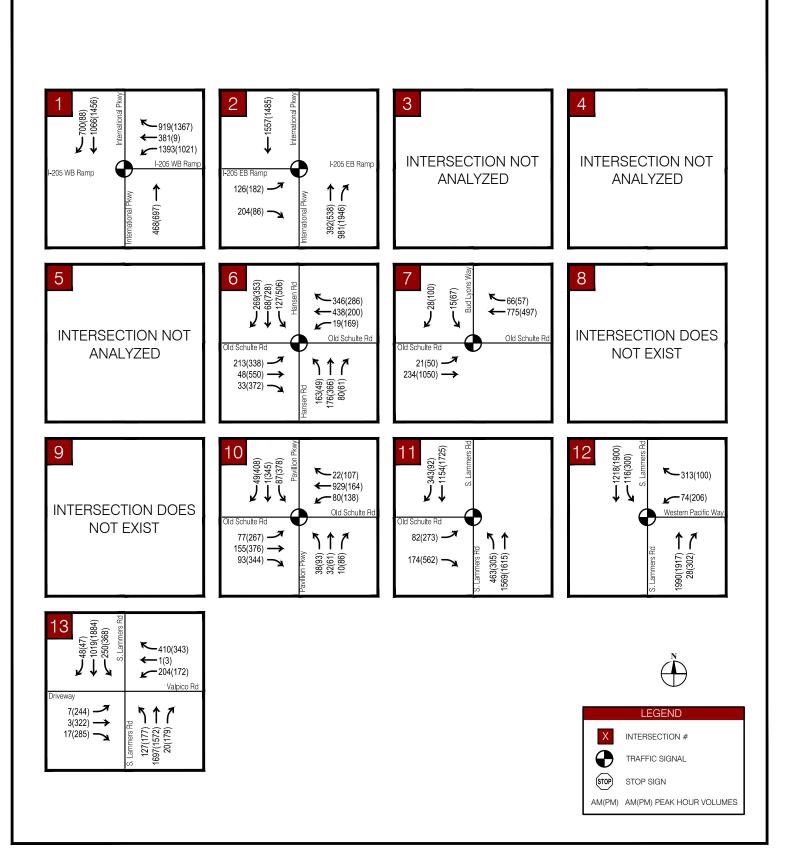






Table 12 - Cumulative Conditions LOS Summary

			-	Cumulative Conditions								
#	Intersection	Agency	Control		AM Peak		PM Peak					
				MVMT	Delay	LOS	MVMT	Delay	LOS			
1	International Pkwy & I-205 WB Ramps	Caltrans	Signal	-	13.1	В	-	9.6	Α			
2	International Pkwy & I-205 EB Ramps	Caltrans	Signal	-	7.1	Α	-	21.6	С			
3	International Pkwy & Old Schulte Rd											
4	International Pkwy & I-580 WB Ramps			Refer	to FTOAR a	nalysis						
5	International Pkwy & I-580 EB Ramps]										
6	Hansen Road & Old Schulte Rd	Tracy	Signal	-	46.1	D	-	67.0	E			
7	Bud Lyons Way/Project Dwy #1 & Old Schulte Rd	Tracy	Signal	-	22.2	С	-	52.0	D			
8	Project Dwy #2 & Old Schulte Rd	Troot			Intoro	ootion D	and Not Evi	ic+				
8	Worst Approach	Tracy	-	Intersection Does Not Exist								
9	Project Dwy #3 & Old Schulte Rd	Tracy	-		Inters	ection D	oes Not Ex	ist				
10	Pavillion Pkwy & Old Schulte Rd	Tracy	Signal	-	36.3	D	-	65.7	E			
11	Lammers Rd & Old Schulte Rd	Tracy	Signal	-	15.1	В	-	37.9	D			
12	Lammers Rd & Western Pacific Way	Tracy	Signal	-	16.4	В	-	14.4	В			
13	Lammers Rd & Valpico Rd	Tracy	Signal	-	41.1	D	-	64.1	E			

Note:

- 1 Analysis performed using HCM 6 methodologies
- 2 Delay indicated in seconds/vehicle
- 3 Caltrans level of service (LOS) standard is C/D. City of Tracy LOS standard is D except that LOS E acceptable within 1/4-mile of freeway interchanges (#3).
- 4 Intersections that fall below Caltrans or City standards are shaded and shown in **bold**.
- 5 AWSC = All-Way Stop Control, TWCS = Two-Way Stop Control, Signal = Signal Control



9. Cumulative Plus Project Conditions

Cumulative Plus Project Conditions are based on Cumulative Conditions traffic volumes plus traffic generated by the proposed Project.

Cumulative Plus Project geometries are shown in Figure 14 and volumes are shown in Figure 15.

Results of the Cumulative Plus Project Conditions levels of service analysis are presented in **Table 13**. All intersections operated at acceptable levels of service except for the following intersections:

- Intersection #6 Hansen Rd & Old Schulte Rd (PM Peak Hour)
- Intersection #10 Pavilion Pkwy & Old Schulte Rd (PM Peak Hour)
- Intersection #13 Lammers Rd & Valpico Rd (PM Peak Hour)

The Cumulative Conditions analysis does not indicate that the Project deteriorates the LOS or causes delay to increase by more than 5 seconds per the City threshold at any study intersection, and thus, no project improvements are required over and above those identified in Background conditions. The project shall, however, pay the City Traffic Impact Fees to offset cumulative incremental deterioration of operating conditions on the City road network.

Analysis output sheets are provided in the **Appendix**.

It should be noted that Intersections #3, #4 and #5 were not analyzed for Cumulative Conditions due to extensive analysis conducted and summarized in the FTOAR.

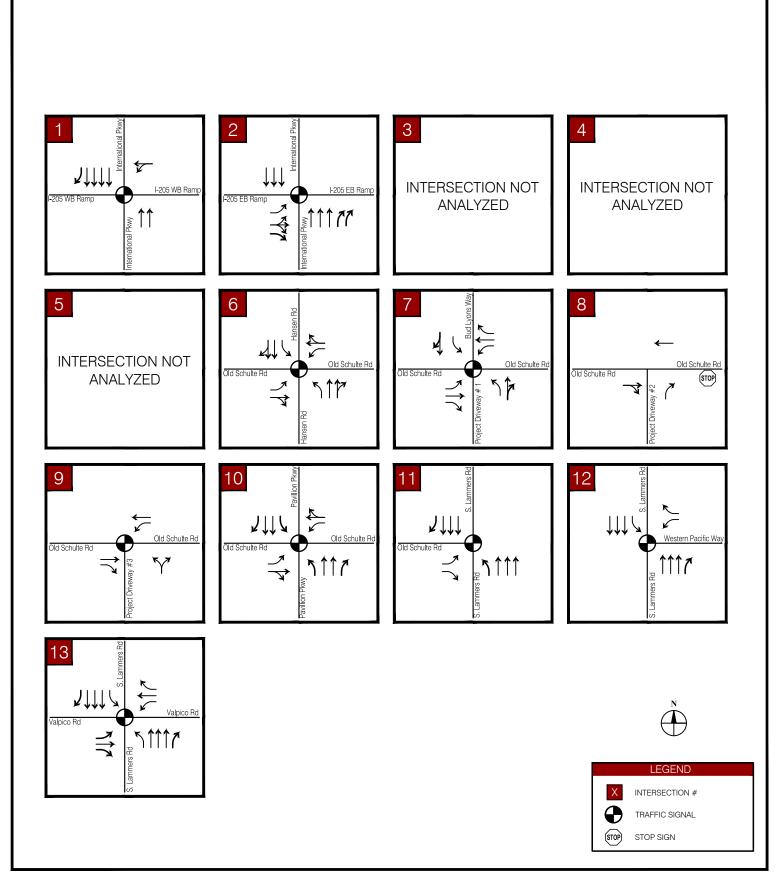




Figure 19
Cumulative Plus Project Conditions
Lane Geometry and Traffic Control

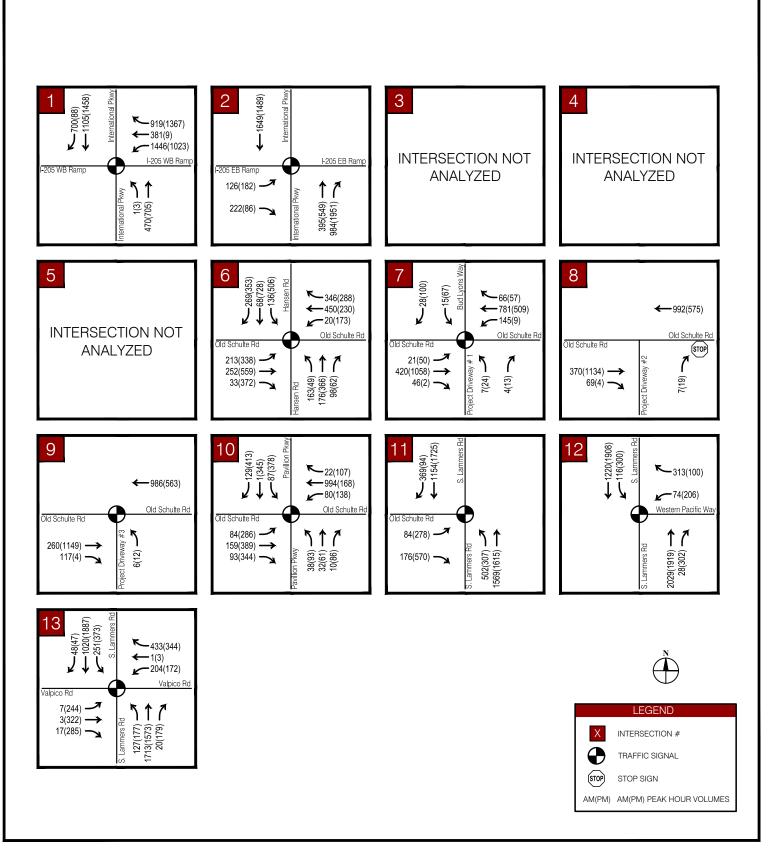






Table 13 - Cumulative Plus Project Conditions LOS Summary

					Cu	mulative	Conditions			Cumulative Plus Project Conditions						
#	Intersection	Agency	Control	A	AM Peak		ı	PM Peak		A	AM Peak			PM Peak		Project Impact?
				MVMT	Delay	LOS	MVMT	Delay	LOS	MVMT	Delay	LOS	MVMT	Delay	LOS	impact:
1	International Pkwy & I-205 WB Ramps	Caltrans	Signal	-	13.1	В	-	9.6	Α	-	13.9	В	-	9.6	Α	-
2	International Pkwy & I-205 EB Ramps	Caltrans	Signal	-	7.1	Α	-	21.6	С	-	7.4	Α	-	21.9	С	-
3	International Pkwy & Old Schulte Rd															
4	International Pkwy & I-580 WB Ramps		Refer to FTOAR analysis													
5	International Pkwy & I-580 EB Ramps															
6	Hansen Rd & Old Schulte Rd	Tracy	Signal	-	46.1	D	-	67.0	E	-	46.3	D	-	67.9	E	N
7	Bud Lyons Wy/Project Dwy #1 & Old Schulte Rd	Tracy	Signal	-	22.2	С	-	52.0	D	-	32.2	С	-	17.1	В	-
8	Project Dwy #2 & Old Schulte Rd	Tracy	_		Intor	caction [Does Not Ex	ict		-	ı	-	-	-	-	
٥	Worst Approach	ITACY	-		inter	section L	oes not ex	ist		NB	9.8	Α	NB	13.8	В	-
9	Project Dwy #3 & Old Schulte Rd	Tracy	-	Intersection Does Not Exist							4.7	Α	-	3.2	Α	-
10	Pavillion Pkwy & Old Schulte Rd	Tracy	Signal	-	36.3	D	-	65.7	E	-	44.6	D	-	67.7	E	N
11	Lammers Rd & Old Schulte Rd	Tracy	Signal	-	15.1	В	-	37.9	D	-	16.9	В	-	38.6	D	-
12	Lammers Rd & Western Pacific Wy	Tracy	Signal	-	16.4	В	-	14.4	В	-	16.7	В	-	14.4	В	-
13	Lammers Rd & Valpico Rd	Tracy	Signal	-	41.1	D	-	64.1	E	-	46.0	D	-	64.6	E	N

Note:

- 1 Analysis performed using HCM 6 methodologies
- 2 Delay indicated in seconds/vehicle
- 3 Caltrans level of service (LOS) standard is C/D. City of Tracy LOS standard is D except that LOS E acceptable within 1/4-mile of freeway interchanges (#3).
- 4 Intersections that fall below Caltrans or City standards are shaded and shown in **bold**.
- 5 AWSC = All-Way Stop Control, TWCS = Two-Way Stop Control, Signal = Signal Control
- 6 An impact is determined if the intersection delay increases by more than 5 seconds



10. Driveway Access Review

The Project proposes three driveways along Old Schulte Road. **Table 14** provides a summary of the recommendations for each driveway.

Table 14 - Driveway Access Review

#	Width	Proposed Control	Proposed Access	Proposed Vehicle Type	Recommendations/Comments
1	50′	Signal	Full	Cars & Trucks Out	Revise striping to the following: 1 left turn and 1 through/right turn lane.
2	26′	SSSC	RIRO	Cars	• Provide Stop (R1-1), Right Turn Only (R3-5R), and One Way (R6-1) signage.
3	54'	Signal	Full	Trucks In & Out	A left turn lane and a right turn pocket are needed for the signal.
		Additio	nal Notes		Emergency vehicle access(es) may be required off Hansen Road.

Notes:

- 1. SSSC = Side Street Stop Control
- 2. RIRO = Right In / Right Out Access; Full = Full Access

Figure 21 illustrates the driveway spacing, widths, and recommendations. **Figure 22** shows the signal spacings along Old Schulte Road between existing and proposed signals. The proposed Project signals provide sufficient spacings.

See the Vehicle Turning Templates section for a review of passenger cars and trucks at the Project driveways and the External Network Review section for a review of the Project frontage and turn lanes required at Project driveways and intersections.

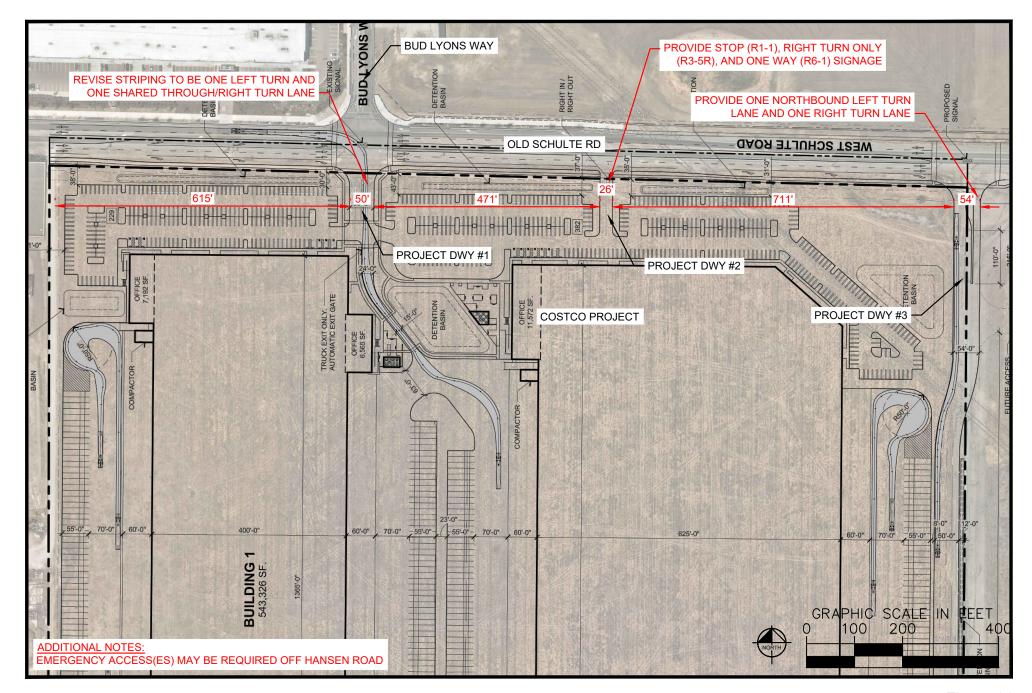




Figure 21

Driveway Access Review

Costco Site Plan Review

Tracy Costco Direct Delivery Center

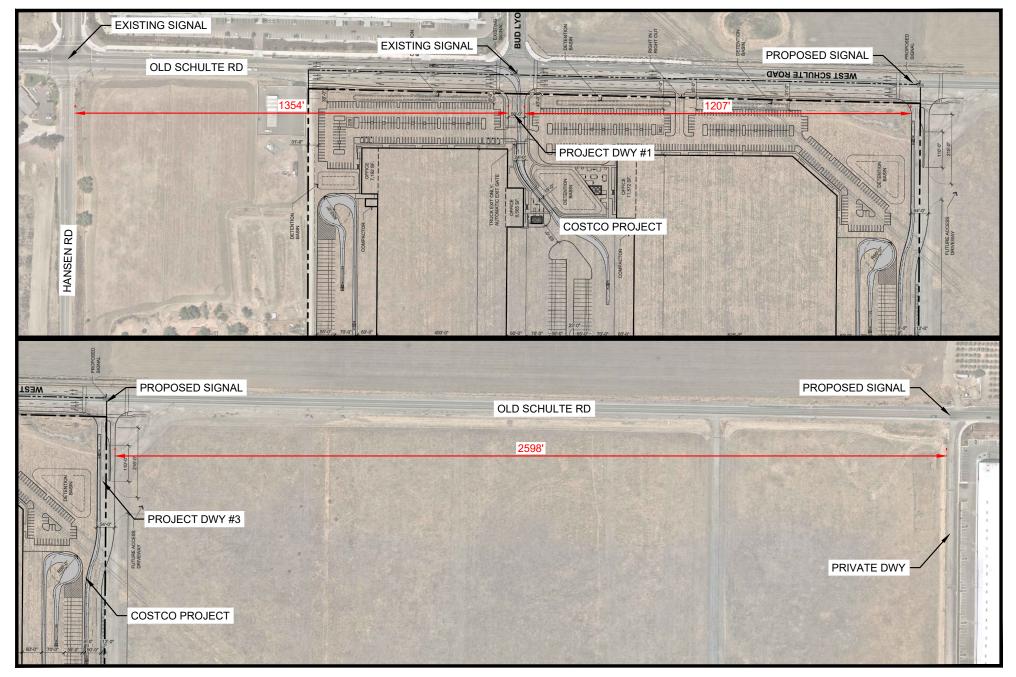






Figure 22 Signal Spacing Review Costco Site Plan Review



11. Internal Circulation Review

Truck Gate Queuing Review

An internal truck gate queuing analysis was performed to determine if the proposed truck entrance at Project Driveway #3 can adequately accommodate queuing on-site without spilling onto Old Schulte Road. The Project site proposes three entrance lanes and one exit lane. All trucks entering the site will enter at Project Driveway #3.

Two queueing analysis scenarios were analyzed:

- 1. All three lanes stopping at the security buildings
- 2. Two lanes stopping at the security buildings and one lane bypassing the security buildings.
 - a. The expectation is that Costco Direct Delivery Center will have means of identifying certain trucks that will allow those trucks to avoid stopping at the security buildings when entering.

Operations at the existing Costco distribution warehouse located on Old Schulte Road west of the Project site were observed in November 2020 from 10:35 AM to 11:30 AM. The existing site has one bypass lane and two service lanes. From this observation, it was recorded that each truck was processed at a rate of 170 seconds per truck (approximately 3 minutes per truck). It was also recorded that approximately 50% of entering trucks use the bypass lane.

The following assumptions were used to calculate the truck entrance queuing:

- Uniform arrival rate
- 3-minute service time per truck that stops at a security building
- 2,300 feet per lane of available storage
- To determine an initial queue and off-peak hour queuing, ITE's Time of Day Distribution was utilized to estimate what percentage of the peak hour trips would occur during the off peaks. Trucks entering the site would be distributed as follows during the three peak hours of queue analysis:
 - o 30% of the peak hour trips would arrive in the hour just before the peak hour
 - o 70% of the peak hour trips would arrive in the hour just after the peak hour
 - o 50% of the peak hour trips would arrive in the following hour
- 50% of truck trips will utilize the bypass lane (Scenario 2 only)

See the **Appendix** for queuing calculations. The expected queue per scenario is the following:

- Scenario 1 (no bypass lane) 2,100 ft
- Scenario 2 (with bypass lane) 750 ft

The analysis indicates that the vehicle storage for full gate control, Scenario 1, is marginally sufficient. If one bypass lane is provided, the storage is adequate.



Site Plan Comments

A review of the internal circulation has been provided in **Figure 23**. The following summarizes the comments:

- Approximately 100 feet is provided between Old Schulte Road and the internal drive aisle. This is only enough space for 4 passenger car vehicles or 1 STAA and 1 passenger car vehicle per lane. Since this is the only location where a passenger car can perform a left turn out of the site, this is not adequate during the shift change peaks. To alleviate congestion at this point, it is recommended to provide an eastbound U-turn lane (that could potentially convert to a future left turn lane) at the Old Schulte Road and Project Driveway #3 signalized intersection.
- At Project Driveway #1, the northern internal crosswalk should be removed as this will conflict with vehicles entering and exiting the Project. This crossing should occur at the signal instead or at the southern internal crosswalk.
- Provide a three way stop at the Project Driveway #1 internal intersection with the inbound movement as the free movement.
- No project detail is known for the eastern adjacent parcel that will share Project Driveway #3. The
 cross access shown will be reviewed in the future, once a development application is submitted
 for the adjacent parcel.
- Provide clear signage and/or pavement markings for trucks entering Project Driveway #3 that designates security versus bypass lanes.
- Provide truck turning templates at reverse curve within Project Driveway #3.

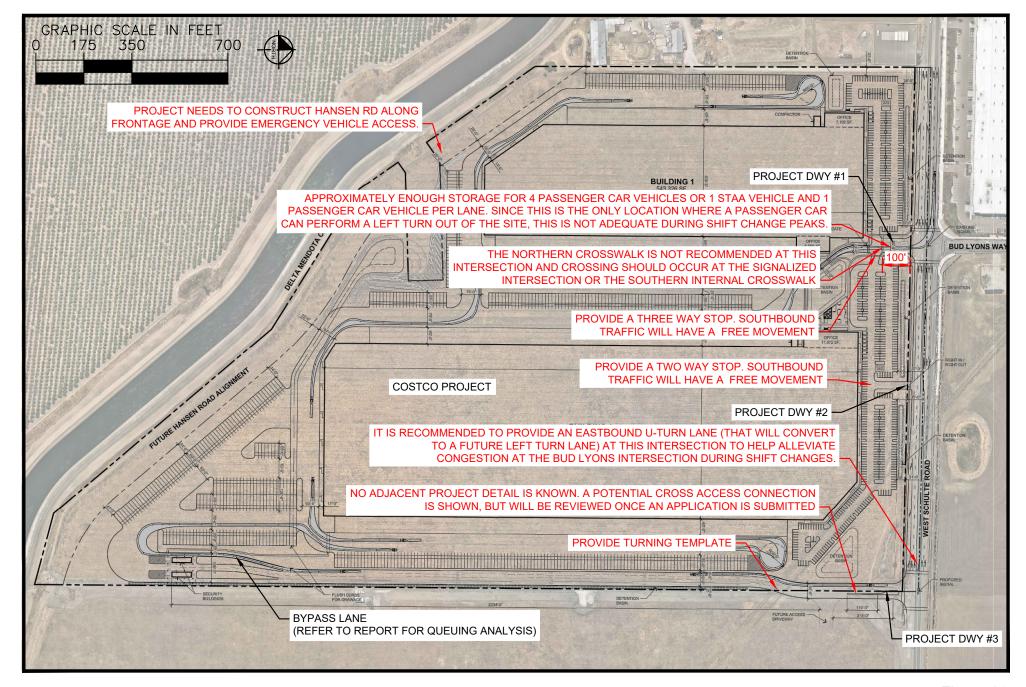




Figure 23
Internal Circulation Review
Costco Site Plan Review



12. Vehicle Turning Templates

The following design vehicles were analyzed at each Project driveway:

- 1. Passenger Car
- 2. STAA Truck

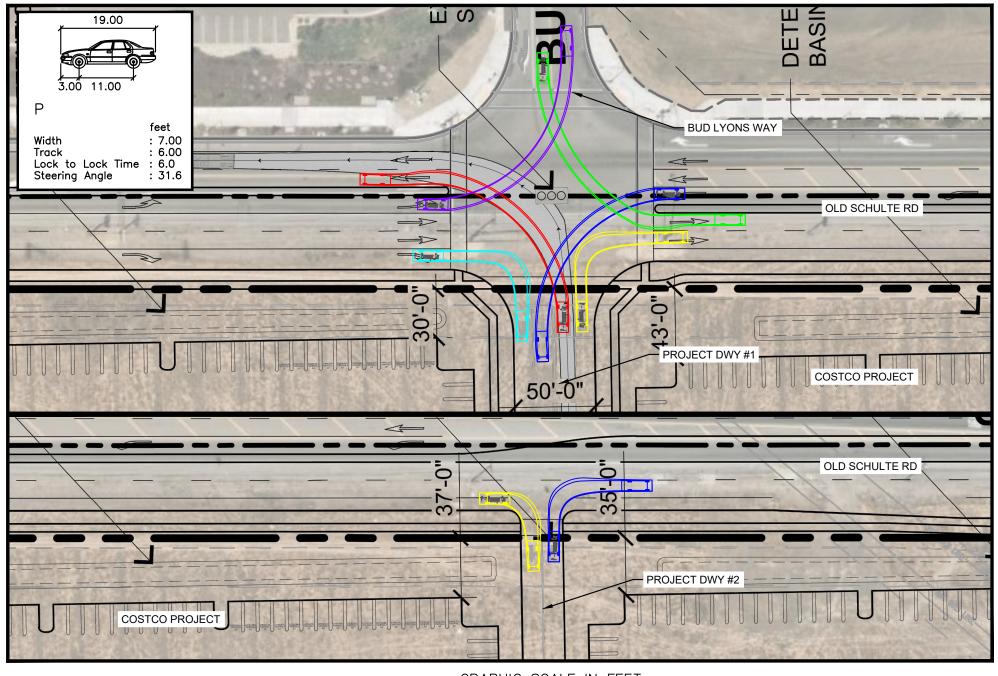
It is anticipated that passenger cars will only access the site from Driveways #1 and #2. It is anticipated that STAA trucks will only exit the site at Driveway #1 but can fully access the site at Driveway #3.

Figure 24 illustrates the passenger car turning templates and **Figure 25** illustrates the STAA truck turning templates.

It was determined that a passenger car can access the site with no turning conflicts.

The following comments have been provided for the STAA turning templates:

- STAA trucks are unable to perform northbound right turn at Driveway #1. Design modifications
 to the proposed curb are required to allow STAA trucks to perform necessary movements to
 access the site.
- STAA trucks are unable to perform eastbound and northbound right turns at Driveway #3.
 Design modifications to the proposed curb are required to allow STAA trucks to perform necessary movements to access the site.
- A westbound left turn must be provided at Driveway #3 and it must accommodate a STAA truck turning template.





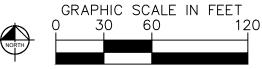
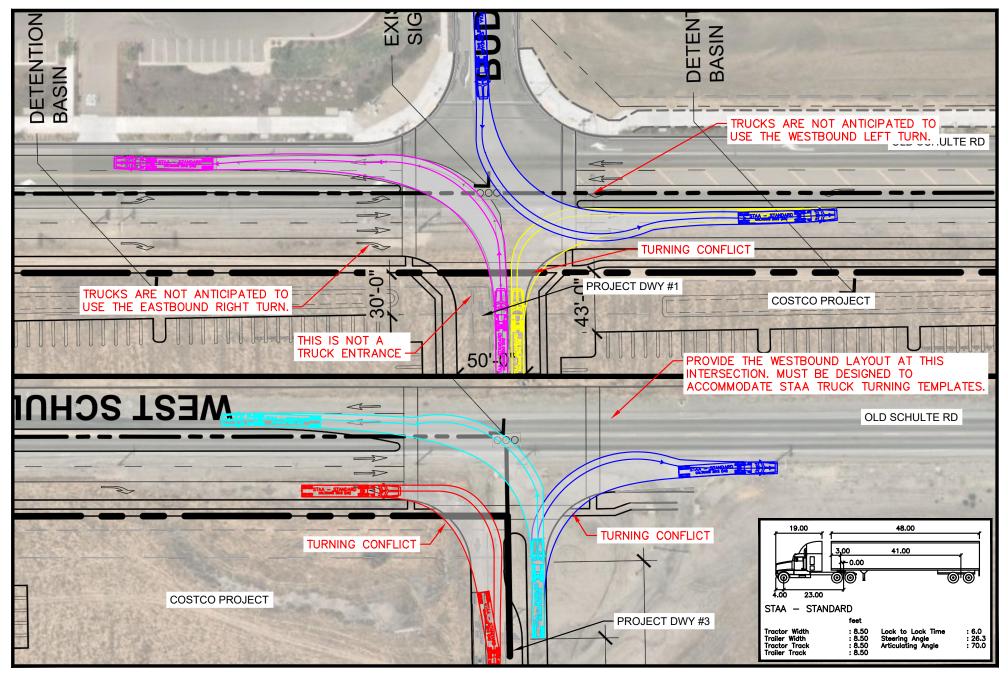
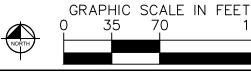


Figure 24
Passenger Car Turning Templates
Costco Site Plan Review







140

Figure 25
STAA Truck Turning Template
Costco Site Plan Review



13. External Network Review

The Project frontage was reviewed per the City of Tracy TMP 4-Lane Parkway cross section provided in **Figure 26**.

Figure 26 - 4-Lane Parkway TMP Cross Section

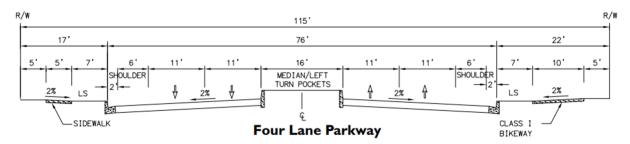


Figure 27 illustrates the external network comments. The following summarizes the comments:

- Provide more detail on the transitions between existing conditions on both the east and west end of the Project limits.
- Provide the striping at the intersection of Old Schulte Road and Project Driveway #3. This approach must include a westbound left turn pocket that can accommodate a CA-STAA truck.
- Revise the signing and striping for the southbound movement at Old Schulte Road and Bud Lyons Way. Provide one left turn and one through/right lane.
- The Westbound right turn lane at the intersection of Old Schulte Road and Bud Lyons is existing and should be shown on the plan set.
- Provide eastbound shoulder stripe.
- Lengthen the westbound left turn lane at Project Driveway #1 to accommodate 375 feet of deceleration and 150 feet of storage.
- Emergency vehicle access(es) may be required off Hansen Road. In addition, the City typically requires all street frontage improvements to be constructed but the Project developer.

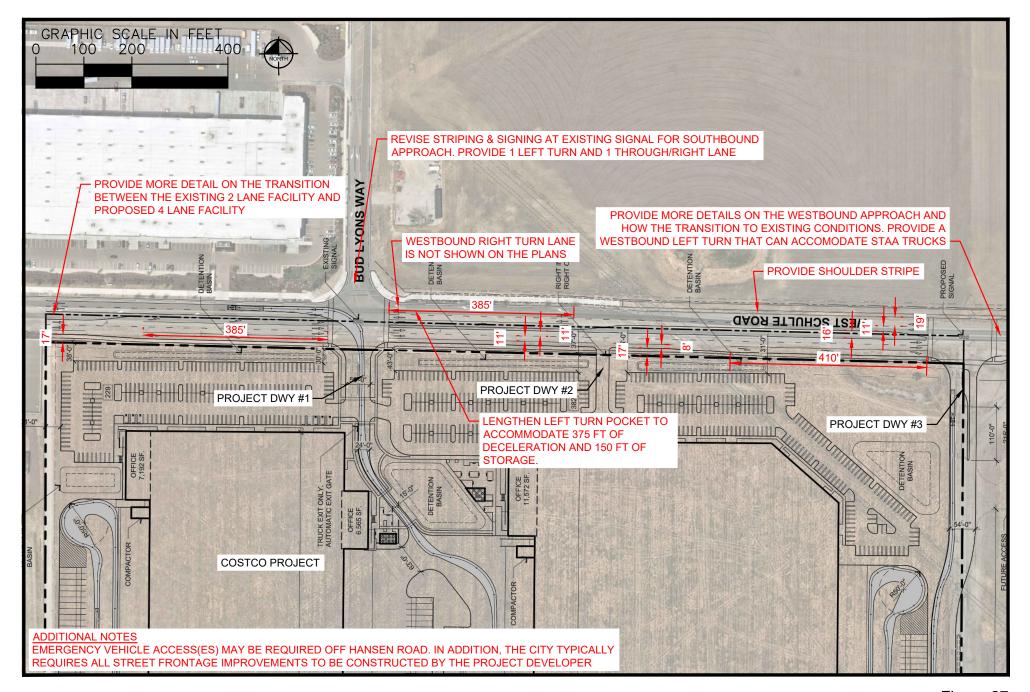




Figure 27
External Network Review
Costco Site Plan Review



14. Merge Analysis on Westbound Old Schulte Road East of the Delta-Mendota Canal Bridge

A review of the Old Schulte Road roadway widening at the Delta-Mendota Canal Bridge was conducted to determine if queues from the merge would spill back into the Hansen Road and Old Schulte Road intersection.

Currently, the Delta-Mendota Canal Bridge is a two-lane facility and is located on Old Schulte Road just east of the Costco Development. The purpose of this study is to determine if the Delta-Mendota Canal Bridge widening is required by Phase 1 or the full Costco development.

Queuing Analysis

Queuing analysis was completed using SimTraffic 11 and the average of 5 seedings were utilized, consistent with industry practice. The following conditions were analyzed:

- Background Conditions without bridge widening
- Background Plus Phase 1 Conditions (without bridge widening)
- Background Plus Costco Buildout Conditions (without bridge widening)

For this analysis only the AM peak hour were analyzed because it was determined that the deficiency occurred in the westbound direction during the AM peak hour in the previous study.

For information on volumes utilized for this analysis refer to the Costco Direct Delivery Center Traffic Analysis (June 2022).

The following improvement has been assumed:

- Widening of Old Schulte Road
 - Widen Old Schulte Road to a four-lane facility from 295 feet west of Hansen Road to the eastern boundary of the Costco Project.

The distance from the Delta-Mendota Canal Bridge to the Hansen Road and Old Schulte Road intersection is approximately 900 feet. According to the Caltrans Highway Design Manual (HDM), the necessary lane merge distance for a 45 MPH road (design speed of 55 MPH) with 11-foot wide lanes is equivalent to 605 feet (55 MPH * 11 feet) of merge distance required. Therefore, the lane merge must occur approximately 295 feet west of the intersection of Hansen Road and Old Schulte Road.

Figure 28 provides an illustration of the HDM requirements.

Table 15 provides the 95th percentile queueing analysis for the Project. **Table 16** provides the maximum queueing analysis for the Project.

From the analysis it was determined that the 95th percentile queues for Phase 1 and the full Costco development would not extend into the interseption. The maximum queues were provided for informational purposes and it was determined that the maximum queues could extend into the intersection; however, standard practice is to utilize the 95th percentile queue for analysis. Small flucations in traffic (increase) would result in the westbound 95th percentile queues extending into the Hansen Road and Old Schulte Road intersection.



Therefore, this analysis shows that the Costco development is not triggering the widening of the Delta-Mendota Canal Bridge for Background Plus Project Conditions. It was concluded from the queuing analysis, that the widening of the Delta-Mendota Canal Bridge is imminent.

Table 15 – 95th Percentile Queueing Analysis

Scenario	Available Queue		stbound 95 th tile Queue	95 th Percentile Queue Acceptable?		
	Capacity	Lane 1	Lane 2	(Y/N)		
Background Conditions		148 ft	69 ft	Υ		
Background Plus Phase 1 Conditions		174 ft	71 ft	v		
(without bridge widening)	295 ft	1/4/1	7110	Ĭ		
Background Plus Costco Development Conditions (without bridge widening)		165 ft	100 ft	Υ		

Notes

Table 16 - Maximum Queueing Analysis

Scenario	Available Queue		stbound m Queue	Maximum Queue Acceptable?
	Capacity	Lane 1	Lane 2	(Y/N)
Background Conditions		232 ft	122 ft	Υ
Background Plus Phase 1 Conditions (without bridge widening)	295 ft	304 ft	143 ft	N
Background Plus Costco Development Conditions (without bridge widening)	23310	309 ft	270 ft	N

Notes

^{1.} Simtraffic Simulations results are averaged from 5 simulations

^{1.} Simtraffic Simulations results are averaged from 5 simulations

Tracy Costco Direct Delivery Center



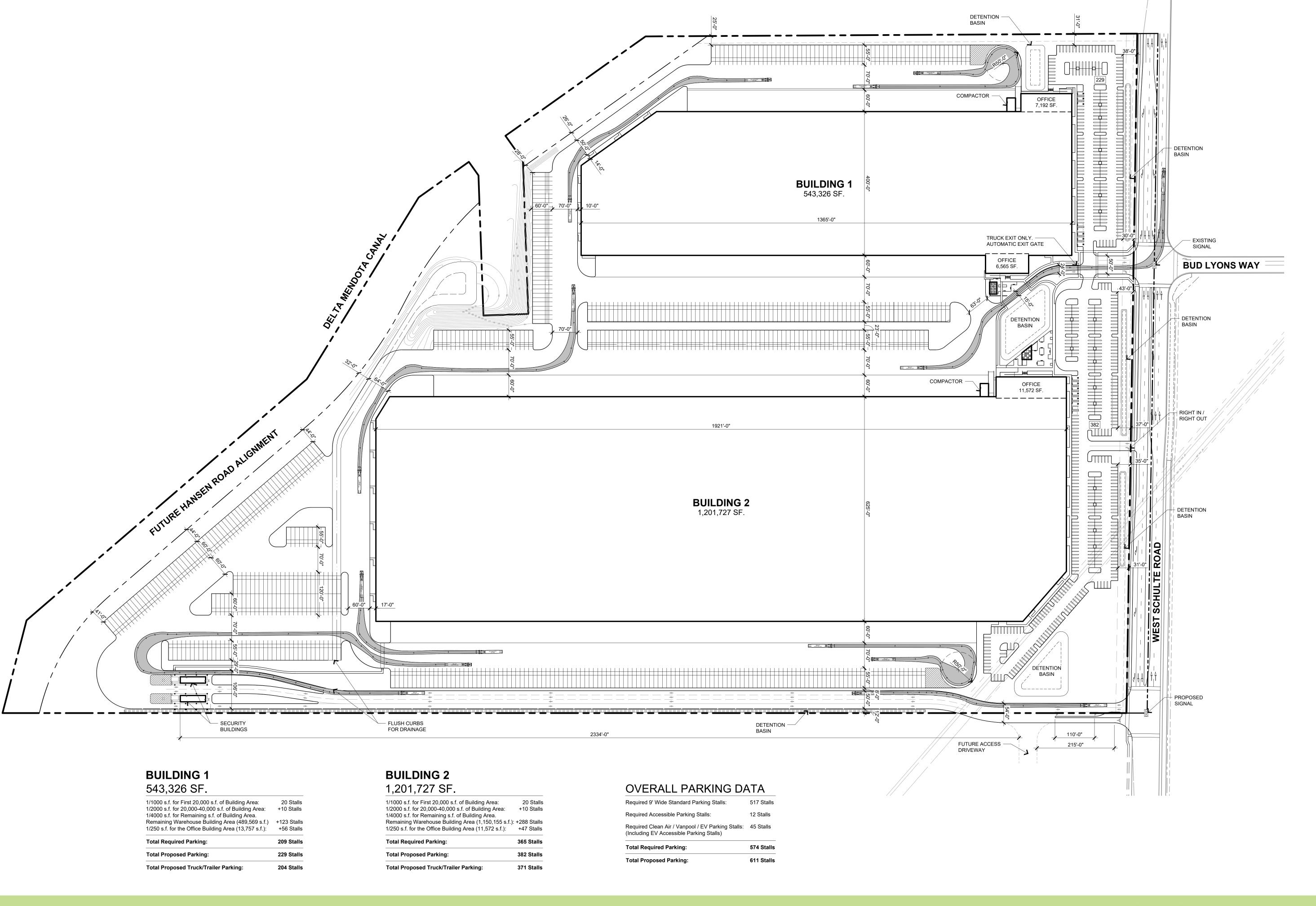


15. Appendix

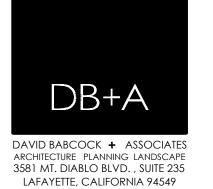
- A. Project Site Plan
- **B. Traffic Counts**
- C. Background Conditions Synchro Outputs
- D. Background Plus Project Conditions Synchro Outputs
- E. Background Plus Project Conditions (Mitigated) Synchro Outputs
- F. Cumulative Conditions Synchro Outputs
- G. Cumulative Plus Project Conditions Synchro Outputs
- H. Cumulative Plus Project (Mitigated) Conditions Synchro Outputs
- I. Truck Queuing Analysis
- J. Old Schulte Road Merge Simtraffic Analysis



A. Project Site Plan



DBA # P.281

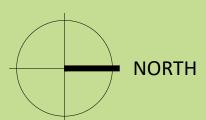


T: 925.283.5070

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COSTCO FACILITIES

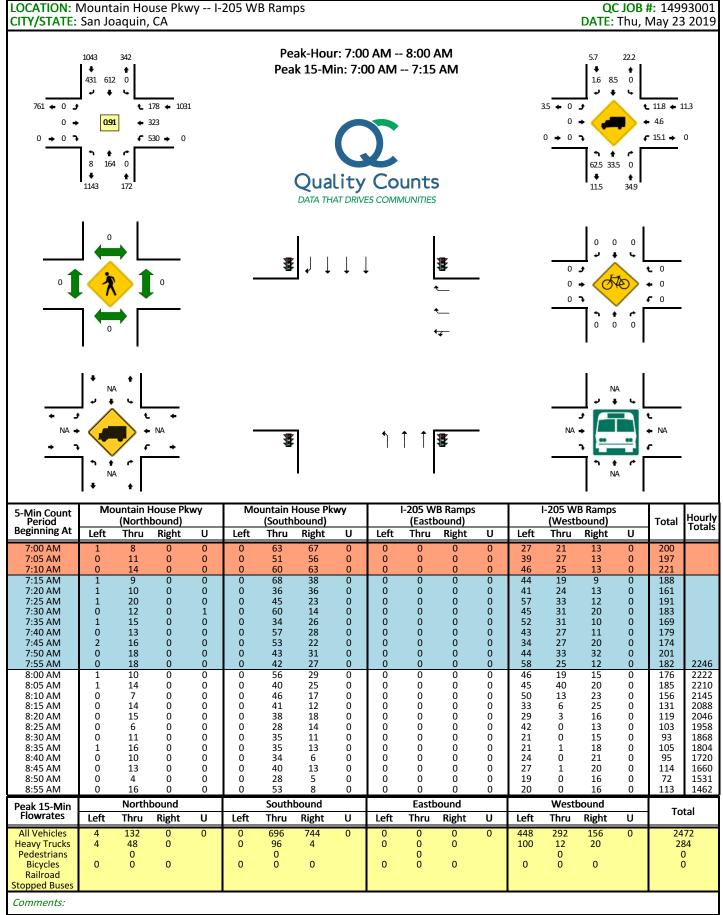
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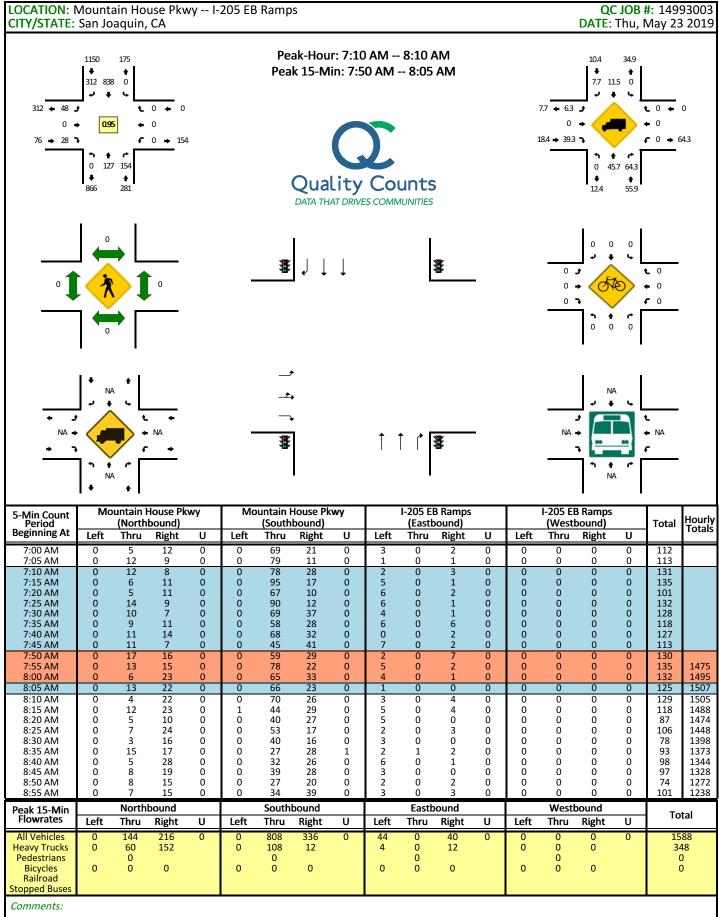


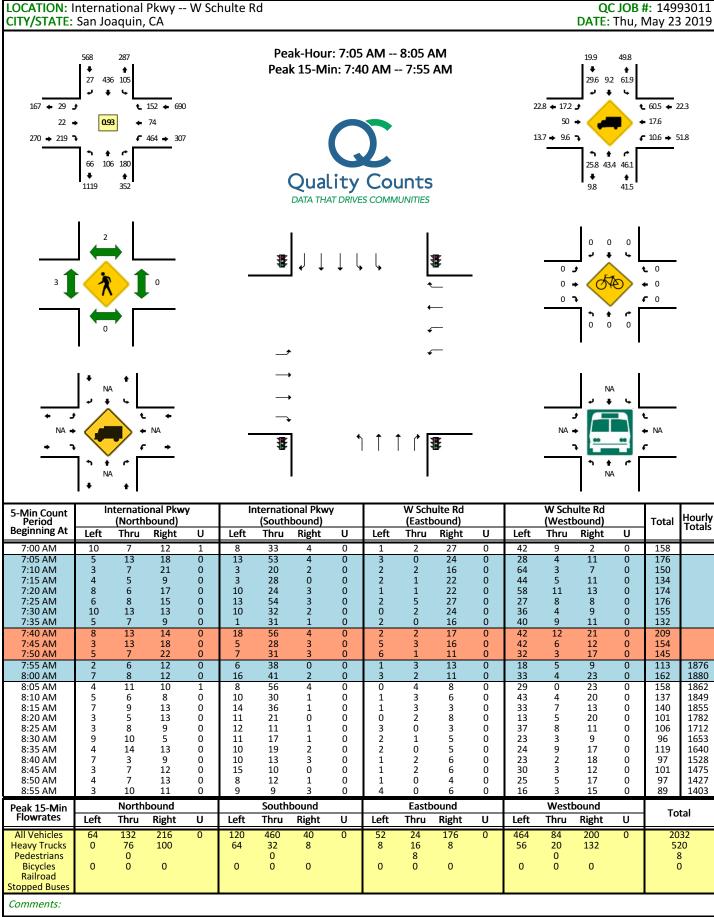
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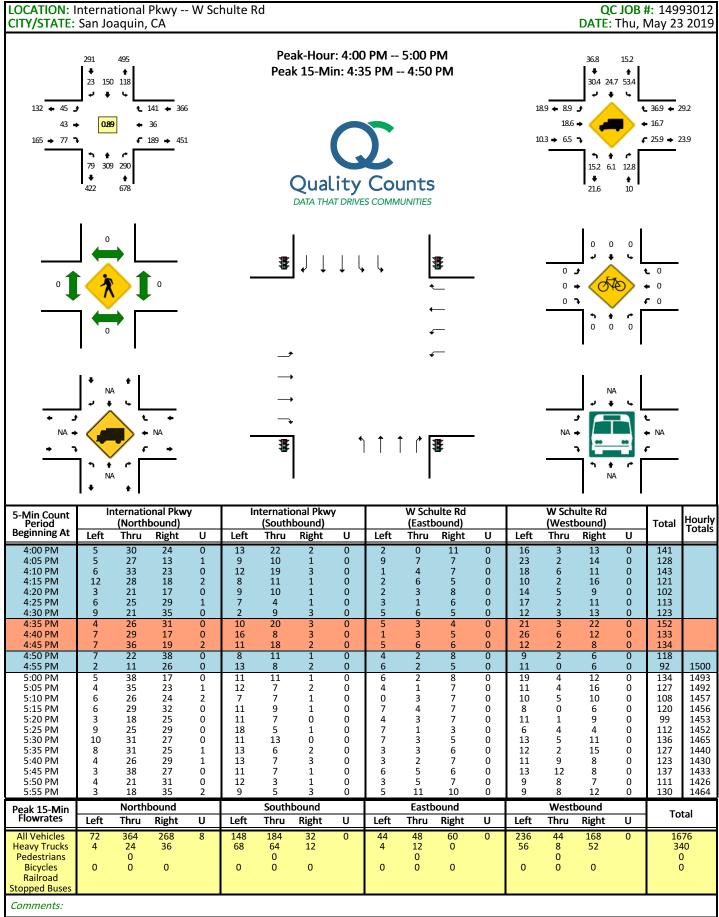


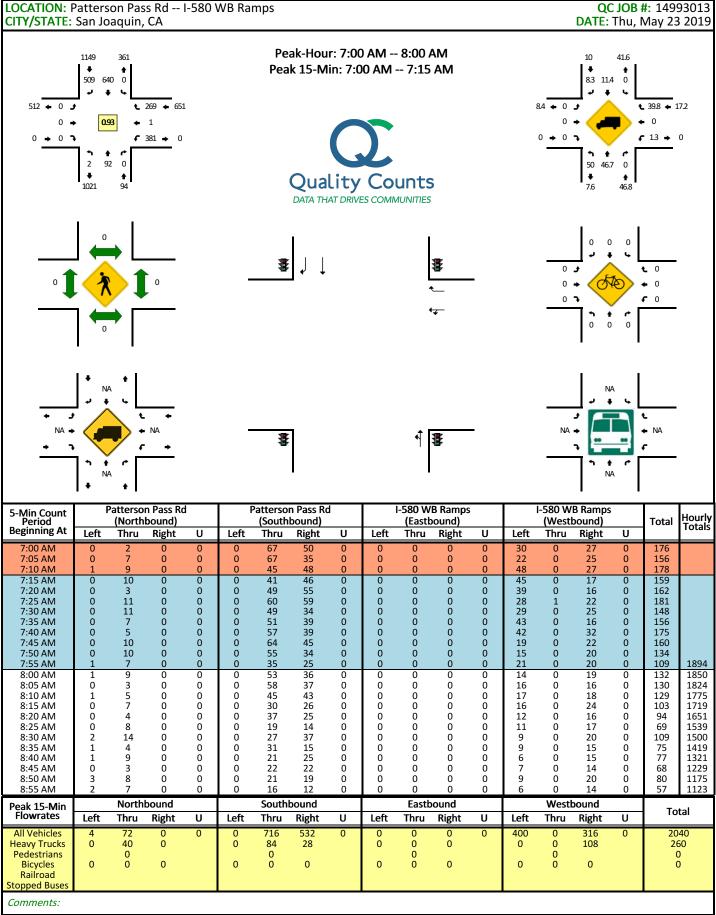
B. Traffic Counts

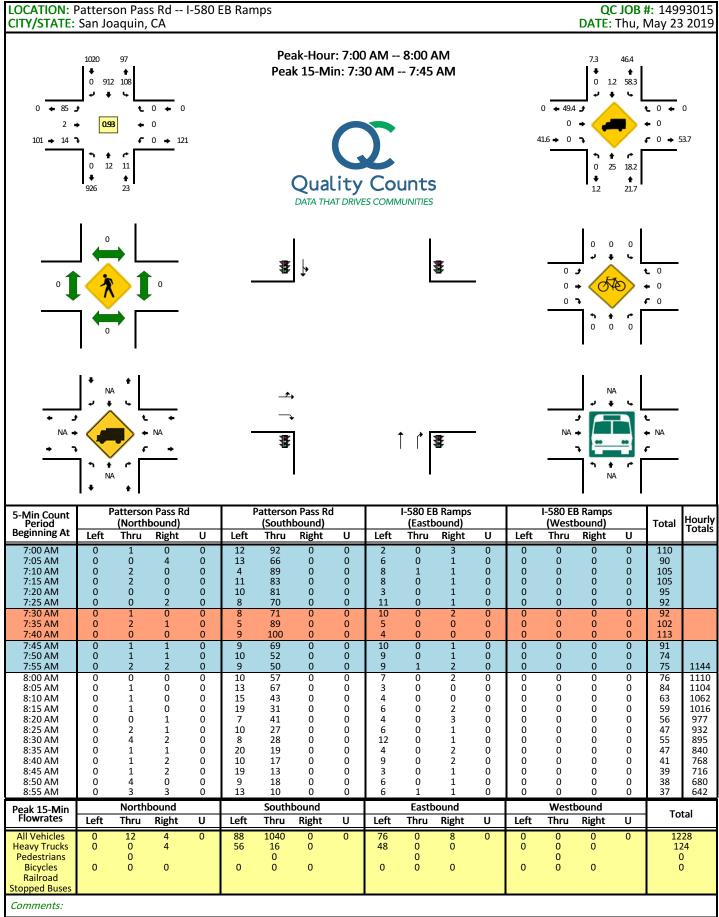


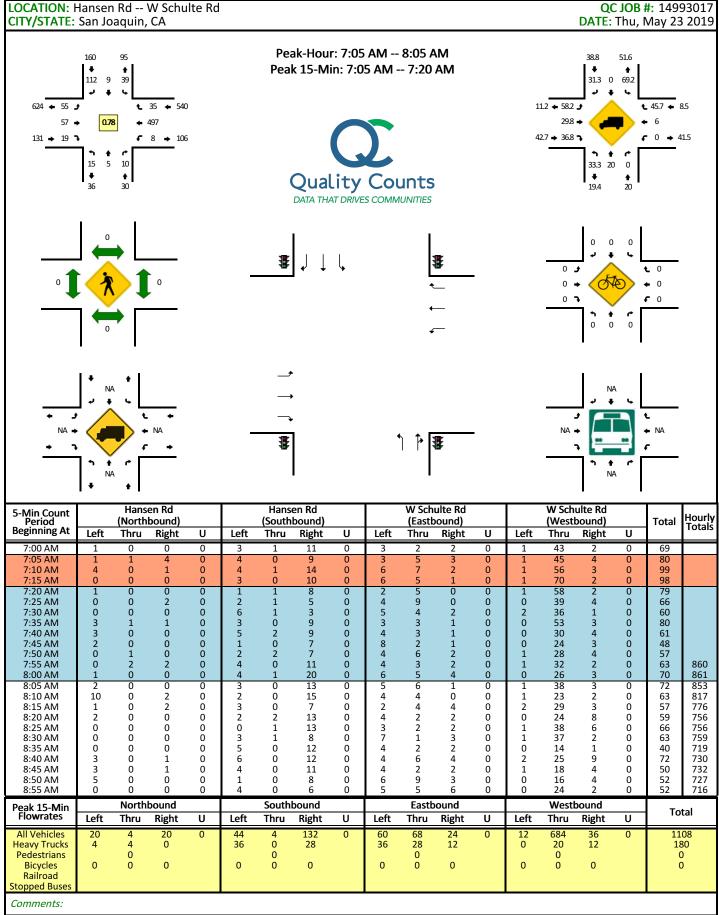


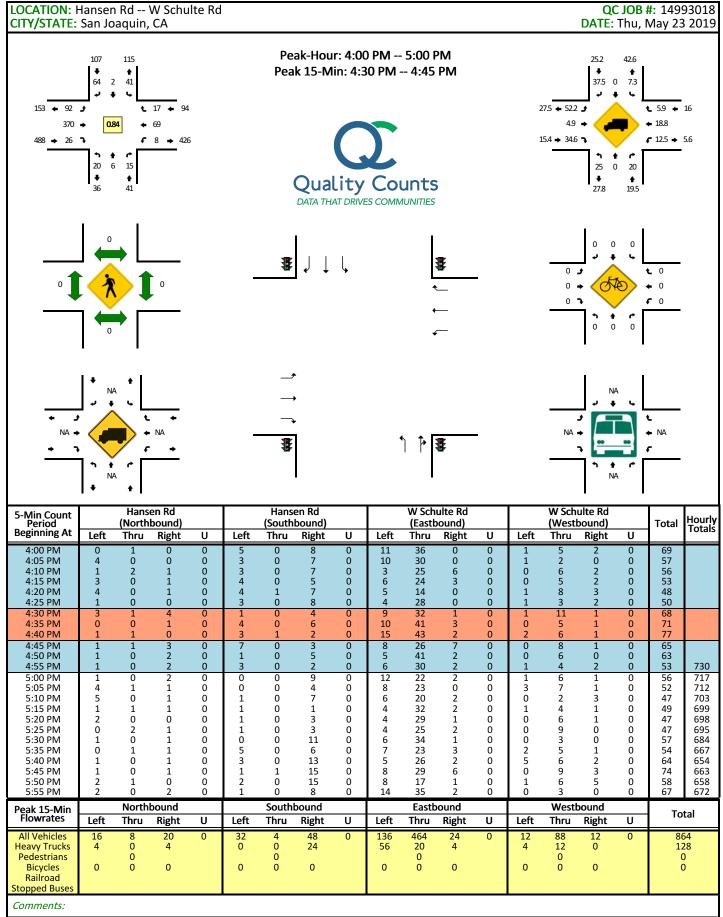










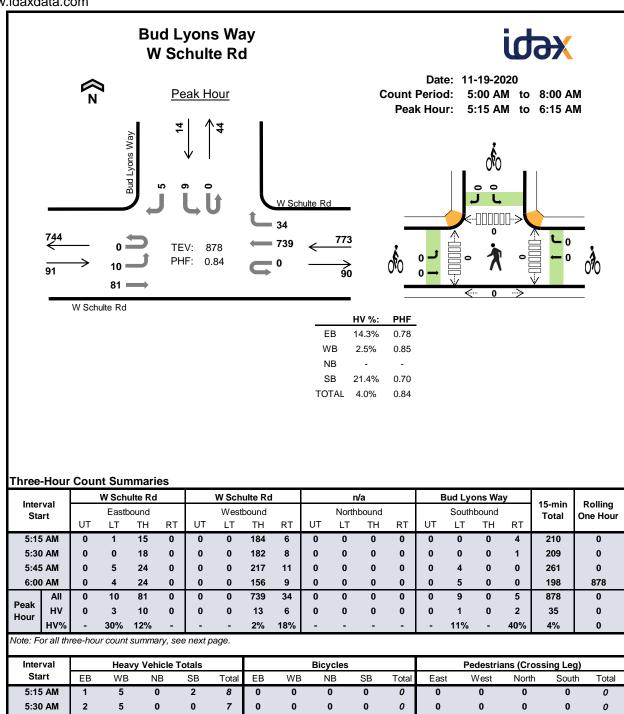


5:45 AM

6:00 AM

Project Manager: (415) 310-6469

Peak Hour



Project Manager: (415) 310-6469

Inter		W Schulte Rd				W Schulte Rd					n	/a		Е	Bud Lyc	ns Wa		D - III	
Inte			Easth	ound			Wes	tbound			North	bound			South	bound		15-min Total 130 210 209 261 198 189 164 167 118 119 97 107 1,969 878 35	Rolling One Hour
Oll		UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT		One mou
5:00) AM	0	2	1	0	0	0	120	3	0	0	0	0	0	0	0	4	130	0
5:15	AM.	0	1	15	0	0	0	184	6	0	0	0	0	0	0	0	4	210	0
5:30	AM (0	0	18	0	0	0	182	8	0	0	0	0	0	0	0	1	209	0
5:45	AM .	0	5	24	0	0	0	217	11	0	0	0	0	0	4	0	0	261	810
6:00) AM	0	4	24	0	0	0	156	9	0	0	0	0	0	5	0	0	198	878
6:15	5 AM	0	2	13	0	0	0	156	12	0	0	0	0	0	2	0	4	189	857
6:30) AM	0	1	17	0	0	0	128	13	0	0	0	0	0	4	0	1	164	812
6:45	AM.	0	2	16	0	0	0	129	16	0	0	0	0	0	1	0	3	167	718
7:00) AM	0	3	14	0	0	0	87	8	0	0	0	0	0	3	0	3	118	638
7:15	AM.	0	3	17	0	0	0	78	19	0	0	0	0	0	0	0	2	119	568
7:30) AM	0	0	10	0	0	0	77	5	0	0	0	0	0	2	0	3	97	501
7:45	AM.	0	2	19	0	0	0	70	11	0	0	0	0	0	2	0	3	107	441
Count	Total	0	25	188	0	0	0	1,584	121	0	0	0	0	0	23	0	28	1,969	0
DI.	All	0	10	81	0	0	0	739	34	0	0	0	0	0	9	0	5	878	0
Peak Hour	HV	0	3	10	0	0	0	13	6	0	0	0	0	0	1	0	2	35	0
riour	HV%	-	30%	12%	-	-	-	2%	18%	-	-	_	-	-	11%	-	40%	4%	0

Note: Three-hour count summary volumes include heavy vehicles but exclude bicycles in overall count.

	Heavy Vehicle Totals Bicycles Pedestrians (Crossing Leg)															
Interval		Heavy	Vehicle	Totals				Bicycles			Pedestrians (Crossing Leg)					
Start	EB	WB	NB	SB	Total	EB	WB	NB	SB	Total	East	West	North	South	Total	
5:00 AM	3	2	0	4	9	0	0	0	0	0	0	0	0	0	0	
5:15 AM	1	5	0	2	8	0	0	0	0	0	0	0	0	0	0	
5:30 AM	2	5	0	0	7	0	0	0	0	0	0	0	0	0	0	
5:45 AM	4	3	0	0	7	0	0	0	0	0	0	0	0	0	0	
6:00 AM	6	6	0	1	13	0	0	0	0	0	0	0	0	0	0	
6:15 AM	5	4	0	2	11	0	0	0	0	0	0	0	0	0	0	
6:30 AM	1	9	0	2	12	0	0	0	0	0	0	0	0	0	0	
6:45 AM	1	9	0	3	13	0	0	0	0	0	0	0	0	0	0	
7:00 AM	3	4	0	4	11	0	0	0	0	0	0	0	0	0	0	
7:15 AM	6	6	0	2	14	0	0	0	0	0	0	0	0	0	0	
7:30 AM	2	2	0	5	9	0	0	0	0	0	0	0	0	0	0	
7:45 AM	5	5	0	3	13	0	0	0	0	0	0	0	0	0	0	
Count Total	39	60	0	28	127	0	0	0	0	0	0	0	0	0	0	
Peak Hr	13	19	0	3	35	0	0	0	0	0	0	0	0	0	0	

Interval		W Schi	ulte Rd			W Sch	ulte Rd			n	/a		Е	Bud Lyc	ns Wa	у	15-min	Rolling
Start		Eastb	ound			West	bound			North	bound			South	bound		Total	One Hour
	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT		
5:00 AM	0	2	1	0	0	0	2	0	0	0	0	0	0	0	0	4	9	0
5:15 AM	0	0	1	0	0	0	5	0	0	0	0	0	0	0	0	2	8	0
5:30 AM	0	0	2	0	0	0	4	1	0	0	0	0	0	0	0	0	7	0
5:45 AM	0	0	4	0	0	0	2	1	0	0	0	0	0	0	0	0	7	31
6:00 AM	0	3	3	0	0	0	2	4	0	0	0	0	0	1	0	0	13	35
6:15 AM	0	2	3	0	0	0	1	3	0	0	0	0	0	0	0	2	11	38
6:30 AM	0	0	1	0	0	0	1	8	0	0	0	0	0	1	0	1	12	43
6:45 AM	0	1	0	0	0	0	5	4	0	0	0	0	0	0	0	3	13	49
7:00 AM	0	2	1	0	0	0	2	2	0	0	0	0	0	1	0	3	11	47
7:15 AM	0	1	5	0	0	0	2	4	0	0	0	0	0	0	0	2	14	50
7:30 AM	0	0	2	0	0	0	2	0	0	0	0	0	0	2	0	3	9	47
7:45 AM	0	1	4	0	0	0	4	1	0	0	0	0	0 1 0				13	47
Count Total	0	12	27	0	0	0	32	28	0	0	0	0	0	6	0	22	127	0
Peak Hour	0	3	10	0	0	0	13	6	0	0	0	0	0	1	0	2	35	0

Three-Hour Count Summaries - Bikes

Interval	W	Schulte	Rd	W	Schulte	Rd		n/a		Buc	l Lyons \	Way	15-min	Dalling
Start	E	astboun	d	\	Vestboun	nd	1	Northbour	nd	S	outhbour	nd	Total	Rolling One Hour
J 1	LT	TH	RT	LT	TH	RT	LT	TH	RT	LT	TH	RT		0.101.104.1
5:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Count Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Peak Hour	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Note: U-Turn volumes for bikes are included in Left-Turn, if any.

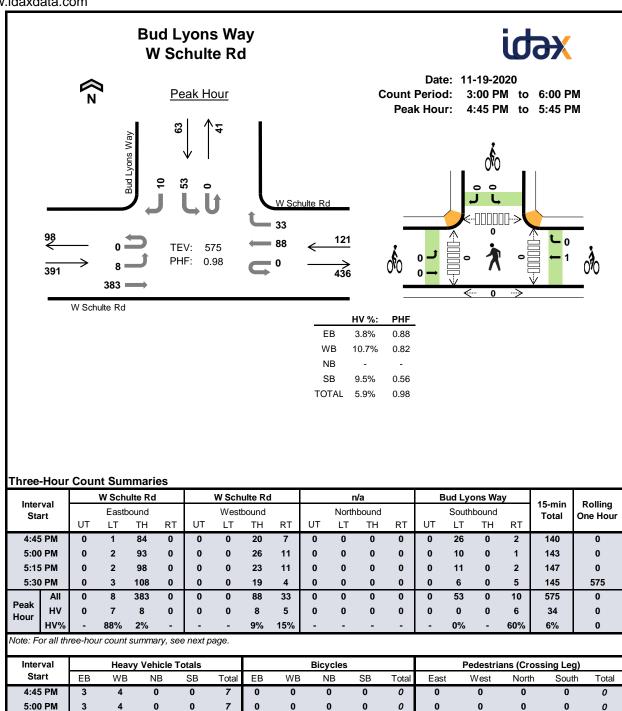
Project Manager: (415) 310-6469

5:15 PM

5:30 PM

Project Manager: (415) 310-6469

Peak Hour



Project Manager: (415) 310-6469

lmtan			W Sch	ulte Rd			W Sch	ulte Rd			n	/a		Е	Bud Lyc	ons Wa	y	4E min	Dallina
Inter Sta			East	oound			West	bound			North	bound			South	bound		15-min Total	Rolling One Hour
		UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT	Total	One near
3:00	PM (0	2	87	0	0	0	23	1	0	0	0	0	0	4	0	8	125	0
3:15	PM	0	3	86	0	0	0	26	7	0	0	0	0	0	6	0	5	133	0
3:30	PM	0	2	119	0	0	0	15	3	0	0	0	0	0	6	0	2	147	0
3:45	PM	0	3	91	0	0	0	17	3	0	0	0	0	0	10	0	5	129	534
4:00	PM	0	2	82	0	0	0	15	1	0	0	0	0	0	3	0	2	105	514
4:15	PM	0	2	93	0	0	0	14	3	0	0	0	0	0	6	0	1	119	500
4:30	PM	0	1	93	0	0	0	13	4	0	0	0	0	0	19	0	3	133	486
4:45	PM	0	1	84	0	0	0	20	7	0	0	0	0	0	26	0	2	140	497
5:00	PM (0	2	93	0	0	0	26	11	0	0	0	0	0	10	0	1	143	535
5:15	PM	0	2	98	0	0	0	23	11	0	0	0	0	0	11	0	2	147	563
5:30	PM	0	3	108	0	0	0	19	4	0	0	0	0	0	6	0	5	145	575
5:45	PM	0	1	107	0	0	0	16	4	0	0	0	0	0	4	0	2	134	569
Count	Total	0	24	1,141	0	0	0	227	59	0	0	0	0	0	111	0	38	1,600	0
D1-	All	0	8	383	0	0	0	88	33	0	0	0	0	0	53	0	10	575	0
Peak Hour	HV	0	7	8	0	0	0	8	5	0	0	0	0	0	0	0	6	34	0
ioui	HV%	-	88%	2%	-	-	-	9%	15%	-	-	-	-	-	0%	-	60%	6%	0

Note: Three-hour count summary volumes include heavy vehicles but exclude bicycles in overall count.

Interval		Heavy	Vehicle	Totals				Bicycles	3			Pedestria	ans (Cross	ing Leg)	
Start	EB	WB	NB	SB	Total	EB	WB	NB	SB	Total	East	West	North	South	Total
3:00 PM	6	2	0	5	13	0	1	0	0	1	0	0	0	0	0
3:15 PM	3	6	0	1	10	0	0	0	0	0	0	0	0	0	0
3:30 PM	4	4	0	0	8	0	0	0	0	0	0	0	0	0	0
3:45 PM	6	3	0	3	12	0	0	0	0	0	0	0	0	0	0
4:00 PM	4	3	0	1	8	0	0	0	0	0	0	0	0	0	0
4:15 PM	6	2	0	0	8	0	0	0	0	0	0	0	0	0	0
4:30 PM	0	2	0	4	6	0	0	0	0	0	0	0	0	0	0
4:45 PM	3	4	0	0	7	0	0	0	0	0	0	0	0	0	0
5:00 PM	3	4	0	0	7	0	0	0	0	0	0	0	0	0	0
5:15 PM	4	2	0	2	8	0	0	0	0	0	0	0	0	0	0
5:30 PM	5	3	0	4	12	0	1	0	0	1	0	0	0	0	0
5:45 PM	1	3	0	1	5	0	0	0	0	0	0	0	0	0	0
Count Total	45	38	0	21	104	0	2	0	0	2	0	0	0	0	0
Peak Hr	15	13	0	6	34	0	1	0	0	1	0	0	0	0	0

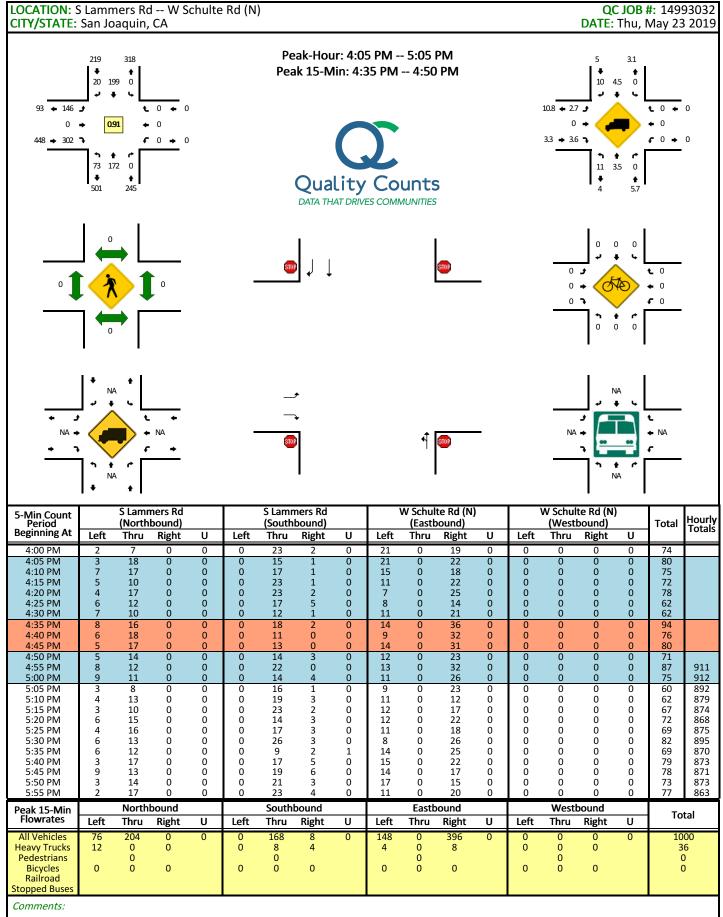
Interval		W Sch	ulte Rd			W Sch	ulte Rd			n	/a		E	Bud Lyc	ons Wa	y	15-min	Rolling
Start		Eastb	ound			West	bound			North	bound			South	bound		Total	One Hour
	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT	. • • • •	0.101.104.
3:00 PM	0	2	4	0	0	0	2	0	0	0	0	0	0	0	0	5	13	0
3:15 PM	0	1	2	0	0	0	4	2	0	0	0	0	0	0	0	1	10	0
3:30 PM	0	2	2	0	0	0	3	1	0	0	0	0	0	0	0	0	8	0
3:45 PM	0	3	3	0	0	0	2	1	0	0	0	0	0 0 0 3				12	43
4:00 PM	0	1	3	0	0	0	2	1	0	0	0	0	0	0	0	1	8	38
4:15 PM	0	2	4	0	0	0	1	1	0	0	0	0	0	0	0	0	8	36
4:30 PM	0	0	0	0	0	0	1	1	0	0	0	0	0	1	0	3	6	34
4:45 PM	0	1	2	0	0	0	2	2	0	0	0	0	0	0	0	0	7	29
5:00 PM	0	1	2	0	0	0	2	2	0	0	0	0	0	0	0	0	7	28
5:15 PM	0	2	2	0	0	0	2	0	0	0	0	0	0	0	0	2	8	28
5:30 PM	0	3	2	0	0	0	2	1	0	0	0	0				4	12	34
5:45 PM	0	1	0	0	0	0	1	2	0	0	0	0	0	0	0	1	5	32
Count Total	0	19	26	0	0	0	24	14	0	0	0	0	0	1	0	20	104	0
Peak Hour	0	7	8	0	0	0	8	5	0	0	0	0	0	0	0	6	34	0

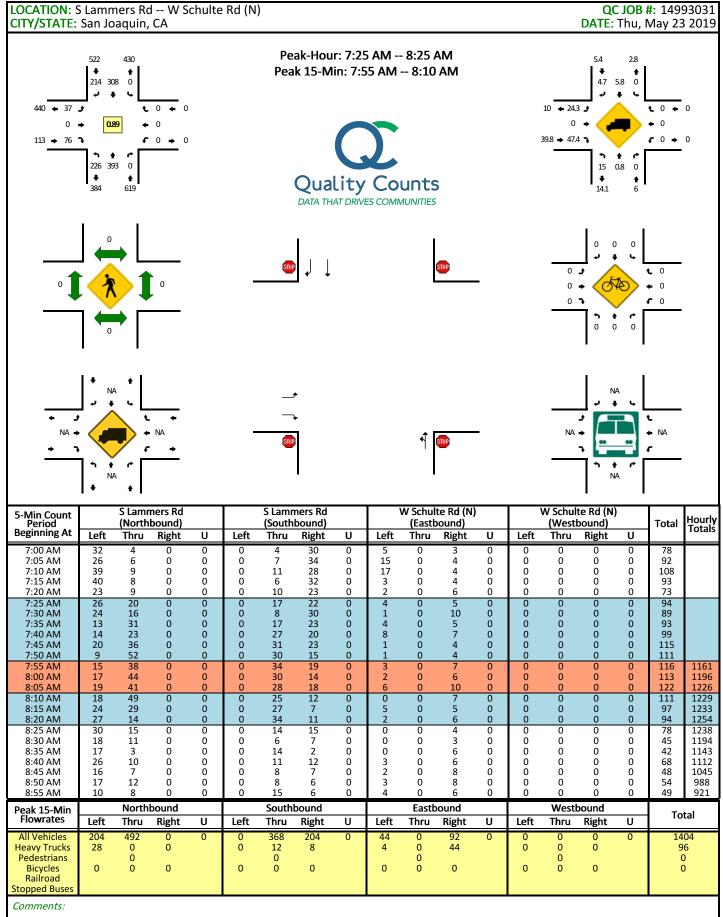
Three-Hour Count Summaries - Bikes

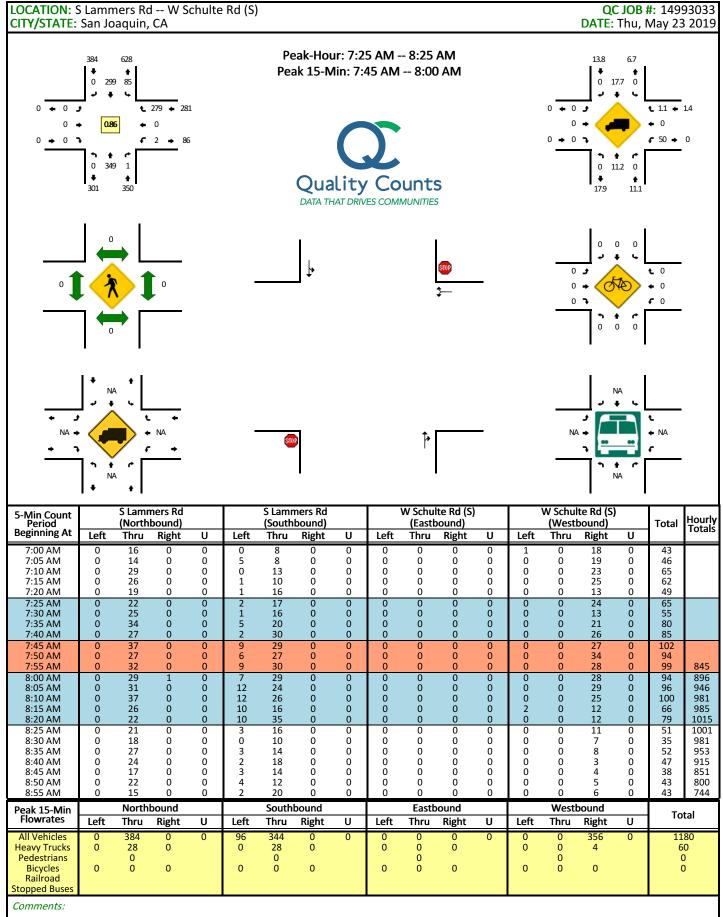
Interval	W	Schulte	Rd	W	Schulte	Rd		n/a		Buc	l Lyons \	Way	45	Dalling
Interval Start	ı	Eastboun	d	\	Vestboun	nd	1	Northbour	nd	S	outhbour	nd	15-min Total	Rolling One Hour
O tail t	LT	TH	RT	LT	TH	RT	LT	TH	RT	LT	TH	RT		0.101.104.1
3:00 PM	0	0	0	0	1	0	0	0	0	0	0	0	1	0
3:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	1
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:30 PM	0	0	0	0	1	0	0	0	0	0	0	0	1	1
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Count Total	0	0	0	0	2	0	0	0	0	0	0	0	2	0
Peak Hour	0	0	0	0	1	0	0	0	0	0	0	0	1	0

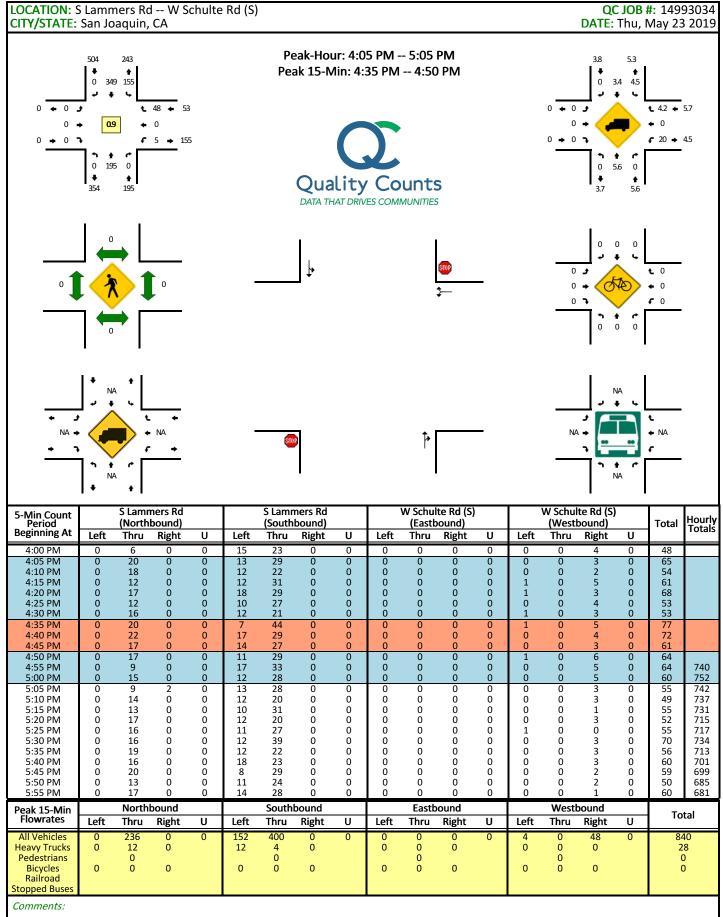
Note: U-Turn volumes for bikes are included in Left-Turn, if any.

Project Manager: (415) 310-6469











C. Background Conditions Synchro Outputs

	۶	→	•	•	-	•	1	†	/	/	↓	
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations					4	77	ሻ	44			ተተተ	7
Traffic Volume (veh/h)	0	0	0	764	323	178	24	239	0	0	768	656
Future Volume (veh/h)	0	0	0	764	323	178	24	239	0	0	768	656
Initial Q (Qb), veh				0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)				1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach				4.50	No	4.50	4.50	No			No	4.50
Adj Sat Flow, veh/h/ln				1678	1678	1678	1678	1678	0	0	1678	1678
Adj Flow Rate, veh/h				840	355	196	26	263	0	0	844	721
Peak Hour Factor				0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91
Percent Heavy Veh, %				15	15	15	15	15	0	0	15	15
Cap, veh/h				426	180	936	73	1478	0	0	1603	498
Arrive On Green				0.39	0.37	0.37	0.05	0.46	0.00	0.00	0.35	0.35
Sat Flow, veh/h				1139	481	2502	1598	3272	0	0	4731	1422
Grp Volume(v), veh/h				1195	0	196	26	263	0	0	844	721
Grp Sat Flow(s), veh/h/ln				1621	0	1251	1598	1594	0	0	1527	1422
Q Serve(g_s), s				24.9	0.0	3.5	1.1	3.2	0.0	0.0	9.8	23.3
Cycle Q Clear(g_c), s				24.9	0.0	3.5	1.1	3.2	0.0	0.0	9.8	23.3
Prop In Lane				0.70	0	1.00	1.00	1.470	0.00	0.00	1/00	1.00
Lane Grp Cap(c), veh/h				606	0	936	73	1478	0	0	1603	498
V/C Ratio(X)				1.97	0.00	0.21	0.35	0.18	0.00	0.00	0.53	1.45
Avail Cap(c_a), veh/h				606 1.00	0 1.00	936 1.00	396	2122	1.00	1.00	1603	498
HCM Platoon Ratio				1.00	0.00	1.00	1.00 1.00	1.00	1.00	1.00	1.00	1.00 1.00
Upstream Filter(I) Uniform Delay (d), s/veh				20.4	0.00	14.1	30.8	1.00	0.00	0.00	17.2	21.6
Incr Delay (d2), s/veh				442.8	0.0	0.1	1.1	0.0	0.0	0.0	0.2	21.0
Initial Q Delay(d3),s/veh				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0
%ile BackOfQ(50%),veh/ln				82.8	0.0	0.9	0.4	1.0	0.0	0.0	3.2	36.4
Unsig. Movement Delay, s/veh				02.0	0.0	0.7	0.4	1.0	0.0	0.0	J.Z	30.4
LnGrp Delay(d),s/veh				463.2	0.0	14.2	31.9	10.5	0.0	0.0	17.4	234.5
LnGrp LOS				+03.2 F	Α	В	C	В	Α	Α	В	234.3 F
Approach Vol, veh/h				<u>'</u>	1391			289			1565	•
Approach Delay, s/veh					399.9			12.4			117.4	
Approach LOS					F			В			F	
Timer - Assigned Phs		2			5	6		8				
Phs Duration (G+Y+Rc), s		36.6			7.6	29.0		30.0				
Change Period (Y+Rc), s		5.7			4.5	5.7		5.1				
Max Green Setting (Gmax), s		44.3			16.5	23.3		24.9				
Max Q Clear Time (g_c+l1), s		5.2			3.1	25.3		26.9				
Green Ext Time (p_c), s		0.7			0.0	0.0		0.0				
Intersection Summary												
HCM 6th Ctrl Delay			229.2									
HCM 6th LOS			F									

			•	•		`	7	ı		*	*	*	
Movement EF	3L	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	ኘ	4	7					^	7		^		
	48	0	73	0	0	0	0	218	368	0	1228	0	
	48	0	73	0	0	0	0	218	368	0	1228	0	
Initial Q (Qb), veh	0	0	0				0	0	0	0	0	0	
Ped-Bike Adj(A_pbT) 1.0			1.00				1.00		1.00	1.00		1.00	
Parking Bus, Adj 1.0		1.00	1.00				1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approach	50	No	1.00				1.00	No	1.00	1100	No	1.00	
Adj Sat Flow, veh/h/ln 16	78	1678	1678				0	1678	1678	0	1678	0	
	51	0	77				0	229	387	0	1293	0	
Peak Hour Factor 0.9		0.95	0.95				0.95	0.95	0.95	0.95	0.95	0.95	
	15	15	15				0.70	15	15	0.70	15	0.70	
	45	0	153				0	2333	1040	0	2333	0	
Arrive On Green 0.7		0.00	0.11				0.00	0.73	0.73	0.00	0.73	0.00	
Sat Flow, veh/h 319		0.00	1422				0.00	3272	1422	0.00	3355	0.00	
	51	0	77				0	229	387	0	1293	0	
Grp Sat Flow(s), veh/h/ln15		0	1422				0	1594	1422	0	1594	0	
	.0	0.0	3.4				0.0	1.4	6.8	0.0	12.3	0.0	
	.0	0.0	3.4				0.0	1.4	6.8	0.0	12.3	0.0	
Prop In Lane 1.0		0.0	1.00				0.00	1.4	1.00	0.00	12.3	0.00	
Lane Grp Cap(c), veh/h 34		Λ	153				0.00	2333	1040	0.00	2333	0.00	
V/C Ratio(X) 0.2		0.00	0.50				0.00	0.10	0.37	0.00	0.55	0.00	
` '	13 44	0.00	420				0.00	2333	1040	0.00	2333	0.00	
Avail Cap(c_a), veh/h 94 HCM Platoon Ratio 1.0		1.00	1.00				1.00	1.00	1.00	1.00	1.00	1.00	
		0.00	1.00				0.00	1.00	1.00	0.00	1.00	0.00	
		0.00	28.3					2.6	3.3	0.00		0.00	
Uniform Delay (d), s/veh 27	.2 1.1	0.0	0.9				0.0	0.1	1.0	0.0	4.1	0.0	
J ():								0.1		0.0			
Initial Q Delay(d3),s/veh 0		0.0	0.0				0.0		0.0		0.0	0.0	
%ile BackOfQ(50%),veh/ln		0.0	1.2				0.0	0.3	1.4	0.0	2.6	0.0	
Unsig. Movement Delay, s/			20.2				0.0	2.7	1.1	0.0	ГΛ	0.0	
LnGrp Delay(d),s/veh 27		0.0	29.3				0.0	2.7	4.4	0.0	5.0	0.0	
LnGrp LOS	С	A	С				A	A	A	A	A	A	
Approach Vol, veh/h		128						616			1293		
Approach Delay, s/veh		28.5						3.7			5.0		
Approach LOS		С						Α			Α		
Timer - Assigned Phs		2		4		6							
Phs Duration (G+Y+Rc), s		55.0		12.4		55.0							
Change Period (Y+Rc), s		5.7		5.1		5.7							
Max Green Setting (Gmax)	. S	49.3		19.9		49.3							
Max Q Clear Time (g_c+l1)	•	8.8		5.4		14.3							
Green Ext Time (p_c), s	,, 0	1.8		0.1		4.7							
Intersection Summary													
HCM 6th Ctrl Delay			6.1										
HCM 6th LOS			Α										
Notes													

User approved volume balancing among the lanes for turning movement.

9	•	→	•	•	←	•	1	†	/	/	ţ	√	
Movement EI	BL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	ř	^	7	1/4	†	7	ħ	^	7	14.54	^	7	
Traffic Volume (veh/h)	29	22	219	806	74	250	66	267	267	181	924	27	
Future Volume (veh/h)	29	22	219	806	74	250	66	267	267	181	924	27	
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0	
Ped-Bike Adj(A_pbT) 1.	00		1.00	1.00		1.00	1.00		1.00	1.00		1.00	
Parking Bus, Adj 1.	00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approach		No			No			No			No		
Adj Sat Flow, veh/h/ln 10	60	1589	1678	1060	1589	1678	1060	1589	1678	1060	1589	1678	
Adj Flow Rate, veh/h	31	24	235	867	80	269	71	287	287	195	994	29	
Peak Hour Factor 0.5	93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	
	15	15	15	15	15	15	15	15	15	15	15	15	
Cap, veh/h	62	412	194	534	553	494	80	860	404	225	968	456	
Arrive On Green 0.	06	0.14	0.14	0.27	0.35	0.35	0.08	0.28	0.28	0.11	0.32	0.32	
Sat Flow, veh/h 10	09	3020	1422	1958	1589	1419	1009	3020	1417	1958	3020	1422	
Grp Volume(v), veh/h	31	24	235	867	80	269	71	287	287	195	994	29	
Grp Sat Flow(s), veh/h/ln10	09	1510	1422	979	1589	1419	1009	1510	1417	979	1510	1422	
Q Serve(g_s), s	1.4	1.0	20.0	40.0	5.1	22.4	10.2	11.0	26.6	14.4	47.0	2.1	
Cycle Q Clear(g_c), s 4	1.4	1.0	20.0	40.0	5.1	22.4	10.2	11.0	26.6	14.4	47.0	2.1	
Prop In Lane 1.	00		1.00	1.00		1.00	1.00		1.00	1.00		1.00	
Lane Grp Cap(c), veh/h	62	412	194	534	553	494	80	860	404	225	968	456	
	50	0.06	1.21	1.62	0.14	0.54	0.89	0.33	0.71	0.87	1.03	0.06	
Avail Cap(c_a), veh/h 1:	38	412	194	534	553	494	138	968	454	334	968	456	
HCM Platoon Ratio 1.	00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Upstream Filter(I) 1.	00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Uniform Delay (d), s/veh66	5.6	55.1	63.3	53.3	32.8	38.5	66.8	41.4	47.0	63.8	49.8	34.6	
Incr Delay (d2), s/veh 6	5.1	0.1	133.3	289.1	0.1	1.2	27.6	0.2	4.5	14.5	36.0	0.1	
Initial Q Delay(d3),s/veh C	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%), veh/lf1	1.2	0.4	14.3	31.0	2.0	7.8	3.3	4.2	9.7	4.0	22.5	0.7	
Unsig. Movement Delay, sa	/veh												
	2.8	55.2	196.6	342.4	33.0	39.7	94.4	41.7	51.5	78.3	85.8	34.6	
LnGrp LOS	Ε	Е	F	F	С	D	F	D	D	Е	F	С	
Approach Vol, veh/h		290			1216			645			1218		
Approach Delay, s/veh		171.7			255.1			51.8			83.4		
Approach LOS		F			F			D			F		
Timer - Assigned Phs	1	2	3	4	5	6	7	8					
Phs Duration (G+Y+Rc), 23	2 0	48.8	47.0	27.0	18.6	54.0	16.0	58.0					
Change Period (Y+Rc), s 7		7.0	7.0	7.0	7.0	7.0	7.0	7.0					
Max Green Setting (Gmax6)		47.0	40.0	20.0	20.0	47.0	20.0	47.0					
Max Q Clear Time (g_c+116		28.6	42.0	22.0	12.2	49.0	6.4	24.4					
Green Ext Time (p_c), s		2.6	0.0	0.0	0.1	0.0	0.4	1.4					
	J.J	2.0	0.0	0.0	0.1	0.0	0.0	1.4					
Intersection Summary													
HCM 6th Ctrl Delay			146.9										
HCM 6th LOS			F										

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations					4	1		4			†	7
Traffic Volume (veh/h)	0	0	0	381	1	510	2	99	0	0		809
Future Volume (veh/h)	0	0	0	381	1	510	2	99	0	0	1166	809
Initial Q (Qb), veh				0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)				1.00	_	1.00	1.00		1.00	1.00	_	1.00
Parking Bus, Adj				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach				1.00	No	1.00	1.00	No	1100	1100	No	1.00
Adj Sat Flow, veh/h/ln				1678	1678	1678	1678	1678	0	0		1678
Adj Flow Rate, veh/h				410	1	0	2	106	0	0	1254	870
Peak Hour Factor				0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
Percent Heavy Veh, %				15	15	15	15	15	0.70	0.70	15	15
Cap, veh/h				719	2	10	2	130	0	0	624	529
Arrive On Green				0.45	0.45	0.00	0.08	0.08	0.00	0.00	0.37	0.37
Sat Flow, veh/h				1594	4	1422	31	1645	0.00	0.00	1678	1422
Grp Volume(v), veh/h				411	0	0	108	0	0	0	1254	870
Grp Sat Flow(s), veh/h/ln				1598	0	1422	1676	0	0	0	1678	1422
Q Serve(q_s), s				32.3	0.0	0.0	10.8	0.0	0.0	0.0	63.2	63.2
Cycle Q Clear(g_c), s				32.3	0.0	0.0	10.8	0.0	0.0	0.0	63.2	63.2
Prop In Lane				1.00	0.0	1.00	0.02	0.0	0.00	0.00	03.2	1.00
Lane Grp Cap(c), veh/h				721	0	1.00	132	0	0.00	0.00	624	529
V/C Ratio(X)				0.57	0.00		0.82	0.00	0.00	0.00	2.01	1.65
				721	0.00		288	0.00	0.00	0.00	624	529
Avail Cap(c_a), veh/h						1.00						
HCM Platoon Ratio				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)				1.00	0.00	0.00	0.99	0.00	0.00	0.00	1.00	1.00
Uniform Delay (d), s/veh				34.5	0.0	0.0	77.1	0.0	0.0	0.0	53.4	53.4
Incr Delay (d2), s/veh				3.3	0.0	0.0	22.1	0.0	0.0	0.0	460.4	299.1
Initial Q Delay(d3),s/veh	/I			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%), veh/				13.4	0.0	0.0	5.5	0.0	0.0	0.0	106.3	66.4
Unsig. Movement Delay,	s/ver	1		07.7	0.0	0.0	00.0	0.0	0.0	0.0	E40.0	252.5
LnGrp Delay(d),s/veh				37.7	0.0	0.0	99.2	0.0	0.0	0.0		352.5
LnGrp LOS				D	A		F	A	A	A	F	F
Approach Vol, veh/h					411	Α		108			2124	
Approach Delay, s/veh					37.7			99.2			447.7	
Approach LOS					D			F			F	
Timer - Assigned Phs		2				6		8				
Phs Duration (G+Y+Rc),	S	19.2				69.0		81.8				
Change Period (Y+Rc), s		5.8				5.8		5.1				
Max Green Setting (Gma		29.2				63.2		60.9				
Max Q Clear Time (q_c+		12.8				65.2		34.3				
Green Ext Time (p_c), s	, , , ,	0.6				0.0		1.8				
		0.0				0.0		1.0				
Intersection Summary			2/07									
HCM 6th Ctrl Delay			369.7									
HCM 6th LOS			F									
Notes												

Unsignalized Delay for [WBR] is excluded from calculations of the approach delay and intersection delay.

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations		4	7					↑	7		4		
Traffic Volume (veh/h)	92	2	14	0	0	0	0	12	11	280	1266	0	
Future Volume (veh/h)	92	2	14	0	0	0	0	12	11	280	1266	0	
Initial Q (Qb), veh	0	0	0	· ·	, ,		0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)	1.00		1.00				1.00		1.00	1.00		1.00	
Parking Bus, Adj	1.00	1.00	1.00				1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approac		No	1.00				1.00	No	1.00	1.00	No	1.00	
Adj Sat Flow, veh/h/ln	1678	1678	1678				0	1678	1678	1678	1678	0	
Adj Flow Rate, veh/h	99	2	0				0	13	12	301	1361	0	
Peak Hour Factor	0.93	0.93	0.93				0.93	0.93	0.93	0.93	0.93	0.93	
Percent Heavy Veh, %		15	15				0.75	15	15	15	15	0.73	
Cap, veh/h	118	2	10				0	161	137	220	995	0	
Arrive On Green	0.07	0.07	0.00				0.00	0.10	0.10	1.00	1.00	0.00	
Sat Flow, veh/h	1568	32	1422				0.00	1678	1422	301	1362	0.00	
Grp Volume(v), veh/h	101	0	0 1422				0	13	12 1422	1662	0	0	
Grp Sat Flow(s), veh/h/l		0					0	1678		1663	0		
Q Serve(g_s), s	10.6	0.0	0.0				0.0	1.2	1.3	116.7	0.0	0.0	
Cycle Q Clear(g_c), s	10.6	0.0	0.0				0.0	1.2	1.3	116.7	0.0	0.0	
Prop In Lane	0.98	0	1.00				0.00	1/1	1.00	0.18	0	0.00	
Lane Grp Cap(c), veh/h		0					0	161	137	1215	0	0	
V/C Ratio(X)	0.84	0.00					0.00	0.08	0.09	1.37	0.00	0.00	
Avail Cap(c_a), veh/h	215	0	4.00				0	161	137	1215	0	0	
HCM Platoon Ratio	1.00	1.00	1.00				1.00	1.00	1.00	2.00	2.00	1.00	
Upstream Filter(I)	1.00	0.00	0.00				0.00	1.00	1.00	0.09	0.00	0.00	
Uniform Delay (d), s/ve		0.0	0.0				0.0	70.0	70.0	0.0	0.0	0.0	
Incr Delay (d2), s/veh	16.9	0.0	0.0				0.0	0.2	0.3	166.2	0.0	0.0	
Initial Q Delay(d3),s/ve		0.0	0.0				0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),ve		0.0	0.0				0.0	0.5	0.5	56.1	0.0	0.0	
Unsig. Movement Dela	-												
LnGrp Delay(d),s/veh	94.6	0.0	0.0				0.0	70.2	70.3	166.2	0.0	0.0	
LnGrp LOS	F	A					A	E	E	F	A	A	
Approach Vol, veh/h		101	Α					25			1662		
Approach Delay, s/veh		94.6						70.2			166.2		
Approach LOS		F						Ε			F		
Timer - Assigned Phs		2		4		6							
Phs Duration (G+Y+Ro), s	22.2		17.8		130.0							
Change Period (Y+Rc)		5.8		5.1		5.8							
Max Green Setting (Gn		6.2		22.9		124.2							
Max Q Clear Time (g_c		3.3		12.6		118.7							
Green Ext Time (p_c),		0.0		0.3		5.4							
Intersection Summary													
HCM 6th Ctrl Delay			160.8										
HCM 6th LOS			100.8 F										
			'										
Notes													

Unsignalized Delay for [EBR] is excluded from calculations of the approach delay and intersection delay.

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	ች		7	ሻ	†	7	ሻ	î,			†	7	
Traffic Volume (veh/h)	116	114	19	8	644	150	15	5	10	97	9	184	
Future Volume (veh/h)	116	114	19	8	644	150	15	5	10	97	9	184	
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approac	ch	No			No			No			No		
Adj Sat Flow, veh/h/ln	1678	1678	1678	1678	1678	1678	1678	1678	1678	1678	1678	1678	
Adj Flow Rate, veh/h	138	136	23	10	767	179	18	6	12	115	11	219	
Peak Hour Factor	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	
Percent Heavy Veh, %	15	15	15	15	15	15	15	15	15	15	15	15	
Cap, veh/h	168	867	735	35	728	617	58	54	108	148	276	234	
Arrive On Green	0.11	0.52	0.52	0.02	0.43	0.43	0.04	0.11	0.11	0.09	0.16	0.16	
Sat Flow, veh/h	1598	1678	1422	1598	1678	1422	1598	499	999	1598	1678	1422	
Grp Volume(v), veh/h	138	136	23	10	767	179	18	0	18	115	11	219	
Grp Sat Flow(s), veh/h/l		1678	1422	1598	1678	1422	1598	0	1498	1598	1678	1422	
Q Serve(g_s), s	7.8	3.9	0.7	0.6	40.0	7.5	1.0	0.0	1.0	6.5	0.5	14.0	
Cycle Q Clear(g_c), s	7.8	3.9	0.7	0.6	40.0	7.5	1.0	0.0	1.0	6.5	0.5	14.0	
Prop In Lane	1.00		1.00	1.00		1.00	1.00		0.67	1.00		1.00	
Lane Grp Cap(c), veh/h		867	735	35	728	617	58	0	162	148	276	234	
V/C Ratio(X)	0.82	0.16	0.03	0.28	1.05	0.29	0.31	0.00	0.11	0.78	0.04	0.93	
Avail Cap(c_a), veh/h	260	867	735	260	728	617	260	0	244	260	276	234	
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	
Uniform Delay (d), s/ve		11.7	10.9	44.4	26.1	16.9	43.3	0.0	37.1	40.9	32.4	38.0	
Incr Delay (d2), s/veh	11.5	0.1	0.0	4.3	48.4	0.4	3.0	0.0	0.4	8.5	0.1	41.5	
Initial Q Delay(d3),s/vel		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),ve		1.3	0.2	0.3	23.8	2.4	0.4	0.0	0.4	2.9	0.2	7.5	
Unsig. Movement Dela			0.2	0.0	20.0		0.1	0.0	011	,	0.2	7.10	
LnGrp Delay(d),s/veh	51.9	11.8	11.0	48.7	74.5	17.3	46.4	0.0	37.5	49.4	32.5	79.5	
LnGrp LOS	D	В	В	D	7 1.0 F	В	D	A	D	D	C	F	
Approach Vol, veh/h		297			956			36			345		
Approach Delay, s/veh		30.4			63.5			41.9			68.0		
Approach LOS		C			E			D			E		
							_						
Timer - Assigned Phs	1	2	3	4	5	6	7	8					
Phs Duration (G+Y+Rc)	•	54.2	14.0	15.5	16.2	46.5	8.8	20.7					
Change Period (Y+Rc),		6.5	5.5	5.5	6.5	6.5	5.5	5.5					
Max Green Setting (Gn		40.0	15.0	15.0	15.0	40.0	15.0	15.0					
Max Q Clear Time (g_c		5.9	8.5	3.0	9.8	42.0	3.0	16.0					
Green Ext Time (p_c),	s 0.0	0.9	0.2	0.0	0.2	0.0	0.0	0.0					
Intersection Summary													
HCM 6th Ctrl Delay			58.0										
HCM 6th LOS			E										
Notes													

User approved pedestrian interval to be less than phase max green.

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Movement EB	. EBT	T WE	T WBR	SBL	SBR
Lane Configurations			*	ሻ	7
Traffic Volume (veh/h) 3				22	13
Future Volume (veh/h) 3				22	13
) 0		0 0	0	0
Ped-Bike Adj(A_pbT) 1.00		•	1.00	1.00	1.00
Parking Bus, Adj 1.00		0 1.0		1.00	1.00
Work Zone On Approach	No			No	1.00
Adj Sat Flow, veh/h/ln 1678				1678	1678
Adj Flow Rate, veh/h 3				26	15
Peak Hour Factor 0.8				0.84	0.84
Percent Heavy Veh, % 1				15	15
Cap, veh/h 50				119	106
Arrive On Green 0.04				0.07	0.07
Sat Flow, veh/h 1599				1598	1422
				26	15
1 ,,,					
Grp Sat Flow(s), veh/h/ln159				1598	1422
Q Serve(g_s), s 1.5				1.2	0.8
Cycle Q Clear(g_c), s 1.8		5 37		1.2	0.8
Prop In Lane 1.00			1.00	1.00	1.00
Lane Grp Cap(c), veh/h 5				119	106
V/C Ratio(X) 0.6				0.22	0.14
Avail Cap(c_a), veh/h 16			8 668	489	435
HCM Platoon Ratio 1.0	1.00	0 1.0	0 1.00	1.00	1.00
Upstream Filter(I) 0.9	0.96	6 1.0	1.00	1.00	1.00
Uniform Delay (d), s/veh38.	9.2	2 21	2 12.0	34.8	34.6
Incr Delay (d2), s/veh 12.		6 101	5 0.4	0.9	0.6
Initial Q Delay(d3),s/veh 0.0				0.0	0.0
%ile BackOfQ(50%), veh/ln0.				0.5	0.3
Unsig. Movement Delay, s/v		0 0.	0.7	0.0	0.0
LnGrp Delay(d),s/veh 50.3		7 122	7 12.4	35.7	35.2
LnGrp LOS			F B	D	D
	263			41	D D
Approach Vol, veh/h					
Approach Delay, s/veh	15.4			35.5	
Approach LOS	В	В		D	
Timer - Assigned Phs	2	2		5	6
Phs Duration (G+Y+Rc), s	50.9	9		6.8	44.1
Change Period (Y+Rc), s	6.5			4.0	6.5
Max Green Setting (Gmax),				8.4	32.0
Max Q Clear Time (q_c+I1),				3.8	39.6
Green Ext Time (p_c), s	1.2			0.0	0.0
·	1.2	_		0.0	0.0
Intersection Summary					
HCM 6th Ctrl Delay		91	4		
HCM 6th LOS			F		
HCIVI bili LUS			F		

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Movement I	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	ř	ĵ.		ř	ĥ			4			4		
Traffic Volume (veh/h)	8	224	2	0	832	13	1	0	2	34	0	2	
Future Volume (veh/h)	8	224	2	0	832	13	1	0	2	34	0	2	
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approach		No			No			No			No		
Adj Sat Flow, veh/h/ln 1	752	1870	1752	1752	1870	1752	1752	1752	1752	1752	1752	1752	
Adj Flow Rate, veh/h	11	303	3	0	1124	18	1	0	3	46	0	3	
Peak Hour Factor (0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	
Percent Heavy Veh, %	10	2	10	10	2	10	10	10	10	10	10	10	
Cap, veh/h	18	1329	13	2	1196	19	21	0	64	87	0	6	
Arrive On Green (0.01	0.72	0.72	0.00	0.65	0.65	0.06	0.00	0.06	0.06	0.00	0.06	
Sat Flow, veh/h 1	668	1849	18	1668	1836	29	382	0	1145	1554	0	101	
Grp Volume(v), veh/h	11	0	306	0	0	1142	4	0	0	49	0	0	
Grp Sat Flow(s), veh/h/ln1	668	0	1867	1668	0	1865	1527	0	0	1656	0	0	
Q Serve(g_s), s	0.5	0.0	3.9	0.0	0.0	39.1	0.2	0.0	0.0	2.0	0.0	0.0	
Cycle Q Clear(q_c), s	0.5	0.0	3.9	0.0	0.0	39.1	0.2	0.0	0.0	2.0	0.0	0.0	
,0_,	1.00		0.01	1.00		0.02	0.25		0.75	0.94		0.06	
Lane Grp Cap(c), veh/h	18	0	1342	2	0	1215	86	0	0	93	0	0	
V/C Ratio(X)	0.60	0.00	0.23	0.00	0.00	0.94	0.05	0.00	0.00	0.53	0.00	0.00	
Avail Cap(c_a), veh/h	94	0	1365	94	0	1364	86	0	0	93	0	0	
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Upstream Filter(I)	1.00	0.00	1.00	0.00	0.00	1.00	1.00	0.00	0.00	1.00	0.00	0.00	
Uniform Delay (d), s/veh3	35.0	0.0	3.4	0.0	0.0	11.1	31.8	0.0	0.0	32.6	0.0	0.0	
	27.6	0.0	0.1	0.0	0.0	12.0	0.2	0.0	0.0	5.4	0.0	0.0	
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%), veh/		0.0	1.0	0.0	0.0	15.8	0.1	0.0	0.0	0.9	0.0	0.0	
Unsig. Movement Delay,)											
	62.6	0.0	3.4	0.0	0.0	23.1	32.0	0.0	0.0	38.0	0.0	0.0	
LnGrp LOS	Ε	Α	Α	Α	Α	С	С	Α	Α	D	Α	Α	
Approach Vol, veh/h		317			1142			4			49		
Approach Delay, s/veh		5.5			23.1			32.0			38.0		
Approach LOS		A			С			C			D		
Timer - Assigned Phs	1	2		4	5	6		8					
Phs Duration (G+Y+Rc),	4) U	55.1		8.0	4.8	50.3		8.0					
Change Period (Y+Rc), s		4.0		4.0	4.0	4.0		4.0					
Max Green Setting (Gma		52.0		4.0	4.0	52.0		4.0					
Max Q Clear Time (q_c+		5.9		2.2	2.5	41.1		4.0					
Green Ext Time (p_c), s	, .	1.3		0.0	0.0	5.2		0.0					
	0.0	1.0		0.0	0.0	J.Z		0.0					
Intersection Summary			10.0										
HCM 6th Ctrl Delay			19.9										
HCM 6th LOS			В										

	ၨ	\searrow	~	†	ļ	4
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	ሻ	7	*	↑	1	
Traffic Volume (veh/h)	69	203	442	393	308	270
Future Volume (veh/h)	69	203	442	393	308	270
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00	1.00	1.00	U	U	1.00
				1.00	1.00	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approac		1070	1070	No	No	1070
Adj Sat Flow, veh/h/ln		1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	78	228	497	442	346	303
Peak Hour Factor	0.89	0.89	0.89	0.89	0.89	0.89
Percent Heavy Veh, %	2	2	2	2	2	2
Cap, veh/h	250	222	530	1396	361	316
Arrive On Green	0.14	0.14	0.30	0.75	0.39	0.39
Sat Flow, veh/h	1781	1585	1781	1870	920	806
Grp Volume(v), veh/h	78	228	497	442	0	649
Grp Sat Flow(s), veh/h/l		1585	1781	1870	0	1725
Q Serve(g_s), s	4.5	16.1	31.2	9.0	0.0	42.0
Cycle Q Clear(g_c), s	4.5	16.1	31.2	9.0	0.0	42.0
Prop In Lane	1.00	1.00	1.00			0.47
Lane Grp Cap(c), veh/h	250	222	530	1396	0	677
V/C Ratio(X)	0.31	1.03	0.94	0.32	0.00	0.96
Avail Cap(c_a), veh/h	250	222	582	1482	0	705
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00
		49.3	39.3		0.00	34.0
Uniform Delay (d), s/ve				4.8		
Incr Delay (d2), s/veh	0.7	67.0	22.1	0.1	0.0	23.8
Initial Q Delay(d3),s/vel		0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),ve		4.1	16.7	3.0	0.0	21.6
Unsig. Movement Delay	y, s/veł	1				
LnGrp Delay(d),s/veh	45.0	116.3	61.4	5.0	0.0	57.7
LnGrp LOS	D	F	Ε	Α	Α	Ε
Approach Vol, veh/h	306	•	_	939	649	_
• • •				34.8	57.7	
Approach LOS						
Approach LOS	F			С	Е	
Timer - Assigned Phs		2		4	5	6
Phs Duration (G+Y+Rc)), s	92.1		22.6	40.6	51.5
Change Period (Y+Rc),		6.5		6.5	6.5	6.5
Max Green Setting (Gm		90.9		16.1	37.5	46.9
Max Q Clear Time (q_c				18.1	33.2	44.0
.0_		2.0		0.0		
Green Ext Time (p_c),	5	2.0		0.0	0.9	1.0
Intersection Summary						
HCM 6th Ctrl Delay			52.9			
HCM 6th LOS			D			
5 2.55			D			

Intersection						
Int Delay, s/veh	30.3					
		MDD	NDT	NDD	CDI	CDT
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	¥		Þ			4
Traffic Vol, veh/h	53	296	497	1	125	386
Future Vol, veh/h	53	296	497	1	125	386
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage		_	0	-	-	0
Grade, %	0	_	0	_	_	0
Peak Hour Factor	86	86	86	86	86	86
Heavy Vehicles, %	2	2	2	2	2	2
Mymt Flow	62	344	578	1	145	449
IVIVIIIL FIUW	02	344	3/8		143	449
Major/Minor	Minor1	N	/lajor1	N	Major2	
Conflicting Flow All	1318	579	0	0	579	0
Stage 1	579	3/7	-	-	3/7	-
Stage 1 Stage 2	739	-			-	
			-	-		-
Critical Hdwy	6.42	6.22	-	-	4.12	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518		-	-	2.218	-
Pot Cap-1 Maneuver	173	515	-	-	995	-
Stage 1	560	-	-	-	-	-
Stage 2	472	-	-	-	-	-
Platoon blocked, %			_	-		-
Mov Cap-1 Maneuver	139	515	_	_	995	_
Mov Cap 1 Maneuver	139	-	_	_	- , , ,	_
Stage 1	560	_	_		_	_
	380			-		
Stage 2	380	-	-	-	-	-
Approach	WB		NB		SB	
HCM Control Delay, s			0		2.3	
HCM LOS	114.0 F		U		2.3	
HOW LUS	Г					
Minor Lane/Major Mvr	nt	NBT	NBRV	VBLn1	SBL	SBT
Capacity (veh/h)				365	995	
HCM Lane V/C Ratio				1.112		_
	١	-		114.6	9.2	0
HCM Long LOS)	-				
HCM Lane LOS	. \	-	-	F	A	Α
HCM 95th %tile Q(veh	1)	-	-	15.1	0.5	-

Intersection												
Int Delay, s/veh	53.5											
		EDT	EDD	MDI	MDT	WDD	NIDI	NDT	NDD	CDI	CDT	CDD
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			4			Þ		212	र्स	
Traffic Vol, veh/h	0	0	0	108	0	381	0	16	8	369	17	1
Future Vol, veh/h	0	0	0	108	0	381	0	16	8	369	17	1
Conflicting Peds, #/hr		0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storag	e,# -	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	84	84	84	84	84	84	84	84	84	84	84	84
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	0	0	0	129	0	454	0	19	10	439	20	1
Major/Minor	Minor2			Minor1		Λ	/lajor1		_	Major2		
Conflicting Flow All	1150	928	21	923	923	24		0	0	29	0	0
Stage 1	899	899	-	24	24	-		-		Z7 -	-	۔
Stage 2	251	29	-	899	899		_				_	_
Critical Hdwy	7.12	6.52	6.22	7.12	6.52	6.22				4.12	_	
Critical Hdwy Stg 1	6.12	5.52	0.22	6.12	5.52	0.22	-			4.12	_	
Critical Hdwy Stg 2	6.12	5.52	-	6.12	5.52	-	-	-	-	-	_	
Follow-up Hdwy	3.518	4.018			4.018	3.318	_	-		2.218	_	-
Pot Cap-1 Maneuver	175	268	1056	250	270	1052	0	-	-	1584	-	-
Stage 1	334	358	1030	994	875	1032	0			1304	-	-
Stage 2	753	871	-	334	358	-	0	-	-	-	-	<u>-</u>
Platoon blocked, %	153	0/1	-	334	330	-	U	-	-	-	-	-
Mov Cap-1 Maneuver	78	193	1056	196	194	1052		-	-	1584	-	-
Mov Cap-1 Maneuver		193	1000	196	194	1002	-	-	-	1004	-	-
Stage 1	334	257	-	994	875	-	-	-	-	-	-	-
Stage 2	428	871	-	240	257	-	-	-	-	-	-	-
Staye 2	420	0/1	-	240	237	-	-	-	-	-	-	-
Approach	EB			WB			NB			SB		
HCM Control Delay, s	0			92.3			0			7.8		
HCM LOS	Α			F								
Minor Lane/Major Mvr	nt	NBT	NBR	EBLn1V	VBLn1	SBL	SBT	SBR				
Capacity (veh/h)					535	1584						
HCM Lane V/C Ratio		-	-		1.088		-	_				
HCM Control Delay (s	1		-	0	92.3	8.1	0	-				
HCM Lane LOS	7	-	-	A	92.3 F	Α	A	-				
HCM 95th %tile Q(vel	n)	-	-	А	18	1.1	А	_				
HOW FOUT WITHE CLASS	IJ				ΙŎ	1.1	-	-				

1: International Pkwy & I-205 WB On-Ramp

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations					र्स	77	7	^			^ ^	7
Traffic Volume (veh/h)	0	0	0	423	4	301	34	449	0	0	530	34
Future Volume (veh/h)	0	0	0	423	4	301	34	449	0	0	530	34
Initial Q (Qb), veh				0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)				1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach					No			No			No	
Adj Sat Flow, veh/h/ln				1678	1678	1678	1678	1678	0	0	1678	1678
Adj Flow Rate, veh/h				460	4	327	37	488	0	0	576	0
Peak Hour Factor				0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %				15	15	15	15	15	0	0	15	15
Cap, veh/h				558	5	882	104	1330	0	0	1172	
Arrive On Green				0.38	0.35	0.35	0.07	0.42	0.00	0.00	0.26	0.00
Sat Flow, veh/h				1585	14	2502	1598	3272	0	0	4731	1422
Grp Volume(v), veh/h				464	0	327	37	488	0	0	576	0
Grp Sat Flow(s), veh/h/ln				1598	0	1251	1598	1594	0	0	1527	1422
Q Serve(g_s), s				12.3	0.0	4.6	1.0	4.9	0.0	0.0	5.0	0.0
Cycle Q Clear(g_c), s				12.3	0.0	4.6	1.0	4.9	0.0	0.0	5.0	0.0
Prop In Lane				0.99	0.0	1.00	1.00		0.00	0.00	0.0	1.00
Lane Grp Cap(c), veh/h				563	0	882	104	1330	0	0	1172	1.00
V/C Ratio(X)				0.82	0.00	0.37	0.35	0.37	0.00	0.00	0.49	
Avail Cap(c_a), veh/h				849	0	1330	563	3013	0	0	2277	
HCM Platoon Ratio				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)				1.00	0.00	1.00	1.00	1.00	0.00	0.00	1.00	0.00
Uniform Delay (d), s/veh				13.3	0.0	11.3	21.0	9.4	0.0	0.0	14.8	0.0
Incr Delay (d2), s/veh				3.1	0.0	0.2	0.8	0.1	0.0	0.0	0.1	0.0
Initial Q Delay(d3),s/veh				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln				3.9	0.0	1.1	0.4	1.4	0.0	0.0	1.5	0.0
Unsig. Movement Delay, s/veh				0.7	0.0		0.1		0.0	0.0	1.0	0.0
LnGrp Delay(d),s/veh				16.4	0.0	11.5	21.7	9.5	0.0	0.0	15.0	0.0
LnGrp LOS				В	Α	В	C	Α	Α	Α	В	0.0
Approach Vol, veh/h					791			525			576	A
Approach Delay, s/veh					14.3			10.3			15.0	٨
Approach LOS					14.3 B			10.3 B			15.0 B	
Approach LO3					Б			Ь			Ь	
Timer - Assigned Phs		2			5	6		8				
Phs Duration (G+Y+Rc), s		25.3			7.6	17.7		21.6				
Change Period (Y+Rc), s		5.7			4.5	5.7		5.1				
Max Green Setting (Gmax), s		44.3			16.5	23.3		24.9				
Max Q Clear Time (g_c+I1), s		6.9			3.0	7.0		14.3				
Green Ext Time (p_c), s		1.4			0.0	1.6		2.2				
Intersection Summary												
HCM 6th Ctrl Delay			13.4									
HCM 6th LOS			В									
Notes												

Unsignalized Delay for [SBR] is excluded from calculations of the approach delay and intersection delay.

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Movement EE	L EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	ኘ ብ	7					^	7		^		
Traffic Volume (veh/h) 11			0	0	0	0	370	844	0	675	0	
Future Volume (veh/h) 11		54	0	0	0	0	370	844	0	675	0	
Initial Q (Qb), veh	0 0	0				0	0	0	0	0	0	
Ped-Bike Adj(A_pbT) 1.0	0	1.00				1.00		1.00	1.00		1.00	
Parking Bus, Adj 1.0	0 1.00	1.00				1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approach	No						No			No		
Adj Sat Flow, veh/h/ln 167	8 1678	1678				0	1678	1678	0	1678	0	
Adj Flow Rate, veh/h 12	.5 0	60				0	411	938	0	750	0	
Peak Hour Factor 0.9	0.90	0.90				0.90	0.90	0.90	0.90	0.90	0.90	
Percent Heavy Veh, %	5 15	15				0	15	15	0	15	0	
Cap, veh/h 36	5 0	162				0	2316	1033	0	2316	0	
Arrive On Green 0.1	1 0.00	0.11				0.00	0.73	0.73	0.00	0.73	0.00	
Sat Flow, veh/h 319	6 0	1422				0	3272	1422	0	3355	0	
Grp Volume(v), veh/h 12	5 0	60				0	411	938	0	750	0	
Grp Sat Flow(s), veh/h/ln159	8 0	1422				0	1594	1422	0	1594	0	
Q Serve(g_s), s 2		2.6				0.0	2.7	36.0	0.0	5.7	0.0	
Cycle Q Clear(g_c), s 2	4 0.0	2.6				0.0	2.7	36.0	0.0	5.7	0.0	
Prop In Lane 1.0	0	1.00				0.00		1.00	0.00		0.00	
Lane Grp Cap(c), veh/h 36	5 0	162				0	2316	1033	0	2316	0	
V/C Ratio(X) 0.3	4 0.00	0.37				0.00	0.18	0.91	0.00	0.32	0.00	
Avail Cap(c_a), veh/h 93	7 0	417				0	2316	1033	0	2316	0	
HCM Platoon Ratio 1.0	0 1.00	1.00				1.00	1.00	1.00	1.00	1.00	1.00	
Upstream Filter(I) 1.0	0.00	1.00				0.00	1.00	1.00	0.00	1.00	0.00	
Uniform Delay (d), s/veh27	7 0.0	27.8				0.0	2.9	7.5	0.0	3.3	0.0	
Incr Delay (d2), s/veh 0		0.5				0.0	0.2	13.1	0.0	0.4	0.0	
Initial Q Delay(d3),s/veh 0	0.0					0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%), veh/ln0		0.9				0.0	0.6	10.0	0.0	1.2	0.0	
Unsig. Movement Delay, s/	veh											
LnGrp Delay(d),s/veh 27	9 0.0	28.3				0.0	3.1	20.5	0.0	3.7	0.0	
	C A	С				A	A	С	A	A	A	
Approach Vol, veh/h	185						1349			750		
Approach Delay, s/veh	28.0						15.2			3.7		
Approach LOS	С						В			Α		
Timer - Assigned Phs	2		4		6							
Phs Duration (G+Y+Rc), s	55.0		12.9		55.0							
Change Period (Y+Rc), s	5.7		5.1		5.7							
Max Green Setting (Gmax)			19.9		49.3							
Max Q Clear Time (g_c+I1)	, s 38.0		4.6		7.7							
Green Ext Time (p_c), s	4.0		0.1		2.3							
Intersection Summary		42.5										
HCM 6th Ctrl Delay		12.5										
HCM 6th LOS		В										
Notes												

User approved volume balancing among the lanes for turning movement.

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Movement E	BL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	ķ	^	7	44	+	7	7	^	7	44	^	7	
Traffic Volume (veh/h)	45	43	77	624	36	275	121	834	508	213	979	23	
Future Volume (veh/h)	45	43	77	624	36	275	121	834	508	213	979	23	
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0	
Ped-Bike Adj(A_pbT) 1.	.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00	
Parking Bus, Adj 1.	.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approach		No			No			No			No		
Adj Sat Flow, veh/h/ln 10	060	1589	1324	1060	1589	1324	1060	1589	1324	1060	1589	1324	
Adj Flow Rate, veh/h	51	48	87	701	40	309	136	937	571	239	1100	26	
Peak Hour Factor 0.	.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	
	15	15	15	15	15	15	15	15	15	15	15	15	
	64	275	102	526	470	332	136	953	354	267	960	357	
	.06	0.09	0.09	0.27	0.30	0.30	0.13	0.32	0.32	0.14	0.32	0.32	
		3020	1122	1958	1589	1122	1009	3020	1122	1958	3020	1122	
	51	48	87	701	40	309	136	937	571	239	1100	26	
Grp Sat Flow(s), veh/h/ln10		1510	1122	979	1589	1122	1009	1510	1122	979	1510	1122	
	7.4	2.2	11.4	40.0	2.7	39.8	20.0	45.8	47.0	17.9	47.3	2.4	
	7.4	2.2	11.4	40.0	2.7	39.8	20.0	45.8	47.0	17.9	47.3	2.4	
3 (0)	.00		1.00	1.00	=,,	1.00	1.00	1010	1.00	1.00	17.10	1.00	
	64	275	102	526	470	332	136	953	354	267	960	357	
	.79	0.17	0.85	1.33	0.09	0.93	1.00	0.98	1.61	0.89	1.15	0.07	
` ,	36	406	151	526	502	354	136	953	354	329	960	357	
	.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
	.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Uniform Delay (d), s/veh68		62.5	66.7	54.4	37.9	50.9	64.4	50.6	50.9	63.2	50.8	35.5	
	9.2	0.3	24.7	162.4	0.1	29.7	78.2	24.9	288.0	22.2	78.0	0.1	
Initial Q Delay(d3),s/veh		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%), veh/lg		0.9	3.9	21.5	1.1	13.6	8.1	20.6	41.1	5.3	28.2	0.7	
Unsig. Movement Delay, s			3.7	21.0	- 1.1	10.0	3.1	20.0		3.0	20.2	5.7	
	7.9	62.8	91.4	216.9	37.9	80.6	142.6	75.5	339.0	85.4	128.8	35.5	
LnGrp LOS	,., F	62.0 E	71.4 F	F	D	F	F	73.5 E	557.0 F	65.4 F	120.0 F	D	
Approach Vol, veh/h	_	186	<u>'</u>	<u>'</u>	1050	<u>'</u>	<u> </u>	1644	<u> </u>	<u>'</u>	1365	<u> </u>	
Approach Delay, s/veh		83.1			170.0			172.6			119.4		
Approach LOS		63.1 F			170.0			172.0			F		
					_								
Timer - Assigned Phs	1	2	3	4	5	6	7	8					
Phs Duration (G+Y+Rc), 35		54.0	47.0	20.6	27.0	54.3	16.5	51.1					
Change Period (Y+Rc), s		7.0	7.0	7.0	7.0	7.0	7.0	7.0					
Max Green Setting (Gmax		47.0	40.0	20.0	20.0	47.0	20.0	47.0					
Max Q Clear Time (g_c+11		49.0	42.0	13.4	22.0	49.3	9.4	41.8					
Green Ext Time (p_c), s (0.5	0.0	0.0	0.2	0.0	0.0	0.1	0.7					
Intersection Summary													
HCM 6th Ctrl Delay			150.9										

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations					4	1		4				1	
Traffic Volume (veh/h)	0	0	0	5	0	442	10	1030	0	0	1295	396	
Future Volume (veh/h)	0	0	0	5	0	442	10	1030	0	0	1295	396	
Initial Q (Qb), veh				0	0	0	0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)				1.00		1.00	1.00		1.00	1.00		1.00	
Parking Bus, Adj				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approacl	h				No			No			No		
Adj Sat Flow, veh/h/ln				1678	1678	1678	1678	1678	0	0	1678	1678	
Adj Flow Rate, veh/h				5	0	0	11	1084	0	0	1363	417	
Peak Hour Factor				0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	
Percent Heavy Veh, %				15	15	15	15	15	0	0	15	15	
Cap, veh/h				12	0		10	975	0	0	515	437	
Arrive On Green				0.01	0.00	0.00	0.59	0.59	0.00	0.00	0.31	0.31	
Sat Flow, veh/h				1598	0	1422	17	1660	0	0	1678	1422	
Grp Volume(v), veh/h				5	0	0	1095	0	0	0	1363	417	_
Grp Sat Flow(s), veh/h/lr	1			1598	0	1422	1677	0	0	0	1678	1422	
2 Serve(g_s), s	•			0.5	0.0	0.0	99.8	0.0	0.0	0.0	52.2	48.9	
Cycle Q Clear(g_c), s				0.5	0.0	0.0	99.8	0.0	0.0	0.0	52.2	48.9	
Prop In Lane				1.00	0.0	1.00	0.01	0.0	0.00	0.00	02.2	1.00	
Lane Grp Cap(c), veh/h				12	0	1.00	985	0	0.00	0	515	437	
I/C Ratio(X)				0.42	0.00		1.11	0.00	0.00	0.00	2.65	0.96	
Avail Cap(c_a), veh/h				131	0		985	0	0.00	0	515	437	
HCM Platoon Ratio				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Jpstream Filter(I)				1.00	0.00	0.00	0.09	0.00	0.00	0.00	1.00	1.00	
Uniform Delay (d), s/veh	1			84.0	0.0	0.0	35.1	0.0	0.0	0.0	58.9	57.8	
ncr Delay (d2), s/veh	•			22.0	0.0	0.0	51.9	0.0	0.0	0.0	746.2	32.8	
nitial Q Delay(d3),s/veh	1			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),veh				0.3	0.0	0.0	53.8	0.0	0.0	0.0	128.9	21.6	
Jnsig. Movement Delay		h		0.0	0.0	0.0	00.0	0.0	0.0	0.0	120.7	21.0	
LnGrp Delay(d),s/veh	, 5, 401			106.0	0.0	0.0	87.0	0.0	0.0	0.0	805.1	90.6	
LnGrp LOS				F	A	3.0	67.6 F	A	A	Α	F	70.0 F	
Approach Vol, veh/h					5	A		1095	,,	, ,	1780	<u>'</u>	
Approach Delay, s/veh					106.0			87.0			637.7		
Approach LOS					100.0 F			67.0 F			037.7		
					1			•					
Timer - Assigned Phs		2				6		8					
Phs Duration (G+Y+Rc)		105.6				58.0		6.4					
Change Period (Y+Rc),		5.8				5.8		5.1					
Max Green Setting (Gm	, ,					52.2		13.9					
Max Q Clear Time (g_c-		101.8				54.2		2.5					
Green Ext Time (p_c), s	i	0.0				0.0		0.0					
Intersection Summary													
HCM 6th Ctrl Delay			427.4										
HCM 6th LOS			F										
Notes													

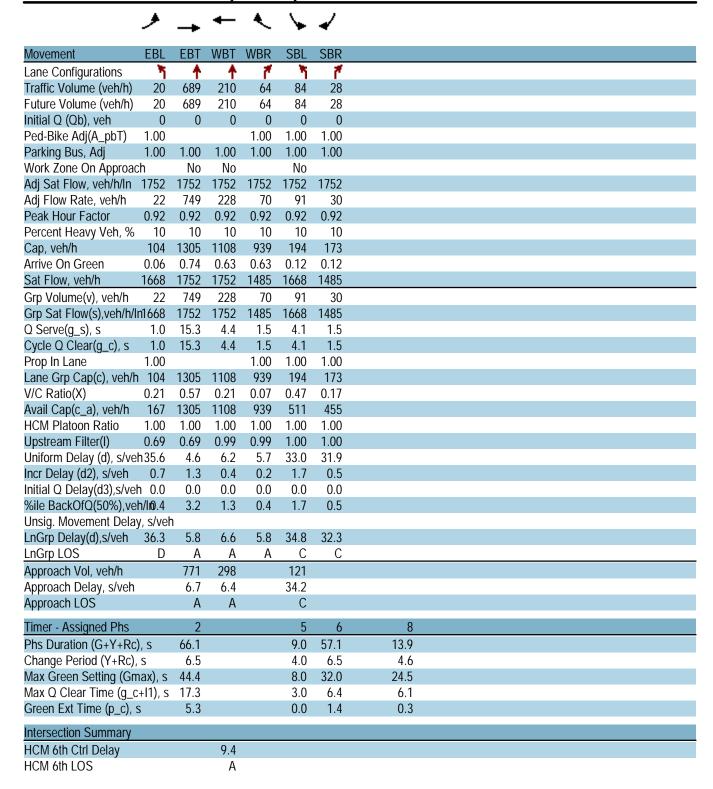
Unsignalized Delay for [WBR] is excluded from calculations of the approach delay and intersection delay.

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations		4	7						1		4		
Traffic Volume (veh/h)	188	4	66	0	0	0	0	859	433	1237	55	0	
Future Volume (veh/h)	188	4	66	0	0	0	0	859	433	1237	55	0	
Initial Q (Qb), veh	0	0	0		, ,		0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)	1.00		1.00				1.00		1.00	1.00	· ·	1.00	
Parking Bus, Adj	1.00	1.00	1.00				1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approac		No						No			No		
Adj Sat Flow, veh/h/ln	1678	1678	1678				0	1678	1678	1678	1678	0	
Adj Flow Rate, veh/h	200	4	0				0	914	461	1316	59	0	
Peak Hour Factor	0.94	0.94	0.94				0.94	0.94	0.94	0.94	0.94	0.94	
Percent Heavy Veh, %	15	15	15				0	15	15	15	15	0	
Cap, veh/h	221	4					0	712	603	516	23	0	
Arrive On Green	0.14	0.14	0.00				0.00	0.42	0.42	0.34	0.34	0.00	
Sat Flow, veh/h	1568	31	1422				0.00	1678	1422	1532	69	0.00	
Grp Volume(v), veh/h	204	0	0				0	914	461	1375	0	0	
Grp Sat Flow(s), veh/h/li		0	1422				0	1678	1422	1601	0	0	
Q Serve(g_s), s	21.3	0.0	0.0				0.0	72.1	47.0	57.2	0.0	0.0	
Cycle Q Clear(g_c), s	21.3	0.0	0.0				0.0	72.1	47.0	57.2	0.0	0.0	
Prop In Lane	0.98	0.0	1.00				0.00	12.1	1.00	0.96	0.0	0.00	
Lane Grp Cap(c), veh/h		0	1.00				0.00	712	603	539	0	0.00	
V/C Ratio(X)	0.90	0.00					0.00	1.28	0.76	2.55	0.00	0.00	
Avail Cap(c_a), veh/h	310	0.00					0.00	712	603	539	0.00	0.00	
HCM Platoon Ratio	1.00	1.00	1.00				1.00	1.00	1.00	1.00	1.00	1.00	
Upstream Filter(I)	1.00	0.00	0.00				0.00	1.00	1.00	0.09	0.00	0.00	
Uniform Delay (d), s/vel		0.0	0.0				0.0	48.9	41.7	56.4	0.0	0.0	
Incr Delay (d2), s/veh	24.0	0.0	0.0				0.0	138.4	8.9	699.1	0.0	0.0	
Initial Q Delay(d3),s/veh		0.0	0.0				0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),vel		0.0	0.0				0.0	57.4	18.1	127.7	0.0	0.0	
Unsig. Movement Delay			0.0				0.0	J7.7	10.1	127.7	0.0	0.0	
LnGrp Delay(d),s/veh	95.9	0.0	0.0				0.0	187.4	50.6	755.5	0.0	0.0	
LnGrp LOS	75.7 F	A	0.0				Α	F	D	7 5 5 . 5 F	Α	Α	
Approach Vol, veh/h	<u> </u>	204	A					1375		<u>'</u>	1375		
Approach Delay, s/veh		95.9	A					141.5			755.5		
Approach LOS		75.7 F						F			733.3 F		
								1					
Timer - Assigned Phs		2		4		6							
Phs Duration (G+Y+Rc)		77.9		29.1		63.0							
Change Period (Y+Rc),		5.8		5.1		5.8							
Max Green Setting (Gm		63.2		32.9		57.2							
Max Q Clear Time (g_c		74.1		23.3		59.2							
Green Ext Time (p_c), s	S	0.0		0.6		0.0							
Intersection Summary													
HCM 6th Ctrl Delay			424.1										
HCM 6th LOS			F										
Notes													

Unsignalized Delay for [EBR] is excluded from calculations of the approach delay and intersection delay.

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations		^	7	*	4	7	ሻ	ĵ.		*	†	7	
Traffic Volume (veh/h)	159	501	26	8	143	91	20	6	15	193	2	185	
Future Volume (veh/h)	159	501	26	8	143	91	20	6	15	193	2	185	
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approac		No			No			No			No		
	1678	1678	1678	1678	1678	1678	1678	1678	1678	1678	1678	1678	
Adj Flow Rate, veh/h	189	596	31	10	170	108	24	7	18	230	2	220	
Peak Hour Factor	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	
Percent Heavy Veh, %	15	15	15	15	15	15	15	15	15	15	15	15	
Cap, veh/h	224	663	562	36	465	394	74	51	131	265	406	344	
Arrive On Green	0.14	0.39	0.39	0.02	0.28	0.28	0.05	0.12	0.12	0.17	0.24	0.24	
Sat Flow, veh/h	1598	1678	1422	1598	1678	1422	1598	416	1069	1598	1678	1422	
Grp Volume(v), veh/h	189	596	31	10	170	108	24	0	25	230	2	220	
Grp Sat Flow(s), veh/h/li		1678	1422	1598	1678	1422	1598	0	1485	1598	1678	1422	
Q Serve(g_s), s	9.4	27.2	1.1	0.5	6.6	4.8	1.2	0.0	1.2	11.4	0.1	11.3	
Cycle Q Clear(g_c), s	9.4	27.2	1.1	0.5	6.6	4.8	1.2	0.0	1.2	11.4	0.1	11.3	
Prop In Lane	1.00	21.2	1.00	1.00	0.0	1.00	1.00	0.0	0.72	1.00	0.1	1.00	
Lane Grp Cap(c), veh/h		663	562	36	465	394	74	0	182	265	406	344	
V/C Ratio(X)	0.84	0.90	0.06	0.28	0.37	0.27	0.32	0.00	0.14	0.87	0.00	0.64	
Avail Cap(c_a), veh/h	294	824	698	294	824	698	294	0.00	273	294	406	344	
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	
Uniform Delay (d), s/vel		23.1	15.2	39.2	23.7	23.1	37.6	0.0	31.9	33.1	23.4	27.7	
Incr Delay (d2), s/veh	15.5	11.9	0.1	4.2	0.7	0.5	2.5	0.0	0.5	21.7	0.0	4.5	
Initial Q Delay(d3),s/vel		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%), vel		11.6	0.4	0.2	2.5	1.6	0.5	0.0	0.5	5.9	0.0	4.1	
Unsig. Movement Delay			0.7	0.2	2.0	1.0	0.0	0.0	0.0	0.7	0.0	7.1	
LnGrp Delay(d),s/veh	49.6	35.0	15.3	43.4	24.4	23.6	40.1	0.0	32.4	54.8	23.5	32.2	
LnGrp LOS	T7.0	D	В	D	C	23.0 C	D	A	C	D	C	C	
Approach Vol, veh/h		816			288			49			452		
Approach Delay, s/veh		37.6			24.7			36.2			43.7		
Approach LOS		D			C C			D			43.7 D		
	1		2	4		,	7						
Timer - Assigned Phs	1	20.7	3	4	17.0	6	7	8					
Phs Duration (G+Y+Rc)		38.7	19.0	15.5	17.9	29.1	9.3	25.2					
Change Period (Y+Rc),		6.5	5.5	5.5	6.5	6.5	5.5	5.5					
Max Green Setting (Gm		40.0	15.0	15.0	15.0	40.0	15.0	15.0					
Max Q Clear Time (g_c		29.2	13.4	3.2	11.4	8.6	3.2	13.3					
Green Ext Time (p_c), s	5 0.0	3.0	0.1	0.0	0.2	1.7	0.0	0.2					
Intersection Summary													
HCM 6th Ctrl Delay			37.0										
HCM 6th LOS			D										
Notes													

User approved pedestrian interval to be less than phase max green.
User approved volume balancing among the lanes for turning movement.



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Movement EB	_ EE	BT EB	R WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	ነ	آ	ሻ	₽			4			4		
Traffic Volume (veh/h) 1)9	1 4	257	25	2	0	1	14	0	1	
Future Volume (veh/h) 1	5 70)9	1 4	257	25	2	0	1	14	0	1	
Initial Q (Qb), veh)	0	0 0	0	0	0	0	0	0	0	0	
Ped-Bike Adj(A_pbT) 1.0)	1.0	00 1.00		1.00	1.00		1.00	1.00		1.00	
Parking Bus, Adj 1.0) 1.0	00 1.0	00 1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approach	1	lo		No			No			No		
Adj Sat Flow, veh/h/ln 175	2 18	70 17!	52 1752	1870	1752	1752	1752	1752	1752	1752	1752	
Adj Flow Rate, veh/h 1	9 8	54	1 5	310	30	2	0	1	17	0	1	
Peak Hour Factor 0.8	3 0.8	33 0.8	33 0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	
Percent Heavy Veh, % 1)	2	10 10	2	10	10	10	10	10	10	10	
Cap, veh/h 3	2 9	92	1 9	869	84	4	0	2	28	0	2	
Arrive On Green 0.0	2 0.	3.0	53 0.01	0.52	0.52	0.00	0.00	0.00	0.02	0.00	0.02	
Sat Flow, veh/h 166	3 18	68	2 1668	1679	162	1068	0	534	1565	0	92	
Grp Volume(v), veh/h 1	9	0 8!	55 5	0	340	3	0	0	18	0	0	
Grp Sat Flow(s), veh/h/ln166	3	0 18	70 1668	0	1841	1602	0	0	1657	0	0	
Q Serve(g_s), s 0.	5 C	.0 16	.1 0.1	0.0	4.4	0.1	0.0	0.0	0.4	0.0	0.0	
Cycle Q Clear(g_c), s 0.	5 0	.0 16	.1 0.1	0.0	4.4	0.1	0.0	0.0	0.4	0.0	0.0	
Prop In Lane 1.0)	0.0	00 1.00		0.09	0.67		0.33	0.94		0.06	
Lane Grp Cap(c), veh/h 3	2	0 99	93 9	0	953	5	0	0	30	0	0	
V/C Ratio(X) 0.6	0.0	0.0	36 0.55	0.00	0.36	0.57	0.00	0.00	0.60	0.00	0.00	
Avail Cap(c_a), veh/h 16	1	0 13	78 164	0	1356	157	0	0	163	0	0	
HCM Platoon Ratio 1.0) 1.0	00 1.0	00 1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Upstream Filter(I) 1.0	0.0	00 1.0	00 1.00	0.00	1.00	1.00	0.00	0.00	1.00	0.00	0.00	
Uniform Delay (d), s/veh19.	3 0	.0 8	.2 20.2	0.0	5.8	20.3	0.0	0.0	19.8	0.0	0.0	
Incr Delay (d2), s/veh 16.	3 0	.0 4	.2 44.1	0.0	0.2	71.9	0.0	0.0	17.7	0.0	0.0	
Initial Q Delay(d3),s/veh 0.) (.0 0	.0 0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%), veh/ln0.	3 0	.0 5	.0 0.2	0.0	1.1	0.1	0.0	0.0	0.3	0.0	0.0	
Unsig. Movement Delay, s/v	eh											
LnGrp Delay(d),s/veh 36.	6 0	.0 12	.5 64.3	0.0	6.0	92.2	0.0	0.0	37.6	0.0	0.0	
LnGrp LOS I)	Α	B E	Α	Α	F	Α	Α	D	Α	Α	
Approach Vol, veh/h	8	74		345			3			18		
Approach Delay, s/veh	13			6.9			92.2			37.6		
Approach LOS		В		А			F			D		
Timer - Assigned Phs	1	2	4	5	6		8					
Phs Duration (G+Y+Rc), s4.	2 27	.6	4.1	4.8	27.1		4.7					
Change Period (Y+Rc), s 4.		.0	4.0	4.0	6.0		4.0					
Max Green Setting (Gmax),		.0	4.0	4.0	30.0		4.0					
Max Q Clear Time (q_c+11),			2.1	2.5	6.4		2.4					
Green Ext Time (p_c), s 0.		.6	0.0	0.0	1.4		0.0					
Intersection Summary												
HCM 6th Ctrl Delay		11	.9									
HCM 6th LOS			В									
HOW OUT LOS			J									

	•	\searrow	•	†	ţ	4
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	ሻ	7	ኘ	†	1	
Traffic Volume (veh/h)	199	520	227	172	199	59
Future Volume (veh/h)	199	520	227	172	199	59
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00	1.00	1.00			1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach				No	No	
	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	219	571	249	189	219	65
Peak Hour Factor	0.91	0.91	0.91	0.91	0.91	0.91
Percent Heavy Veh, %	2	2	2	2	2	2
Cap, veh/h	689	613	301	830	263	78
Arrive On Green	0.39		0.17	0.44	0.19	
		0.39				0.19
	1781	1585	1781	1870	1385	411
Grp Volume(v), veh/h	219	571	249	189	0	284
Grp Sat Flow(s), veh/h/ln		1585	1781	1870	0	1796
Q Serve(g_s), s	6.6	26.5	10.4	4.8	0.0	11.7
Cycle Q Clear(g_c), s	6.6	26.5	10.4	4.8	0.0	11.7
Prop In Lane	1.00	1.00	1.00			0.23
Lane Grp Cap(c), veh/h	689	613	301	830	0	341
V/C Ratio(X)	0.32	0.93	0.83	0.23	0.00	0.83
Avail Cap(c_a), veh/h	731	650	522	1352	0	620
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh		22.5	30.8	13.2	0.0	29.9
Incr Delay (d2), s/veh	0.3	19.6	5.7	0.1	0.0	5.3
Initial Q Delay(d3),s/veh		0.0	0.0	0.0	0.0	0.0
			4.8			
%ile BackOfQ(50%),veh		23.0	4.δ	1.9	0.0	5.4
Unsig. Movement Delay			2//	10.4	0.0	25.2
1 3.7	16.7	42.2	36.6	13.4	0.0	35.2
LnGrp LOS	В	D	D	В	A	<u>D</u>
Approach Vol, veh/h	790			438	284	
Approach Delay, s/veh	35.1			26.5	35.2	
Approach LOS	D			С	D	
Timer - Assigned Phs		2		4	5	6
	S					
,						
Green Ext Time (p_c), s	5	0.7		1.2	0.7	0.9
Intersection Summary						
HCM 6th Ctrl Delay			32.6			
			С			
Timer - Assigned Phs Phs Duration (G+Y+Rc), Change Period (Y+Rc), Max Green Setting (Gm. Max Q Clear Time (g_c+ Green Ext Time (p_c), s Intersection Summary	, s s ax), s +I1), s	2 40.6 6.5 55.5 6.8 0.7		36.2 6.5 31.5 28.5 1.2	5 19.5 6.5 22.5 12.4 0.7	6 21.1 6.5 26.5 13.7 0.9

Intersection						
Int Delay, s/veh	3.9					
		WDD	NDT	NDD	CDI	CDT
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	¥	75	\$	0	005	4
Traffic Vol, veh/h	26	75	301	0	225	497
Future Vol, veh/h	26	75	301	0	225	497
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage	e, # 0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	90	90	90	90	90	90
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	29	83	334	0	250	552
				_		
	Minor1		/lajor1		Major2	
Conflicting Flow All	1386	334	0	0	334	0
Stage 1	334	-	-	-	-	-
Stage 2	1052	-	-	-	-	-
Critical Hdwy	6.42	6.22	-	-	4.12	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	_	-	2.218	-
Pot Cap-1 Maneuver	158	708	_	-	1225	-
Stage 1	725	-	_	-	-	_
Stage 2	336	_	-	_	_	_
Platoon blocked, %	330			_		
Mov Cap-1 Maneuver	112	708			1225	
•	112	700	-	-	1223	-
Mov Cap-2 Maneuver			-	-	-	
Stage 1	725	-	-	-	-	-
Stage 2	237	-	-	-	-	-
Approach	WB		NB		SB	
HCM Control Delay, s	24.1		0		2.7	
HCM LOS	C		U		2.7	
HOW EOS						
Minor Lane/Major Mvn	nt	NBT	NBRV	VBLn1	SBL	SBT
Capacity (veh/h)		-	-	299	1225	-
HCM Lane V/C Ratio		-	-	0.375		-
HCM Control Delay (s))	-	-		8.7	0
HCM Lane LOS				С	A	Ā
HCM 95th %tile Q(veh	1)	_	-		0.8	-
HOW JOHN JOHNE Q(VEI	'/	_		1.7	0.0	_

Intersection												
Int Delay, s/veh	14											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	LDL	4	LDIN	VVDL	4	VVDIX	INDL	1	אטוו	JUL	<u> અને</u>	JUIN
Traffic Vol, veh/h	0	0	0	48	0	229	0	19	24	480	24	0
Future Vol, veh/h	0	0	0	48	0	229	0	19	24	480	24	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage	2,# -	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	89	89	89	89	89	89	89	89	89	89	89	89
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	0	0	0	54	0	257	0	21	27	539	27	0
Major/Minor I	Minor2			Minor1		N	Major1		1	Major2		
Conflicting Flow All	1268	1153	27	1140	1140	35	-	0	0	48	0	0
Stage 1	1105	1105	-	35	35	-	_	-	-		-	-
Stage 2	163	48	-	1105	1105	-	-	-	-	-	-	-
Critical Hdwy	7.12	6.52	6.22	7.12	6.52	6.22	-	-	-	4.12	-	-
Critical Hdwy Stg 1	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-
Follow-up Hdwy	3.518	4.018	3.318	3.518	4.018	3.318	-	-	-	2.218	-	-
Pot Cap-1 Maneuver	145	197	1048	178	201	1038	0	-	-	1559	-	0
Stage 1	256	286	-	981	866	-	0	-	-	-	-	0
Stage 2	839	855	-	256	286	-	0	-	-	-	-	0
Platoon blocked, %								-	-		-	
Mov Cap-1 Maneuver	79	128	1048	129	130	1038	-	-	-	1559	-	-
Mov Cap-2 Maneuver	79	128	-	129	130	-	-	-	-	-	-	-
Stage 1	256	186	-	981	866	-	-	-	-	-	-	-
Stage 2	631	855	-	166	186	-	-	-	-	-	-	-
Approach	EB			WB			NB			SB		
HCM Control Delay, s	0			26.8			0			8.1		
HCM LOS	A			D								
Minor Lane/Major Mvm	nt	NBT	NRR	EBLn1V	VRI n1	SBL	SBT					
Capacity (veh/h)		יוטוי	HUIK		467	1559	- 100					
HCM Lane V/C Ratio		-	-	-	0.666		-					
HCM Control Delay (s)		-	-	0	26.8	8.5	0					
HCM Lane LOS			-	A	20.0 D	0.5 A	A					
HCM 95th %tile Q(veh)			-	4.8	1.6	-					
1.5W 7001 70010 Q(VCII	7				т.О	1.0						



D. Background Plus Project Conditions Synchro Outputs

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations					ર્ન	77	*	^			ተተተ	7
Traffic Volume (veh/h)	0	0	0	871	323	178	25	241	0	0	807	656
Future Volume (veh/h)	0	0	0	871	323	178	25	241	0	0	807	656
Initial Q (Qb), veh				0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)				1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach					No			No			No	
Adj Sat Flow, veh/h/ln				1678	1678	1678	1678	1678	0	0	1678	1678
Adj Flow Rate, veh/h				957	355	196	27	265	0	0	887	721
Peak Hour Factor				0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91
Percent Heavy Veh, %				15	15	15	15	15	0	0	15	15
Cap, veh/h				441	164	935	75	1480	0	0	1601	497
Arrive On Green				0.39	0.37	0.37	0.05	0.46	0.00	0.00	0.35	0.35
Sat Flow, veh/h				1181	438	2502	1598	3272	0	0	4731	1422
Grp Volume(v), veh/h				1312	0	196	27	265	0	0	887	721
Grp Sat Flow(s), veh/h/ln				1619	0	1251	1598	1594	0	0	1527	1422
Q Serve(g_s), s				24.9	0.0	3.5	1.1	3.2	0.0	0.0	10.4	23.3
Cycle Q Clear(g_c), s				24.9	0.0	3.5	1.1	3.2	0.0	0.0	10.4	23.3
Prop In Lane				0.73		1.00	1.00		0.00	0.00		1.00
Lane Grp Cap(c), veh/h				605	0	935	75	1480	0	0	1601	497
V/C Ratio(X)				2.17	0.00	0.21	0.36	0.18	0.00	0.00	0.55	1.45
Avail Cap(c_a), veh/h				605	0	935	396	2119	0	0	1601	497
HCM Platoon Ratio				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)				1.00	0.00	1.00	1.00	1.00	0.00	0.00	1.00	1.00
Uniform Delay (d), s/veh				20.5	0.0	14.2	30.8	10.4	0.0	0.0	17.5	21.7
Incr Delay (d2), s/veh				531.7	0.0	0.1	1.1	0.0	0.0	0.0	0.3	213.8
Initial Q Delay(d3),s/veh				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%), veh/ln				97.6	0.0	0.9	0.4	1.0	0.0	0.0	3.4	36.5
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh				552.2	0.0	14.3	31.8	10.4	0.0	0.0	17.7	235.5
LnGrp LOS				F	Α	В	С	В	А	А	В	F
Approach Vol, veh/h					1508			292			1608	
Approach Delay, s/veh					482.3			12.4			115.4	
Approach LOS					F			В			F	
Timer - Assigned Phs		2			5	6		8				
Phs Duration (G+Y+Rc), s		36.6			7.6	29.0		30.0				
Change Period (Y+Rc), s		5.7			4.5	5.7		5.1				
Max Green Setting (Gmax), s		44.3			16.5	23.3		24.9				
Max Q Clear Time (g_c+l1), s		5.2			3.1	25.3		26.9				
Green Ext Time (p_c), s		0.7			0.0	0.0		0.0				
Intersection Summary		0.7			0.0	0.0		0.0				
			240.0									
HCM 6th Ctrl Delay			268.9									
HCM 6th LOS			F									

	۶	→	•	•	←	•	•	†	/	>	ļ	✓	
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	ች	4	7					^	7		^		
Traffic Volume (veh/h)	48	0	91	0	0	0	0	221	376	0	1374	0	
Future Volume (veh/h)	48	0	91	0	0	0	0	221	376	0	1374	0	
Initial Q (Qb), veh	0	0	0		, ,		0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)	1.00	J	1.00				1.00		1.00	1.00		1.00	
Parking Bus, Adj	1.00	1.00	1.00				1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approac		No	1.00				1.00	No	1.00	1.00	No	1.00	
Adj Sat Flow, veh/h/ln	1678	1678	1678				0	1678	1678	0	1678	0	
Adj Flow Rate, veh/h	51	0	96				0	233	396	0	1446	0	
Peak Hour Factor	0.95	0.95	0.95				0.95	0.95	0.95	0.95	0.95	0.95	
Percent Heavy Veh, %	15	15	15				0.73	15	15	0.73	15	0.75	
Cap, veh/h	354	0	158				0	2325	1037	0	2325	0	
Arrive On Green	0.11	0.00	0.11				0.00	0.73	0.73	0.00	0.73	0.00	
Sat Flow, veh/h	3196	0.00	1422				0.00	3272	1422	0.00	3355	0.00	
Grp Volume(v), veh/h	51	0	96				0	233	396	0	1446	0	
Grp Sat Flow(s), veh/h/l		0	1422				0	1594	1422	0	1594	0	
Q Serve(g_s), s	1.0	0.0	4.4				0.0	1.4	7.1	0.0	15.2	0.0	
Cycle Q Clear(g_c), s	1.0	0.0	4.4				0.0	1.4	7.1	0.0	15.2	0.0	
Prop In Lane	1.00	0	1.00				0.00	0005	1.00	0.00	0005	0.00	
Lane Grp Cap(c), veh/h		0	158				0	2325	1037	0	2325	0	
V/C Ratio(X)	0.14	0.00	0.61				0.00	0.10	0.38	0.00	0.62	0.00	
Avail Cap(c_a), veh/h	941	0	419				0	2325	1037	0	2325	0	
HCM Platoon Ratio	1.00	1.00	1.00				1.00	1.00	1.00	1.00	1.00	1.00	
Upstream Filter(I)	1.00	0.00	1.00				0.00	1.00	1.00	0.00	1.00	0.00	
Uniform Delay (d), s/ve		0.0	28.7				0.0	2.7	3.4	0.0	4.5	0.0	
Incr Delay (d2), s/veh	0.1	0.0	1.4				0.0	0.1	1.1	0.0	1.3	0.0	
Initial Q Delay(d3),s/ve		0.0	0.0				0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),ve		0.0	1.5				0.0	0.3	1.5	0.0	3.3	0.0	
Unsig. Movement Delag	y, s/veł												
LnGrp Delay(d),s/veh	27.2	0.0	30.1				0.0	2.8	4.5	0.0	5.8	0.0	
LnGrp LOS	С	Α	С				Α	Α	Α	Α	Α	Α	
Approach Vol, veh/h		147						629			1446		
Approach Delay, s/veh		29.1						3.9			5.8		
Approach LOS		С						Α			Α		
Timer - Assigned Phs		2		4		6							
Phs Duration (G+Y+Rc), s	55.0		12.6		55.0							
Change Period (Y+Rc),		5.7		5.1		5.7							
Max Green Setting (Gm		49.3		19.9		49.3							
Max Q Clear Time (g_c		9.1		6.4		17.2							
Green Ext Time (p_c),		1.8		0.1		5.5							
Intersection Summary													
HCM 6th Ctrl Delay			6.8										
HCM 6th LOS			Α										
Notes													

User approved volume balancing among the lanes for turning movement.

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Movement E	BL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	ķ	^	7	44	↑	7	7	^	7	14	^	7	
` ,	29	22	219	814	74	260	66	267	400	329	924	27	
. ,	29	22	219	814	74	260	66	267	400	329	924	27	
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0	
J: -i /	.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00	
5 • 7	.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approach		No	4/70	10/0	No	4/70	40/0	No	4/70	10/0	No	4 / 70	
•	060	1589	1678	1060	1589	1678	1060	1589	1678	1060	1589	1678	
	31	24	235	875	80	280	71	287	430	354	994	29	
	.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	
, ,	15	15	15	15	15	15	15	15	15	15	15	15	
Cap, veh/h	57	377	178	489	507	452	80	887	416	306	1120	527	
	.06	0.13	0.13	0.25	0.32	0.32	0.08	0.29	0.29	0.16	0.37	0.37	
	009	3020	1422	1958	1589	1419	1009	3020	1417	1958	3020	1422	
Grp Volume(v), veh/h	31	24	235	875	80	280	71	287	430	354	994	29	
Grp Sat Flow(s), veh/h/ln10		1510	1422	979	1589	1419	1009	1510	1417	979	1510	1422	
.0_ /	4.8	1.1	20.0	40.0	5.8	26.8	11.1	11.9	47.0	25.0	49.4	2.1	
3 (3- 7)	4.8	1.1	20.0	40.0	5.8	26.8	11.1	11.9	47.0	25.0	49.4	2.1	
	.00	077	1.00	1.00	F07	1.00	1.00	007	1.00	1.00	4400	1.00	
	57	377	178	489	507	452	80	887	416	306	1120	527	
` ,	.55	0.06	1.32	1.79	0.16	0.62	0.89	0.32	1.03	1.16	0.89	0.06	
1 \ - /	126	377	178	489	507	452	126	887	416	306	1120	527	
	.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
	.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Uniform Delay (d), s/veh7:	3.5 7.9	61.7	70.0	60.0	39.1	46.3	73.0 33.7	44.1	56.5	67.5	47.2 8.9	32.3	
J \ /'		0.1	178.7	362.7	0.1	2.6	0.0	0.2	52.8	101.1	0.0	0.0	
Initial Q Delay(d3),s/veh (%ile BackOfQ(50%),veh/lr		0.0	16.0	34.4	2.3	9.6	3.7	4.5	22.5	10.6	20.0	0.0	
Unsig. Movement Delay, s			10.0	34.4	2.3	9.0	3.1	4.3	22.3	10.0	20.0	0.7	
	1.4	61.8	248.7	422.7	39.2	48.8	106.7	44.3	109.3	168.6	56.1	32.4	
LnGrp LOS	F	01.0 E	Z40.7	422.7 F	J7.2	40.0 D	F	44.3 D	107.3 F	F	50.1 E	32.4 C	
Approach Vol, veh/h	<u> </u>	290	ı	ı	1235	U	ı	788	ı	<u> </u>	1377		
		215.4			313.1			85.4			84.5		
Approach Delay, s/veh Approach LOS		215.4 F			313.1			00.4 E			04.3 F		
Approach LOS		Г			Г			Г			Г		
Timer - Assigned Phs	1	2	3	4	5	6	7	8					
Phs Duration (G+Y+Rc), 33	2.0	54.0	47.0	27.0	19.7	66.3	16.0	58.0					
Change Period (Y+Rc), s	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0					
Max Green Setting (Gmax		47.0	40.0	20.0	20.0	47.0	20.0	47.0					
Max Q Clear Time (g_c+2)	•	49.0	42.0	22.0	13.1	51.4	6.8	28.8					
Green Ext Time (p_c), s	0.0	0.0	0.0	0.0	0.1	0.0	0.0	1.4					
Intersection Summary													
HCM 6th Ctrl Delay			171.5										
HCM 6th LOS			F										

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations					4	1		4			†	7
Traffic Volume (veh/h)	0	0	0	381	1	613	2	129	0	0		811
Future Volume (veh/h)	0	0	0	381	1	613	2	129	0	0	1172	811
Initial Q (Qb), veh				0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)				1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	1				No			No			No	
Adj Sat Flow, veh/h/ln				1678	1678	1678	1678	1678	0	0		1678
Adj Flow Rate, veh/h				410	1	0	2	139	0	0	1260	872
Peak Hour Factor				0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
Percent Heavy Veh, %				15	15	15	15	15	0	0	15	15
Cap, veh/h				687	2		2	164	0	0	624	529
Arrive On Green				0.43	0.43	0.00	0.10	0.10	0.00	0.00	0.37	0.37
Sat Flow, veh/h				1594	4	1422	24	1653	0	0	1678	1422
Grp Volume(v), veh/h				411	0	0	141	0	0	0	1260	872
Grp Sat Flow(s), veh/h/ln				1598	0	1422	1677	0	0	0	1678	1422
Q Serve(g_s), s				33.5	0.0	0.0	14.1	0.0	0.0	0.0	63.2	63.2
Cycle Q Clear(g_c), s				33.5	0.0	0.0	14.1	0.0	0.0	0.0	63.2	63.2
Prop In Lane				1.00	3.0	1.00	0.01	3.0	0.00	0.00	0012	1.00
Lane Grp Cap(c), veh/h				689	0	1.00	166	0	0.00	0.00	624	529
V/C Ratio(X)				0.60	0.00		0.85	0.00	0.00	0.00	2.02	1.65
Avail Cap(c_a), veh/h				689	0		288	0	0.00	0.00	624	529
HCM Platoon Ratio				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Jpstream Filter(I)				1.00	0.00	0.00	0.98	0.00	0.00	0.00	1.00	1.00
Uniform Delay (d), s/veh				37.0	0.0	0.0	75.4	0.0	0.0	0.0	53.4	53.4
ncr Delay (d2), s/veh				3.8	0.0	0.0	21.2	0.0	0.0	0.0		300.8
nitial Q Delay(d3),s/veh				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh				14.0	0.0	0.0	7.1	0.0	0.0			66.7
Unsig. Movement Delay,)		. 1.0	3.0	3.0	/	3.0	3.0	3.0	107.1	00.7
LnGrp Delay(d),s/veh	, S, VOI			40.8	0.0	0.0	96.6	0.0	0.0	0.0	518.1	354.2
LnGrp LOS				D	Α	0.0	70.0 F	Α	Α	Α	F	554.2 F
Approach Vol, veh/h					411	A		141			2132	
Approach Delay, s/veh					40.8	A		96.6			451.1	
Approach LOS					40.0 D			70.0 F			431.1	
					-			•			'	
Timer - Assigned Phs		2				6		8				
Phs Duration (G+Y+Rc),		22.6				69.0		78.4				
Change Period (Y+Rc), s		5.8				5.8		5.1				
Max Green Setting (Gma	•	29.2				63.2		60.9				
Max Q Clear Time (g_c+	·11), s	16.1				65.2		35.5				
Green Ext Time (p_c), s		8.0				0.0		1.8				
ntersection Summary												
HCM 6th Ctrl Delay			369.6									
HCM 6th LOS			F									
Notes												

Unsignalized Delay for [WBR] is excluded from calculations of the approach delay and intersection delay.

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Movement E	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations		स	7					†	7		4		
	122	2	14	0	0	0	0	12	11	286	1266	0	
	122	2	14	0	0	0	0	12	11	286	1266	0	
Initial Q (Qb), veh	0	0	0	· ·	U		0	0	0	0	0	0	
	1.00	U	1.00				1.00	U	1.00	1.00	U	1.00	
3	1.00	1.00	1.00				1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approach	1.00	No	1.00				1.00	No	1.00	1.00	No	1.00	
	678	1678	1678				0	1678	1678	1678	1678	0	
	131	2	0				0	13	12	308	1361	0	
	0.93	0.93	0.93				0.93	0.93	0.93	0.93	0.93	0.93	
Percent Heavy Veh, %	15	15	15				0.73	15	15	15	15	0.73	
	150	2	13				0	127	108	224	990	0	
	0.10	0.10	0.00				0.00	0.08	0.08	1.00	1.00	0.00	
	575	24	1422				0.00	1678	1422	307	1356	0.00	
	133	0	1422				0	13	12	1669	0	0	
Grp Sat Flow(s), veh/h/ln1!		0	1422				0	1678	1422	1662	0	0	
\ <u>0</u> _ /·	14.0	0.0	0.0				0.0	1.2	1.3	121.3	0.0	0.0	
,0_,	14.0	0.0	0.0				0.0	1.2		121.3	0.0	0.0	
	0.98	0	1.00				0.00	107	1.00	0.18	^	0.00	
Lane Grp Cap(c), veh/h		0					0	127	108	1215	0	0	
` '	0.87	0.00					0.00	0.10	0.11	1.37	0.00	0.00	
	215	0	1.00				0	127	108	1215	0	0	
	1.00	1.00	1.00				1.00	1.00	1.00	2.00	2.00	1.00	
	1.00	0.00	0.00				0.00	1.00	1.00	0.09	0.00	0.00	
Uniform Delay (d), s/veh7		0.0	0.0				0.0	73.2	73.2	0.0	0.0	0.0	
3 . ,	24.6	0.0	0.0				0.0	0.3	0.5	168.9	0.0	0.0	
Initial Q Delay(d3),s/veh		0.0	0.0				0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),veh/l		0.0	0.0				0.0	0.5	0.5	57.0	0.0	0.0	
Unsig. Movement Delay,													
LnGrp Delay(d),s/veh 10		0.0	0.0				0.0	73.5	73.7	168.9	0.0	0.0	
LnGrp LOS	F	Α					A	E	E	F	Α	A	
Approach Vol, veh/h		133	Α					25			1669		
Approach Delay, s/veh		100.5						73.6			168.9		
Approach LOS		F						Е			F		
Timer - Assigned Phs		2		4		6							
Phs Duration (G+Y+Rc),	S	18.7		21.3		130.0							
Change Period (Y+Rc), s		5.8		5.1		5.8							
Max Green Setting (Gmax		6.2		22.9		124.2							
Max Q Clear Time (g_c+l		3.3		16.0		123.3							
Green Ext Time (p_c), s	.,, 5	0.0		0.3		0.9							
Intersection Summary													
HCM 6th Ctrl Delay			162.6										
HCM 6th LOS			F										
Notes													

Unsignalized Delay for [EBR] is excluded from calculations of the approach delay and intersection delay.

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	- 1	^	7	ሻ	†	7	ሻ	î,			†	7	
Traffic Volume (veh/h)	116	395	19	8	662	151	15	5	10	113	9	184	
Future Volume (veh/h)	116	395	19	8	662	151	15	5	10	113	9	184	
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approac		No			No			No			No		
Adj Sat Flow, veh/h/ln	1678	1678	1678	1678	1678	1678	1678	1678	1678	1678	1678	1678	
Adj Flow Rate, veh/h	138	470	23	10	788	180	18	6	12	135	11	219	
Peak Hour Factor	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	
Percent Heavy Veh, %	15	15	15	15	15	15	15	15	15	15	15	15	
Cap, veh/h	168	857	727	35	718	609	57	53	107	165	292	247	
Arrive On Green	0.10	0.51	0.51	0.02	0.43	0.43	0.04	0.11	0.11	0.10	0.17	0.17	
Sat Flow, veh/h	1598	1678	1422	1598	1678	1422	1598	499	999	1598	1678	1422	
Grp Volume(v), veh/h	138	470	23	10	788	180	18	0	18	135	11	219	
Grp Sat Flow(s), veh/h/li		1678	1422	1598	1678	1422	1598	0	1498	1598	1678	1422	
Q Serve(g_s), s	7.9	17.8	0.8	0.6	40.0	7.7	1.0	0.0	1.0	7.7	0.5	1422	
Cycle Q Clear(g_c), s	7.9	17.8	0.8	0.6	40.0	7.7	1.0	0.0	1.0	7.7	0.5	14.0	
Prop In Lane	1.00	17.0	1.00	1.00	40.0	1.00	1.00	0.0	0.67	1.00	0.0	1.00	
Lane Grp Cap(c), veh/h		857	727	35	718	609	57	٥	160	1.00	292	247	
			0.03					0	0.11	0.82		0.89	
V/C Ratio(X)	0.82	0.55		0.28	1.10	0.30	0.31	0.00			0.04		
Avail Cap(c_a), veh/h	257	857	727	257	718	609	257	1.00	241	257	292	247	
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	
Uniform Delay (d), s/vel		15.5	11.3	44.9	26.7	17.5	43.9	0.0	37.7	41.0	32.1	37.7	
Incr Delay (d2), s/veh	12.0	0.9	0.0	4.3	63.1	0.4	3.1	0.0	0.4	11.3	0.1	29.9	
Initial Q Delay(d3),s/vel		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),vel		6.2	0.2	0.3	26.8	2.5	0.5	0.0	0.4	3.5	0.2	6.9	
Unsig. Movement Delay			44.	46.5	00.0	4= 0	4= 5		00.1	EC 2	06.1		
LnGrp Delay(d),s/veh	53.0	16.5	11.4	49.3	89.8	17.9	47.0	0.0	38.1	52.3	32.1	67.6	
LnGrp LOS	<u>D</u>	В	В	<u>D</u>	F	В	D	A	<u>D</u>	D	С	<u>E</u>	
Approach Vol, veh/h		631			978			36			365		
Approach Delay, s/veh		24.3			76.2			42.5			60.9		
Approach LOS		С			Е			D			Е		
Timer - Assigned Phs	1	2	3	4	5	6	7	8					
Phs Duration (G+Y+Rc)	86	54.2	15.1	15.5	16.3	46.5	8.9	21.8					
Change Period (Y+Rc),		6.5	5.5	5.5	6.5	6.5	5.5	5.5					
Max Green Setting (Gm		40.0	15.0	15.0	15.0	40.0	15.0	15.0					
Max Q Clear Time (q_c		19.8	9.7	3.0	9.9	42.0	3.0	16.0					
Green Ext Time (p_c),		3.0	0.2	0.0	0.2	0.0	0.0	0.0					
	5 0.0	3.0	0.2	0.0	0.2	0.0	0.0	0.0					
Intersection Summary													
HCM 6th Ctrl Delay			56.5										
HCM 6th LOS			Ε										
Notes													

User approved pedestrian interval to be less than phase max green.

	۶	→	•	•	←	•	4	†	/	/	ţ	4	
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	ሻ	^	7	7	^	7	7	₽		7	₽		
Traffic Volume (veh/h)	31	415	72	80	800	77	13	0	2	22	0	13	
Future Volume (veh/h)	31	415	72	80	800	77	13	0	2	22	0	13	
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approach	1	No			No			No			No		
Adj Sat Flow, veh/h/ln 1	1678	1678	1678	1678	1678	1678	1678	1678	1678	1678	1678	1678	
Adj Flow Rate, veh/h	34	451	78	87	870	84	14	0	2	24	0	14	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	
Percent Heavy Veh, %	15	15	15	15	15	15	15	15	15	15	15	15	
Cap, veh/h	53	1076	480	108	1205	537	21	0	86	55	0	116	
	0.03	0.34	0.34	0.07	0.38	0.38	0.01	0.00	0.06	0.03	0.00	0.08	
	1598	3188	1422	1598	3188	1422	1598	0	1422	1598	0	1422	
Grp Volume(v), veh/h	34	451	78	87	870	84	14	0	2	24	0	14	
Grp Sat Flow(s), veh/h/ln1		1594	1422	1598	1594	1422	1598	0	1422	1598	0	1422	
Q Serve(g_s), s	1.7	8.7	3.1	4.3	18.7	3.1	0.7	0.0	0.1	1.2	0.0	0.7	
Cycle Q Clear(g_c), s	1.7	8.7	3.1	4.3	18.7	3.1	0.7	0.0	0.1	1.2	0.0	0.7	
	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00	
Lane Grp Cap(c), veh/h	53	1076	480	108	1205	537	21	0	86	55	0	116	
	0.64	0.42	0.16	0.81	0.72	0.16	0.66	0.00	0.02	0.44	0.00	0.12	
Avail Cap(c_a), veh/h	100	1076	480	108	1205	537	80	0.00	427	80	0.00	427	
	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00	
Uniform Delay (d), s/veh		20.4	18.6	36.8	21.3	16.5	39.3	0.0	35.3	37.9	0.0	34.1	
	12.2	1.2	0.7	35.0	3.8	0.6	29.2	0.0	0.1	5.4	0.0	0.5	
Initial Q Delay(d3),s/veh		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%), veh		3.1	1.1	2.6	6.8	1.1	0.4	0.0	0.0	0.5	0.0	0.3	
Unsig. Movement Delay,					3.0			3.0	3.0	3.0	3.0	3.0	
	50.5	21.7	19.3	71.8	25.1	17.1	68.4	0.0	35.4	43.3	0.0	34.5	
LnGrp LOS	D	C	В	F	C	В	E	Α	D	D	Α	C	
Approach Vol, veh/h		563		_	1041			16			38		
Approach Delay, s/veh		23.1			28.3			64.3			40.1		
Approach LOS		23.1 C			20.5			04.5 E			40.1		
					- 0								
Timer - Assigned Phs	1	2	3	4	5	6	7	8					
Phs Duration (G+Y+Rc),		33.5	6.7	9.5	6.7	36.7	5.1	11.1					
Change Period (Y+Rc), s		6.5	4.0	4.6	4.0	6.5	4.0	4.6					
Max Green Setting (Gma		27.0	4.0	24.0	5.0	27.9	4.0	24.0					
Max Q Clear Time (g_c+		10.7	3.2	2.1	3.7	20.7	2.7	2.7					
Green Ext Time (p_c), s	0.0	2.7	0.0	0.0	0.0	3.3	0.0	0.0					
Intersection Summary													
HCM 6th Ctrl Delay			27.2										
HCM 6th LOS			27.2 C										
HOW UII LUS			C										

Intersection						
Int Delay, s/veh	0					
	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	∱ }			^		7
Traffic Vol, veh/h	331	108	0	957	0	3
Future Vol, veh/h	331	108	0	957	0	3
Conflicting Peds, #/hr	0	0	0	0	0	0
	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	-	0
Veh in Median Storage,	# 0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	15	0	0	15	0	0
Mymt Flow	360	117	0	1040	0	3
WWW. TOW	000	,	U	1010	U	J
Major/Minor Ma	ajor1	N	/lajor2	N	/linor1	
Conflicting Flow All	0	0	-	-	-	239
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	-	-	-	-	6.9
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	-	-	-	-	3.3
Pot Cap-1 Maneuver	-	-	0	-	0	768
Stage 1	_	_	0	_	0	-
Stage 2		_	0	_	0	_
Platoon blocked, %	_	_	U	_	U	
Mov Cap-1 Maneuver	-	-	_		_	768
		-				
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Approach	EB		WB		NB	
HCM Control Delay, s	0		0		9.7	
HCM LOS					A	
TOW LOO					, (
Minor Lane/Major Mvmt	1	NBLn1	EBT	EBR	WBT	
Capacity (veh/h)		768	-	-	-	
HCM Lane V/C Ratio		0.004	-	-	-	
HCM Control Delay (s)		9.7	-	-	-	
HCM Lane LOS		Α	-	-	-	
HCM 95th %tile Q(veh)		0	-	-	-	

	→	•	•	←	4	/
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	^	7	ሻ	^	W	
Traffic Volume (veh/h)	217	117	0	951	6	0
Future Volume (veh/h)	217	117	0	951	6	0
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	U	1.00	1.00	U	1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No	1.00	1.00	No	No	1.00
Adj Sat Flow, veh/h/ln	1678	418	418	1678	418	418
Adj Flow Rate, veh/h	236	127	0	1076	127	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	15	100	100	15	100	100
Cap, veh/h	1612	179	100	1612	9999	9999
•						0.20
Arrive On Green	0.51	0.51	0.00	0.51	0.20	
Sat Flow, veh/h	3272	354	398		0623406461	
Grp Volume(v), veh/h	236	127	0	1034	127	1
Grp Sat Flow(s), veh/h/ln	1594	354	398	1594	398	354
Q Serve(g_s), s	1.4	9.9	0.0	8.5	0.0	0.0
Cycle Q Clear(g_c), s	1.4	9.9	0.0	8.5	0.0	0.0
Prop In Lane		1.00	1.00		1.00	1.00
Lane Grp Cap(c), veh/h	1612	179	1		83 326624 17	
V/C Ratio(X)	0.15	0.71	0.00	0.64	0.00	0.00
Avail Cap(c_a), veh/h	2538	282	44	23123520460	03369525046	330112
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	0.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	4.7	6.8	0.0	6.5	0.0	0.0
Incr Delay (d2), s/veh	0.0	5.1	0.0	0.4	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.2	0.5	0.0	1.1	0.0	0.0
Unsig. Movement Delay, s/veh						
LnGrp Delay(d),s/veh	4.8	11.9	0.0	6.9	0.0	0.0
LnGrp LOS	А	В	A	A	A	A
Approach Vol, veh/h	363		, , , , , , , , , , , , , , , , , , ,	1034	128	
Approach Delay, s/veh	7.3			6.9	0.0	
Approach LOS	7.5 A			0.9 A	Α	
Approach LOS	А			А	А	
Timer - Assigned Phs	1	2		4		6
Phs Duration (G+Y+Rc), s	0.0	24.6		11.2		24.6
Change Period (Y+Rc), s	4.0	6.5		4.0		6.5
Max Green Setting (Gmax), s	4.0	28.5		18.0		36.5
Max Q Clear Time (g_c+l1), s	0.0	11.9		2.0		10.5
Green Ext Time (p_c), s	0.0	1.6		0.4		7.6
·	0.0	1.0		0.1		7.0
Intersection Summary						
HCM 6th Ctrl Delay			6.4			
HCM 6th LOS			Α			
Notos						
Notes						

User approved volume balancing among the lanes for turning movement.

Lane Configurations 1	-	•	→	•	•	←	•	1	†	/	/	ţ	4	
Traffic Volume (verhith) 8 229 2 0 912 13 1 0 2 34 0 2 Initial Q (Ob), veh 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Traffic Volume (veh/h) 8 229 2 0 912 13 1 0 2 34 0 2 Puture Volume (veh/h) 8 229 2 0 912 13 1 0 2 34 0 2 Puture Volume (veh/h) 8 229 2 0 912 13 1 0 2 34 0 2 Puture Volume (veh/h) 8 229 2 0 912 13 1 0 2 34 0 2 Puture Volume (veh/h) 8 229 2 0 912 13 1 0 2 34 0 2 Puture Volume (veh/h) 8 229 2 0 912 13 1 0 2 34 0 2 Puture Volume (veh/h) 8 229 2 0 912 13 1 0 2 34 0 2 Puture Volume (veh/h) 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Lane Configurations	Ĭ	ĵ.		ř	ĵ,			4			4		
Initial O (Ob), veh	Traffic Volume (veh/h)	8	229	2	0		13	1		2	34		2	
Ped-Bike Adj(A_pbT) 1.00	Future Volume (veh/h)	8	229	2	0	912	13	1	0	2	34	0	2	
Parking Bus, Adj 1.00	Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0	
Work Zone On Approach	Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00	
Adj Sat Flow, veh/h/ln 1752 1870 1752 1752 1870 1752 1752 1752 1752 1752 1752 1752 1752	Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Adj Flow Rate, veh/h 11 309 3 0 1232 18 1 0 0 3 46 0 3 Peak Hour Factor 0.74 0.74 0.74 0.74 0.74 0.74 0.74 0.74	Work Zone On Approach	1	No			No			No			No		
Peak Hour Factor 0.74 0.75 0.75 4 0.0 0.0	Adj Sat Flow, veh/h/ln 1	1752	1870	1752	1752	1870	1752	1752	1752	1752	1752	1752	1752	
Percent Heavy Veh, % 10 2 2 10 10 2 10 10 10 10 10 10 10 10 10 10 Cap, veh/h 18 1458 144 2 1325 119 2 0 5 5 55 0 4 4 Arrive On Green 0.01 0.79 0.79 0.00 0.72 0.72 0.00 0.00 0.00 0.00 0.04 0.00 0.04 Sat Flow, veh/h 1668 1849 18 1668 1839 27 382 0 1145 1554 0 101 0 Cgr Volume(v), veh/h 11 0 312 0 0 1250 4 0 0 49 0 0 0 Gress Of Serve(g.s.), s 0.5 0.0 3.0 0.0 0.0 39.7 0.2 0.0 0.0 0.0 0.2 1 0.0 0.0 0.0 0 0 0 0 0 0 0 0 0 0 0 0 0	Adj Flow Rate, veh/h	11	309	3	0	1232	18	1	0	3	46	0	3	
Cap, veh/h 18 1458 14 2 2 1325 19 2 0 5 55 0 4 Arrive On Green 0.01 0.79 0.79 0.00 0.72 0.72 0.00 0.00 0.00 0.04 0.00 0.04 Sat Flow, veh/h 1668 1849 18 1668 1839 27 382 0 1145 1554 0 101 Grp Volume(v), veh/h 11 0 312 0 0 1250 4 0 0 49 0 0 Grp Sat Flow(s), veh/h/in1668 0 1867 1668 0 1866 1527 0 0 0 1656 0 0 O Serve(g_s), s 0.5 0.0 3.0 0.0 0.0 39.7 0.2 0.0 0.0 2.1 0.0 0.0 Cycle Q Clear(g_c), s 0.5 0.0 3.0 0.0 0.0 39.7 0.2 0.0 0.0 2.1 0.0 0.0 Prop In Lane 1.00 0.01 1.00 0.01 0.05 Lane Grp Cap(c), veh/h 18 0 1472 2 0 1344 7 0 0 0 59 0 0 ViC Ratio(X) 0.60 0.00 0.21 0.00 0.00 0.93 0.61 0.00 0.00 0.83 0.00 0.00 HCM Platoon Ratio 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	Peak Hour Factor (0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	
Arrive On Green	Percent Heavy Veh, %	10	2	10	10	2	10	10	10	10	10	10	10	
Sat Flow, veh/h 1668 1849 18 1668 1839 27 382 0 1145 1554 0 101 Grp Vollume(v), veh/h 11 0 312 0 0 1250 4 0 0 49 0 0 Grp Sat Flow(s), veh/h/In1668 0 1867 1668 0 1866 1527 0 0 1656 0 0 O Serve(g_s), s 0.5 0.0 3.0 0.0 0.0 39.7 0.2 0.0 0.0 2.1 0.0 0.0 Ozo Clear(g_c), s 0.5 0.0 3.0 0.0 0.01 0.25 0.75 0.94 0.06 Lane Grp Cap(c), veh/h 18 0 1472 2 0 1344 7 0 0 0.9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0<	Cap, veh/h	18	1458	14	2	1325	19	2	0	5	55	0	4	
Grp Volume(v), veh/h 11 0 312 0 0 1250 4 0 0 49 0 0 0 Grp Sat Flow(s), veh/h/Infl668 0 1866 1668 0 1866 1527 0 0 1656 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Arrive On Green	0.01	0.79	0.79	0.00	0.72	0.72	0.00	0.00	0.00	0.04	0.00	0.04	
Grp Sat Flow(s), veh/h/In1668	Sat Flow, veh/h 1	1668	1849	18	1668	1839	27	382	0	1145	1554	0	101	
Grp Sat Flow(s), veh/h/In1668	Grp Volume(v), veh/h	11	0	312	0	0	1250	4	0	0	49	0	0	
Q Serve(g_s), s		1668	0		1668			1527	0	0	1656	0	0	
Cycle Q Člear(g_c), s	Q Serve(g_s), s									0.0		0.0	0.0	
Lane Grp Cap(c), veh/h 18 0 1472 2 0 1344 7 0 0 59 0 0 V/C Ratio(X) 0.60 0.00 0.21 0.00 0.00 0.93 0.61 0.00 0.00 0.83 0.00 0.00 Avail Cap(c_a), veh/h 95 0 1655 95 0 1653 87 0 0 95 0 0 HCM Platoon Ratio 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	Cycle Q Clear(q_c), s	0.5	0.0	3.0	0.0	0.0	39.7	0.2	0.0	0.0	2.1	0.0	0.0	
V/C Ratio(X) 0.60 0.00 0.21 0.00 0.00 0.93 0.61 0.00 0.00 0.83 0.00 0.00 Avail Cap(c_a), veh/h 95 0 1655 95 0 1653 87 0 0 95 0 0 HCM Platoon Ratio 1.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0 <t< td=""><td>Prop In Lane</td><td>1.00</td><td></td><td>0.01</td><td>1.00</td><td></td><td>0.01</td><td>0.25</td><td></td><td>0.75</td><td>0.94</td><td></td><td>0.06</td><td></td></t<>	Prop In Lane	1.00		0.01	1.00		0.01	0.25		0.75	0.94		0.06	
Avail Cap(c_a), veh/h 95 0 1655 95 0 1653 87 0 0 95 0 0 HCM Platoon Ratio 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	Lane Grp Cap(c), veh/h	18	0	1472	2	0	1344		0		59	0	0	
HCM Platoon Ratio	V/C Ratio(X)	0.60	0.00	0.21	0.00	0.00	0.93	0.61	0.00	0.00	0.83	0.00	0.00	
Upstream Filter(I) 1.00 0.00 1.00 0.00 0.00 1.00 1.00 0.00 0.00 1.00 0.	Avail Cap(c_a), veh/h	95	0	1655	95	0	1653	87	0	0	95	0	0	
Uniform Delay (d), s/veh34.4	HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Incr Delay (d2), s/veh 27.5 0.0 0.1 0.0 0.0 8.6 67.8 0.0 0.0 27.0 0.0 0.0 Initial Q Delay(d3),s/veh 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	Upstream Filter(I)	1.00	0.00	1.00	0.00	0.00	1.00	1.00	0.00	0.00	1.00	0.00	0.00	
Incr Delay (d2), s/veh 27.5 0.0 0.1 0.0 0.0 8.6 67.8 0.0 0.0 27.0 0.0 0.0 Initial Q Delay(d3),s/veh 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	Uniform Delay (d), s/veh3	34.4	0.0	1.9	0.0	0.0	8.3	34.8	0.0	0.0	33.5	0.0	0.0	
Initial Q Delay(d3),s/veh 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	3 : :		0.0	0.1	0.0	0.0	8.6	67.8	0.0	0.0	27.0	0.0	0.0	
%ile BackOfQ(50%), veh/lo.3 0.0 0.5 0.0 0.0 12.9 0.2 0.0 0.0 1.2 0.0 0.0 Unsig. Movement Delay, s/veh LnGrp Delay(d), s/veh 61.9 0.0 1.9 0.0 0.0 16.9 102.6 0.0 0.0 60.5 0.0 0.0 LnGrp LOS E A A A A B F A A E A A Approach Vol, veh/h 323 1250 4 49 Approach Delay, s/veh 4.0 16.9 102.6 60.5 Approach LOS A B F E Timer - Assigned Phs 1 2 4 5 6 8 Phs Duration (G+Y+Rc), s0.0 59.2 4.3 4.8 54.4 6.5 Change Period (Y+Rc), s 4.0 4.0 4.0 4.0 4.0 Max Green Setting (Gmax), 6 62.0 4.0 4.0 4.0 4.0 Max Q Clear Time (g_c+10), 0 5.0 2.2 2.5 41.7 4.1 Green Ext Time (p_c), s 0.0 1.3 0.0 0.0 8.7 0.0 Intersection Summary HCM 6th Ctrl Delay 15.9		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Unsig. Movement Delay, s/veh LnGrp Delay(d),s/veh 61.9 0.0 1.9 0.0 0.0 16.9 102.6 0.0 0.0 60.5 0.0 0.0 LnGrp LOS E A A A A B F A A E A A Approach Vol, veh/h 323 1250 4 49 Approach Delay, s/veh 4.0 16.9 102.6 60.5 Approach LOS A B F E Timer - Assigned Phs 1 2 4 5 6 8 Phs Duration (G+Y+Rc), s0.0 59.2 4.3 4.8 54.4 6.5 Change Period (Y+Rc), s 4.0 4.0 4.0 4.0 4.0 4.0 Max Green Setting (Gmax), s 62.0 4.0 4.0 4.0 4.0 Max Q Clear Time (g_c+I), s 5.0 2.2 2.5 41.7 4.1 Green Ext Time (p_c), s 0.0 1.3 0.0 0.0 8.7 0.0 Intersection Summary HCM 6th Ctrl Delay 15.9			0.0	0.5	0.0	0.0	12.9	0.2	0.0	0.0	1.2	0.0	0.0	
LnGrp Delay(d),s/veh 61.9 0.0 1.9 0.0 0.0 16.9 102.6 0.0 0.0 60.5 0.0 0.0 LnGrp LOS E A A A B F A A E A A Approach Vol, veh/h 323 1250 4 49 49 Approach Delay, s/veh 4.0 16.9 102.6 60.5 60.5 Approach LOS A B F E E Timer - Assigned Phs 1 2 4 5 6 8 Phs Duration (G+Y+Rc), s0.0 59.2 4.3 4.8 54.4 6.5 Change Period (Y+Rc), s 4.0 4.0 4.0 4.0 4.0 Max Green Setting (Gmax), 6 62.0 4.0 4.0 4.0 Max Q Clear Time (g_c+I10, 0s 5.0 2.2 2.5 41.7 4.1 Green Ext Time (p_c), s 0.0 1.3 0.0 0.0 8.7 0.0 Intersection Summary HCM 6th Ctrl Delay 15.	,		1											
LnGrp LOS E A A A B F A A E A A Approach Vol, veh/h 323 1250 4 49 Approach Delay, s/veh 4.0 16.9 102.6 60.5 Approach LOS A B F E Timer - Assigned Phs 1 2 4 5 6 8 Phs Duration (G+Y+Rc), s0.0 59.2 4.3 4.8 54.4 6.5 Change Period (Y+Rc), s 4.0 4.0 4.0 4.0 4.0 Max Green Setting (Gmax), 0s 62.0 4.0 4.0 4.0 Max Q Clear Time (g_c+ID), 0s 5.0 2.2 2.5 41.7 4.1 Green Ext Time (p_c), s 0.0 1.3 0.0 0.0 8.7 0.0 Intersection Summary HCM 6th Ctrl Delay 15.9				1.9	0.0	0.0	16.9	102.6	0.0	0.0	60.5	0.0	0.0	
Approach Vol, veh/h 323 1250 4 49 Approach Delay, s/veh 4.0 16.9 102.6 60.5 Approach LOS A B F E Timer - Assigned Phs 1 2 4 5 6 8 Phs Duration (G+Y+Rc), s0.0 59.2 4.3 4.8 54.4 6.5 Change Period (Y+Rc), s 4.0 4.0 4.0 4.0 4.0 Max Green Setting (Gmax), s 62.0 4.0 4.0 4.0 4.0 Max Q Clear Time (g_c+I1),0s 5.0 2.2 2.5 41.7 4.1 Green Ext Time (p_c), s 0.0 1.3 0.0 0.0 8.7 0.0 Intersection Summary HCM 6th Ctrl Delay 15.9	LnGrp LOS	Ε	Α	Α	Α	Α	В	F	Α	Α	Е	Α	Α	
Approach Delay, s/veh 4.0 16.9 102.6 60.5 Approach LOS A B F E Timer - Assigned Phs 1 2 4 5 6 8 Phs Duration (G+Y+Rc), s0.0 59.2 4.3 4.8 54.4 6.5 Change Period (Y+Rc), s 4.0 4.0 4.0 4.0 4.0 Max Green Setting (Gmax), 6 62.0 4.0 4.0 62.0 4.0 Max Q Clear Time (g_c+I1), 0 5.0 2.2 2.5 41.7 4.1 Green Ext Time (p_c), s 0.0 1.3 0.0 0.0 8.7 0.0 Intersection Summary HCM 6th Ctrl Delay 15.9			323			1250						49		
Approach LOS A B F E Timer - Assigned Phs 1 2 4 5 6 8 Phs Duration (G+Y+Rc), s0.0 59.2 4.3 4.8 54.4 6.5 Change Period (Y+Rc), s 4.0 4.0 4.0 4.0 4.0 Max Green Setting (Gmax), 6 62.0 4.0 4.0 62.0 4.0 Max Q Clear Time (g_c+I), 0s 5.0 2.2 2.5 41.7 4.1 Green Ext Time (p_c), s 0.0 1.3 0.0 0.0 8.7 0.0 Intersection Summary HCM 6th Ctrl Delay 15.9	• •													
Timer - Assigned Phs 1 2 4 5 6 8 Phs Duration (G+Y+Rc), s0.0 59.2 4.3 4.8 54.4 6.5 Change Period (Y+Rc), s 4.0 4.0 4.0 4.0 4.0 Max Green Setting (Gmax), 6 62.0 4.0 4.0 62.0 4.0 Max Q Clear Time (g_c+I1), 0s 5.0 2.2 2.5 41.7 4.1 Green Ext Time (p_c), s 0.0 1.3 0.0 0.0 8.7 0.0 Intersection Summary HCM 6th Ctrl Delay 15.9	Approach LOS								_			_		
Phs Duration (G+Y+Rc), s0.0 59.2 4.3 4.8 54.4 6.5 Change Period (Y+Rc), s 4.0 4.0 4.0 4.0 4.0 Max Green Setting (Gmax), s 62.0 4.0 4.0 62.0 4.0 Max Q Clear Time (g_c+I1), s 5.0 2.2 2.5 41.7 4.1 Green Ext Time (p_c), s 0.0 1.3 0.0 0.0 8.7 0.0 Intersection Summary HCM 6th Ctrl Delay 15.9		1	2		4	5	6		8					
Change Period (Y+Rc), s 4.0 4.0 4.0 4.0 4.0 4.0 4.0 Max Green Setting (Gmax), 6s 62.0 4.0 4.0 62.0 4.0 Max Q Clear Time (g_c+l1), 0s 5.0 2.2 2.5 41.7 4.1 Green Ext Time (p_c), s 0.0 1.3 0.0 0.0 8.7 0.0 Intersection Summary HCM 6th Ctrl Delay 15.9		90.0												
Max Green Setting (Gmax), 0s 62.0 4.0 4.0 62.0 4.0 Max Q Clear Time (g_c+I1), 0s 5.0 2.2 2.5 41.7 4.1 Green Ext Time (p_c), s 0.0 1.3 0.0 0.0 8.7 0.0 Intersection Summary HCM 6th Ctrl Delay 15.9	, , , , , , , , , , , , , , , , , , , ,													
Max Q Clear Time (g_c+11),0s 5.0 2.2 2.5 41.7 4.1 Green Ext Time (p_c), s 0.0 1.3 0.0 0.0 8.7 0.0 Intersection Summary HCM 6th Ctrl Delay 15.9														
Green Ext Time (p_c), s 0.0 1.3 0.0 0.0 8.7 0.0 Intersection Summary HCM 6th Ctrl Delay 15.9														
Intersection Summary HCM 6th Ctrl Delay 15.9														
HCM 6th Ctrl Delay 15.9	, , , , , , , , , , , , , , , , , , ,													
,				15.9										
	HCM 6th LOS			13.9 B										

•	\searrow	4	†	↓	4
Movement EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	7	*	†	1	
Traffic Volume (veh/h) 70	207	506	393	308	286
Future Volume (veh/h) 70	207	506	393	308	286
Initial Q (Qb), veh 0	0	0	0	0	0
Ped-Bike Adj(A_pbT) 1.00	1.00	1.00			1.00
Parking Bus, Adj 1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach No			No	No	
Adj Sat Flow, veh/h/ln 1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h 79	233	569	442	346	321
Peak Hour Factor 0.89	0.89	0.89	0.89	0.89	0.89
Percent Heavy Veh, % 2	2	2	2	2	2
Cap, veh/h 239	213	557	1417	349	324
Arrive On Green 0.13	0.13	0.31	0.76	0.39	0.39
Sat Flow, veh/h 1781	1585	1781	1870	893	828
Grp Volume(v), veh/h 79	233	569	442	0	667
Grp Sat Flow(s), veh/h/ln1781	1585	1781	1870	0	1721
Q Serve(q_s), s 4.8	16.1	37.5	9.0	0.0	46.2
Cycle Q Clear(g_c), s 4.8	16.1	37.5	9.0	0.0	46.2
Prop In Lane 1.00	1.00	1.00	7.0	0.0	0.48
Lane Grp Cap(c), veh/h 239	213	557	1417	0	673
	1.10	1.02			0.99
V/C Ratio(X) 0.33			0.31	0.00	
Avail Cap(c_a), veh/h 239	213	557	1417	1.00	673
HCM Platoon Ratio 1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I) 1.00	1.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh47.1	52.0	41.3	4.6	0.0	36.4
Incr Delay (d2), s/veh 0.8	89.6	43.9	0.1	0.0	32.5
Initial Q Delay(d3),s/veh 0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/l2.2	18.5	23.0	3.0	0.0	25.0
Unsig. Movement Delay, s/ve					
LnGrp Delay(d),s/veh 47.9	141.6	85.1	4.7	0.0	68.8
LnGrp LOS D	F	F	Α	Α	E
Approach Vol, veh/h 312			1011	667	
Approach Delay, s/veh 117.8			50.0	68.8	
Approach LOS F			D	Ε	
Timer Assigned Dhe	1		1	г	/
Timer - Assigned Phs	2		4	5	6
Phs Duration (G+Y+Rc), s	97.4		22.6	44.0	53.4
Change Period (Y+Rc), s	6.5		6.5	6.5	6.5
Max Green Setting (Gmax), s			16.1	37.5	46.9
Max Q Clear Time (g_c+l1), s			18.1	39.5	48.2
Green Ext Time (p_c), s	2.0		0.0	0.0	0.0
Intersection Summary					
HCM 6th Ctrl Delay		66.9			
HCM 6th LOS		E			
HOW OUT LOS					

Intersection						
Int Delay, s/veh	40.6					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	W		₽			4
Traffic Vol, veh/h	53	296	561	1	125	390
Future Vol, veh/h	53	296	561	1	125	390
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage	e, # 0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	86	86	86	86	86	86
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	62	344	652	1	145	453
N de l'en/N directi	N //:		1-1-1		Anto-O	
	Minor1		Major1		Major2	
Conflicting Flow All	1396	653	0	0	653	0
Stage 1	653	-	-	-	-	-
Stage 2	743	-	-	-	-	-
Critical Hdwy	6.42	6.22	-	-	4.12	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy		3.318	-	-	2.218	-
Pot Cap-1 Maneuver	156	467	-	-	934	-
Stage 1	518	-	-	-	-	-
Stage 2	470	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	124	467	-	-	934	-
Mov Cap-2 Maneuver	124	-	-	-	-	-
Stage 1	518	-	-	-	-	-
Stage 2	372	-	-	-	-	-
<u>.</u>						
	MA		NE		0.0	
Approach	WB		NB		SB	
HCM Control Delay, s			0		2.3	
HCM LOS	F					
Minor Lane/Major Mvn	nt	NBT	NRRV	VBLn1	SBL	SBT
Capacity (veh/h)		ושאו	ואוטויי	329	934	1001
HCM Lane V/C Ratio		-		1.233		-
HCM Control Delay (s	1			162.5	9.6	0
HCM Lane LOS		-				
HCM 95th %tile Q(ver	.)	-	-	F 10	Α	Α
HOW YOU WILL U(VER	IJ	-	-	18	0.6	-

Intersection												
Int Delay, s/veh	72.6											
int Delay, Siveri												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			4			Þ			4	
Traffic Vol, veh/h	0	0	0	108	0	441	0	20	8	373	17	1
Future Vol, veh/h	0	0	0	108	0	441	0	20	8	373	17	1
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storag	e,# -	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	84	84	84	84	84	84	84	84	84	84	84	84
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	0	0	0	129	0	525	0	24	10	444	20	1
Major/Minor	Minor2			Minor1		N	/lajor1		ı	Major2		
Conflicting Flow All	1201	943	21	938	938	29	viajui i	0	0	34	0	0
Stage 1	909	943	-	29	29	29	-	-	-	34	-	U
Stage 1 Stage 2	292	34	-	909	909	-	-	-	-	-	-	-
Critical Hdwy	7.12	6.52	6.22	7.12	6.52	6.22	-	-	-	4.12	-	-
Critical Hdwy Stg 1	6.12	5.52	0.22	6.12	5.52	0.22	-	-	-	4.12	-	-
	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-
Critical Hdwy Stg 2	3.518	4.018	3.318		4.018	3.318	-	-	-	2.218	-	-
Follow-up Hdwy Pot Cap-1 Maneuver	162	263	1056	244	264	1046	0	-	-	1578	-	-
	329	354	1000	988	871	1040	0	-	-	1376	-	-
Stage 1 Stage 2	716	867	-	329	354	-	0	-	-	-	-	-
Platoon blocked, %	/10	007	-	329	334	-	U	-	-	-	_	-
Mov Cap-1 Maneuver	63	188	1056	190	189	1046		-	-	1578	-	-
Mov Cap-1 Maneuver		188	1030	190	189	1040	-			1370	-	-
Stage 1	329	253	-	988	871	<u>-</u>	-	-	-	-	-	<u>-</u>
Stage 2	357	867	-	235	253	-	-			-	-	-
Staye 2	337	007	_	233	200	-	_	_	_	-	_	_
Approach	EB			WB			NB			SB		
HCM Control Delay, s	0			122.4			0			7.8		
HCM LOS	Α			F								
Minor Lane/Major Mvi	nt	NBT	NBR	EBLn1V	VBLn1	SBL	SBT	SBR				
Capacity (veh/h)					555	1578						
HCM Lane V/C Ratio		_		_		0.281	-	_				
HCM Control Delay (s	:)	-			122.4	8.2	0	_				
HCM Lane LOS	7)	_	-	A	122.4 F	Α.2	A					
HCM 95th %tile Q(vel	h)		-	-	23	1.2	-	-				
1101VI 73111 701116 Q(VC	'')		_		23	1.2		-				

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations					र्स	77		^			ተተተ	7
Traffic Volume (veh/h)	0	0	0	428	4	301	37	457	0	0	532	34
Future Volume (veh/h)	0	0	0	428	4	301	37	457	0	0	532	34
Initial Q (Qb), veh				0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)				1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach					No			No			No	
Adj Sat Flow, veh/h/ln				1678	1678	1678	1678	1678	0	0	1678	1678
Adj Flow Rate, veh/h				465	4	327	40	497	0	0	578	0
Peak Hour Factor				0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %				15	15	15	15	15	0	0	15	15
Cap, veh/h				562	5	887	110	1331	0	0	1160	
Arrive On Green				0.38	0.35	0.35	0.07	0.42	0.00	0.00	0.25	0.00
Sat Flow, veh/h				1585	14	2502	1598	3272	0	0	4731	1422
Grp Volume(v), veh/h				469	0	327	40	497	0	0	578	0
Grp Sat Flow(s), veh/h/ln				1598	0	1251	1598	1594	0	0	1527	1422
Q Serve(g_s), s				12.6	0.0	4.6	1.1	5.1	0.0	0.0	5.1	0.0
Cycle Q Clear(g_c), s				12.6	0.0	4.6	1.1	5.1	0.0	0.0	5.1	0.0
Prop In Lane				0.99		1.00	1.00		0.00	0.00		1.00
Lane Grp Cap(c), veh/h				566	0	887	110	1331	0	0	1160	
V/C Ratio(X)				0.83	0.00	0.37	0.36	0.37	0.00	0.00	0.50	
Avail Cap(c_a), veh/h				841	0	1316	557	2983	0	0	2254	
HCM Platoon Ratio				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)				1.00	0.00	1.00	1.00	1.00	0.00	0.00	1.00	0.00
Uniform Delay (d), s/veh				13.4	0.0	11.4	21.0	9.5	0.0	0.0	15.1	0.0
Incr Delay (d2), s/veh				3.4	0.0	0.2	0.7	0.1	0.0	0.0	0.1	0.0
Initial Q Delay(d3),s/veh				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln				4.1	0.0	1.1	0.4	1.4	0.0	0.0	1.5	0.0
Unsig. Movement Delay, s/veh				1/0	0.0	44.5	04.0	0.7	0.0	0.0	45.0	0.0
LnGrp Delay(d),s/veh				16.8	0.0	11.5	21.8	9.6	0.0	0.0	15.2	0.0
LnGrp LOS				В	A	В	С	A	A	A	B	
Approach Vol, veh/h					796			537			578	Α
Approach Delay, s/veh					14.6			10.5			15.2	
Approach LOS					В			В			В	
Timer - Assigned Phs		2			5	6		8				
Phs Duration (G+Y+Rc), s		25.5			7.8	17.7		21.9				
Change Period (Y+Rc), s		5.7			4.5	5.7		5.1				
Max Green Setting (Gmax), s		44.3			16.5	23.3		24.9				
Max Q Clear Time (g_c+I1), s		7.1			3.1	7.1		14.6				
Green Ext Time (p_c), s		1.4			0.0	1.6		2.2				
Intersection Summary												
HCM 6th Ctrl Delay			13.7									
HCM 6th LOS			В									
Notos												

Unsignalized Delay for [SBR] is excluded from calculations of the approach delay and intersection delay.

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Movement EB	L E	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
	<u>ነ</u>	4	1					^	7		^		
Traffic Volume (veh/h) 11	•	1	54	0	0	0	0	381	863	0	682	0	
Future Volume (veh/h) 11		1	54	0	0	0	0	381	863	0	682	0	
. ,	0	0	0		, ,		0	0	0	0	0	0	
Ped-Bike Adj(A_pbT) 1.0			1.00				1.00	J	1.00	1.00		1.00	
Parking Bus, Adj 1.0		1.00	1.00				1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approach		No	1.00				1.00	No	1.00	1.00	No	1.00	
Adj Sat Flow, veh/h/ln 167		678	1678				0	1678	1678	0	1678	0	
Adj Flow Rate, veh/h 12		0	60				0	423	959	0	758	0	
Peak Hour Factor 0.9		0.90	0.90				0.90	0.90	0.90	0.90	0.90	0.90	
Percent Heavy Veh, % 1		15	15				0.70	15	15	0.70	15	0.70	
Cap, veh/h 36		0	162				0	2316	1033	0	2316	0	
Arrive On Green 0.1		0.00	0.11				0.00	0.73	0.73	0.00	0.73	0.00	
Sat Flow, veh/h 319		0.00	1422				0.00	3272	1422	0.00	3355	0.00	
-													
Grp Volume(v), veh/h 12		0	60				0	423	959	0	758	0	
Grp Sat Flow(s), veh/h/ln159		0	1422				0	1594	1422	0	1594	0	
Q Serve(g_s), s 2.		0.0	2.6				0.0	2.8	38.5	0.0	5.8	0.0	
Cycle Q Clear(g_c), s 2.		0.0	2.6				0.0	2.8	38.5	0.0	5.8	0.0	
Prop In Lane 1.0		^	1.00				0.00	221/	1.00	0.00	001/	0.00	
Lane Grp Cap(c), veh/h 36		0	162				0	2316	1033	0	2316	0	
V/C Ratio(X) 0.3		0.00	0.37				0.00	0.18	0.93	0.00	0.33	0.00	
Avail Cap(c_a), veh/h 93		0	417				0	2316	1033	0	2316	0	
HCM Platoon Ratio 1.0		1.00	1.00				1.00	1.00	1.00	1.00	1.00	1.00	
Upstream Filter(I) 1.0		0.00	1.00				0.00	1.00	1.00	0.00	1.00	0.00	
Uniform Delay (d), s/veh27.		0.0	27.8				0.0	2.9	7.8	0.0	3.3	0.0	
Incr Delay (d2), s/veh 0.		0.0	0.5				0.0	0.2	15.3	0.0	0.4	0.0	
Initial Q Delay(d3),s/veh 0.		0.0	0.0				0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%), veh/ln.		0.0	0.9				0.0	0.6	11.1	0.0	1.2	0.0	
Unsig. Movement Delay, s/v													
LnGrp Delay(d),s/veh 27.		0.0	28.3				0.0	3.1	23.1	0.0	3.7	0.0	
LnGrp LOS	<u> </u>	<u>A</u>	<u>C</u>				<u>A</u>	A	С	<u>A</u>	A	A	
Approach Vol, veh/h		185						1382			758		
Approach Delay, s/veh	2	28.0						17.0			3.7		
Approach LOS		С						В			Α		
Timer - Assigned Phs		2		4		6							
Phs Duration (G+Y+Rc), s	5	55.0		12.9		55.0							
Change Period (Y+Rc), s		5.7		5.1		5.7							
Max Green Setting (Gmax),		19.3		19.9		49.3							
Max Q Clear Time (q_c+l1)		10.5		4.6		7.8							
Green Ext Time (p_c), s		3.6		0.1		2.3							
Intersection Summary													
HCM 6th Ctrl Delay			13.5										
HCM 6th LOS			В										
Notes													

User approved volume balancing among the lanes for turning movement.

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Movement E	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	¥	^	7	1,1		7	7	44	7	44	^	7	
Traffic Volume (veh/h)	45	43	77	646	36	302	121	834	514	219	979	23	
Future Volume (veh/h)	45	43	77	646	36	302	121	834	514	219	979	23	
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0	
Jı ,	.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00	
	.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approach	0.40	No	1001	10/0	No	1001	10/0	No	1001	10/0	No	1001	
,	060	1589	1324	1060	1589	1324	1060	1589	1324	1060	1589	1324	
Adj Flow Rate, veh/h	51	48	87	726	40	339	136	937	578	246	1100	26	
	1.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	
Percent Heavy Veh, %	15	15	15	15	15	15	15	15	15	15	15	15	
Cap, veh/h	64	330	123	512	488	345	132	928	345	273	954	354	
	0.06	0.11	0.11 1122	0.26	0.31	0.31	0.13	0.31	0.31	0.14	0.32	0.32	
		3020		1958	1589	1122		3020	1122	1958	3020	1122	
Grp Volume(v), veh/h	51	48	87	726	40	339	136	937	578	246	1100	26	
Grp Sat Flow(s), veh/h/ln10		1510	1122	979	1589	1122	1009	1510	1122	979	1510	1122	
\ <u>0</u> — /·	7.6	2.2	11.5	40.0	2.7	45.9	20.0	47.0	47.0	18.9	48.3	2.5	
3 (5- /-	7.6	2.2	11.5	40.0	2.7	45.9	20.0	47.0	47.0	18.9	48.3	2.5	
	.00	220	1.00	1.00	400	1.00	1.00	റാറ	1.00	1.00	OE 4	1.00	
1 1 7	64 0.80	330	123	512	488	345 0.98	132 1.03	928	345	273 0.90	954 1.15	354 0.07	
` ,	132	0.15 395	0.71	1.42 512	0.08 488	345	1.03	1.01 928	1.68 345	320	954	354	
1 \ - /-	.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
	.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Uniform Delay (d), s/veh7		61.7	65.8	56.5	37.7	52.6	66.5	53.0	53.0	64.8	52.4	36.7	
	9.6	0.2	11.9	199.7	0.1	43.8	86.9	32.1	316.9	24.8	81.1	0.1	
Initial Q Delay(d3),s/veh		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),veh/li		0.9	3.6	23.8	1.1	16.8	8.4	21.9	43.2	5.7	29.0	0.7	
Unsig. Movement Delay, s			0.0	20.0		10.0	0.1	21.7	10.2	0.7	27.0	0.7	
3	0.3	61.9	77.8	256.2	37.7	96.5	153.4	85.1	369.9	89.6	133.5	36.8	
LnGrp LOS	F	E	E	F	D	F	F	F	F	F	F	D	
Approach Vol, veh/h		186			1105			1651			1372		
Approach Delay, s/veh		77.1			199.3			190.4			123.8		
Approach LOS		Е			F			F			F		
Timer - Assigned Phs	1	2	3	4	5	6	7	8					
Phs Duration (G+Y+Rc), 25	<u>.</u> 833	54.0	47.0	23.7	27.0	55.3	16.7	54.0					
Change Period (Y+Rc), s		7.0	7.0	7.0	7.0	7.0	7.0	7.0					
Max Green Setting (Gmax		47.0	40.0	20.0	20.0	47.0	20.0	47.0					
Max Q Clear Time (q_c+2)		49.0	42.0	13.5	22.0	50.3	9.6	47.9					
Green Ext Time (p_c), s		0.0	0.0	0.2	0.0	0.0	0.1	0.0					
Intersection Summary													
HCM 6th Ctrl Delay			166.6										
HCM 6th LOS			F										
HOW OUT LOS			Г										

Movement	<i>≯</i> →	•	•	•	•	4	†	/	-	ļ	4
Lane Configurations	Movement EBL EB	T EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Traffic Volume (veh/h)											
Future Volume (veh/h)		0 0	5			10		0	0		
Initial O (Ob), veh	` ,			-							
Ped-Bike Adj (A_pbT)	` ′										
Parking Bus, Adj	, ,									_	
Nork Zöne On Approach				1.00			1.00			1.00	
Adj Sat Flow, veh/h/In 1678 1678 1678 1678 1678 0 0 11 1085 0 0 1381 422 Peak Hour Factor 0.95 0.00 0.00 0.01 1.01 975 0 0 515 437 Arrive On Green 0.01 1.02 0.01 1.02 1.01 1678 1422 167 0 0 1678 1422 Gry Volume(v), veh/h 1598 0 1422 167 0 0 1678 1422 0 988 0 0 0 1678 1422 0 988 0 0 0	,					1100		1100			
Adj Flow Rate, veh/h			1678		1678	1678		0	0		1678
Peak Hour Factor 0.95 0.											
Percent Heavy Veh, %											
Cap, veh/h 12 0 10 975 0 0 515 437 Arrive On Green 0.01 0.00 0.00 0.59 0.59 0.00 0.00 0.31 0.31 Sat Flow, veh/h 1598 0 1422 1677 0 0 0 1381 422 Grp Sat Flow(s), veh/h/In 1598 0 1422 1677 0 0 0 1678 1422 O Serve(g_S), s 0.5 0.0 0.0 99.8 0.0 0.0 0.0 52.2 49.7 Cycle O Clear(g_C), s 0.5 0.0 0.0 99.8 0.0 0.0 0.0 52.2 49.7 Cycle O Clear(g_C), seh/h 12 0 985 0 0 0 515 437 V/C Ratio(X) 0.42 0.0 1.00 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>											
Arrive On Green											
Sat Flow, veh/h 1598 0 1422 17 1660 0 0 1678 1422 Grp Volume(v), veh/h 5 0 0 1096 0 0 0 1381 422 Grp Sat Flow(s), veh/h/In 1598 0 1422 1677 0 0 0 1678 1422 Q Serve(g_s), s 0.5 0.0 0.0 99.8 0.0 0.0 0.0 52.2 49.7 Cycle Q Clear(g_c), s 0.5 0.0 0.0 99.8 0.0 0.0 0.0 52.2 49.7 Prop In Lane 1.00 1.00 1.00 0.01 0.00 0.0 0.0 52.2 49.7 Prop In Lane 1.00 1.00 1.00 0.0					0.00						
Grp Volume(v), veh/h 5 0 0 1096 0 0 1381 422 Grp Sat Flow(s), veh/h/In 1598 0 1422 1677 0 0 0 1678 1422 Q Serve(g_s), s 0.5 0.0 0.0 99.8 0.0 0.0 0.0 52.2 49.7 Cycle Q Clear(g_c), s 0.5 0.0 0.0 99.8 0.0 0.0 0.0 52.2 49.7 Prop In Lane 1.00 1.00 1.00 0.01 0.00 0.0 0.0 515 437 V/C Ratio(X) 0.42 0.00 1.11 0.00 0.00 0.0 2.68 0.97 Avail Cap(c_a), veh/h 131 0 985 0 0 0 515 437 HCM Platoon Ratio 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00											
Grp Sat Flow(s), veh/h/ln 1598 0 1422 1677 0 0 0 1678 1422 Q Serve(g_s), s 0.5 0.0 0.0 99.8 0.0 0.0 0.0 52.2 49.7 Cycle Q Clear(g_c), s 0.5 0.0 0.0 99.8 0.0 0.0 0.0 52.2 49.7 Prop In Lane 1.00 1.00 0.00 0.00 0.0 1.00 1.00 1.00 0.00 0.0 51.5 437 V/C Ratio(X) 0.42 0.00 1.11 0.00 0.00 0.0 2.68 0.97 Avail Cap(c_a), veh/h 131 0 985 0 0 0 515 437 HCM Platoon Ratio 1.00	-										
Q Serve(g_s), s 0.5 0.0 0.0 99.8 0.0 0.0 52.2 49.7 Cycle Q Clear(g_c), s 0.5 0.0 0.0 99.8 0.0 0.0 0.0 52.2 49.7 Prop In Lane 1.00 1.00 1.00 0.01 0.00 0.00 0.00 1.00 Lane Grp Cap(c), veh/h 12 0 985 0 0 0 515 437 V/C Ratio(X) 0.42 0.00 1.11 0.00 0.00 0.00 2.68 0.97 Avail Cap(c_a), veh/h 131 0 985 0 0 0 515 437 HCM Platoon Ratio 1.00											
Cycle Q Clear(g_c), s 0.5 0.0 0.0 99.8 0.0 0.0 0.0 52.2 49.7 Prop In Lane 1.00 1.00 0.01 0.00 0.00 1.00 Lane Grp Cap(c), veh/h 12 0 985 0 0 515 437 V/C Ratio(X) 0.42 0.00 1.11 0.00 0.00 0.00 2.68 0.97 Avail Cap(c_a), veh/h 131 0 985 0 0 0 515 437 HCM Platoon Ratio 1.00											
Prop In Lane											
Lane Grp Cap(c), veh/h				0.0			0.0			JZ.Z	
V/C Ratio(X) 0.42 0.00 1.11 0.00 0.00 0.00 2.68 0.97 Avail Cap(c_a), veh/h 131 0 985 0 0 0 515 437 HCM Platoon Ratio 1.00<	•			٥	1.00		Λ			515	
Name											
HCM Platoon Ratio 1.00 1	` '										
Upstream Filter(I) 1.00 0.00 0.00 0.09 0.00 0.00 0.00 1.00 Uniform Delay (d), s/veh 84.0 0.0 0.0 35.1 0.0 0.0 58.9 58.0 Incr Delay (d2), s/veh 22.0 0.0 0.0 52.4 0.0 0.0 761.9 35.2 Initial Q Delay(d3),s/veh 0.0					1 00						
Uniform Delay (d), s/veh											
Incr Delay (d2), s/veh 22.0 0.0 0.0 52.4 0.0 0.0 761.9 35.2 Initial Q Delay(d3),s/veh 0.0 131.2 22.2 Unsig. Movement Delay, s/veh 106.0 0.0 0.0 87.5 0.0 0.0 0.0 820.8 93.2 LnGrp DOS F A F A A A A F F Approach Vol, veh/h 5 A 1096 1803											
Initial Q Delay(d3),s/veh											
%ile BackOfQ(50%),veh/ln 0.3 0.0 0.0 53.9 0.0 0.0 131.2 22.2 Unsig. Movement Delay, s/veh 106.0 0.0 0.0 87.5 0.0 0.0 0.0 820.8 93.2 LnGrp LOS F A F A A A F F Approach Vol, veh/h 5 A 1096 1803 Approach Delay, s/veh 106.0 87.5 650.5 Approach LOS F F F F Timer - Assigned Phs 2 6 8 Phs Duration (G+Y+Rc), s 105.6 58.0 6.4 Change Period (Y+Rc), s 5.8 5.8 5.1 Max Green Setting (Gmax), s 87.2 52.2 13.9 Max Q Clear Time (g_c+l1), s 101.8 54.2 2.5 Green Ext Time (p_c), s 0.0 0.0 0.0 Intersection Summary HCM 6th Ctrl Delay 437.1 HCM 6th LOS F											
Unsig. Movement Delay, s/veh LnGrp Delay(d),s/veh 106.0 0.0 0.0 87.5 0.0 0.0 80.8 93.2 LnGrp LOS F A F A A A F F Approach Vol, veh/h 5 A 1096 1803 Approach Delay, s/veh 106.0 87.5 650.5 Approach LOS F F F Timer - Assigned Phs 2 6 8 Phs Duration (G+Y+Rc), s 105.6 58.0 6.4 Change Period (Y+Rc), s 5.8 5.1 5.1 Max Green Setting (Gmax), s 87.2 52.2 13.9 Max Q Clear Time (g_c+l1), s 101.8 54.2 2.5 Green Ext Time (p_c), s 0.0 0.0 0.0 Intersection Summary HCM 6th LOS F											
LnGrp Delay(d),s/veh 106.0 0.0 0.0 87.5 0.0 0.0 0.0 820.8 93.2 LnGrp LOS F A F A A A F F Approach Vol, veh/h 5 A 1096 1803 A Approach Delay, s/veh 106.0 87.5 650.5 A 650.5 Approach LOS F<			0.3	0.0	0.0	JJ.7	0.0	0.0	0.0	131.2	22.2
LnGrp LOS F A F A A A F F A A A F F A A A F F F A A A F F F A A A F F A A A A F F Approach Delay, s/veh 106.0 87.5 650.5 650.5 650.5 Approach LOS F	9		106.0	0.0	0.0	Q7 5	0.0	0.0	0.0	820 B	03.3
Approach Vol, veh/h 5 A 1096 1803 Approach Delay, s/veh 106.0 87.5 650.5 Approach LOS F F F Timer - Assigned Phs 2 6 8 Phs Duration (G+Y+Rc), s 105.6 58.0 6.4 Change Period (Y+Rc), s 5.8 5.1 Max Green Setting (Gmax), s 87.2 52.2 13.9 Max Q Clear Time (g_c+l1), s 101.8 54.2 2.5 Green Ext Time (p_c), s 0.0 0.0 0.0 Intersection Summary HCM 6th Ctrl Delay 437.1 HCM 6th LOS F F					0.0						
Approach Delay, s/veh Approach LOS F F F F F F F F F F F F F F F F F F F			Г		Λ	Г		A	A		
Approach LOS	•				А						
Timer - Assigned Phs 2 6 8 Phs Duration (G+Y+Rc), s 105.6 58.0 6.4 Change Period (Y+Rc), s 5.8 5.8 5.1 Max Green Setting (Gmax), s 87.2 52.2 13.9 Max Q Clear Time (g_c+I1), s 101.8 54.2 2.5 Green Ext Time (p_c), s 0.0 0.0 0.0 Intersection Summary HCM 6th Ctrl Delay 437.1 HCM 6th LOS F											
Phs Duration (G+Y+Rc), s 105.6 58.0 6.4 Change Period (Y+Rc), s 5.8 5.1 Max Green Setting (Gmax), s 87.2 52.2 13.9 Max Q Clear Time (g_c+l1), s 101.8 54.2 2.5 Green Ext Time (p_c), s 0.0 0.0 0.0 Intersection Summary HCM 6th Ctrl Delay 437.1 HCM 6th LOS F	Appidacii LOS			Г			Г			Г	
Change Period (Y+Rc), s 5.8 5.1 Max Green Setting (Gmax), s 87.2 52.2 13.9 Max Q Clear Time (g_c+l1), s 101.8 54.2 2.5 Green Ext Time (p_c), s 0.0 0.0 0.0 Intersection Summary HCM 6th Ctrl Delay 437.1 HCM 6th LOS F											
Max Green Setting (Gmax), s 87.2 52.2 13.9 Max Q Clear Time (g_c+l1), s 101.8 54.2 2.5 Green Ext Time (p_c), s 0.0 0.0 0.0 Intersection Summary HCM 6th Ctrl Delay 437.1 HCM 6th LOS F											
Max Q Clear Time (g_c+l1), s 101.8 54.2 2.5 Green Ext Time (p_c), s 0.0 0.0 Intersection Summary HCM 6th Ctrl Delay 437.1 HCM 6th LOS F											
Green Ext Time (p_c), s 0.0 0.0 0.0 Intersection Summary HCM 6th Ctrl Delay 437.1 HCM 6th LOS F	3 \ ,										
Intersection Summary HCM 6th Ctrl Delay 437.1 HCM 6th LOS F											
HCM 6th Ctrl Delay 437.1 HCM 6th LOS F	Green Ext Time (p_c), s 0.	0			0.0		0.0				
HCM 6th Ctrl Delay 437.1 HCM 6th LOS F	Intersection Summary										
HCM 6th LOS F		437.1									
	,										
	Notes										

Unsignalized Delay for [WBR] is excluded from calculations of the approach delay and intersection delay.

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations		4	7					<u> </u>	7		4		
Traffic Volume (veh/h)	189	4	66	0	0	0	0	859	433	1254	55	0	
Future Volume (veh/h)	189	4	66	0	0	0	0	859	433	1254	55	0	
Initial Q (Qb), veh	0	0	0	Ū			0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)	1.00	U	1.00				1.00	U	1.00	1.00	U	1.00	
Parking Bus, Adj	1.00	1.00	1.00				1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approac		No	1100				1100	No	1100	1.00	No	1.00	
Adj Sat Flow, veh/h/ln	1678	1678	1678				0	1678	1678	1678	1678	0	
Adj Flow Rate, veh/h	201	4	0				0	914	461	1334	59	0	
Peak Hour Factor	0.94	0.94	0.94				0.94	0.94	0.94	0.94	0.94	0.94	
Percent Heavy Veh, %	15	15	15				0	15	15	15	15	0	
Cap, veh/h	222	4					0	711	602	516	23	0	
Arrive On Green	0.14	0.14	0.00				0.00	0.42	0.42	0.34	0.34	0.00	
Sat Flow, veh/h	1568	31	1422				0.00	1678	1422	1533	68	0.00	
Grp Volume(v), veh/h	205	0	0				0	914	461	1393	0	0	
Grp Sat Flow(s), veh/h/h		0	1422				0	1678	1422	1601	0	0	
Q Serve(g_s), s	21.5	0.0	0.0				0.0	72.0	47.0	57.2	0.0	0.0	
Cycle Q Clear(g_c), s	21.5	0.0	0.0				0.0	72.0	47.0	57.2	0.0	0.0	
Prop In Lane	0.98	0.0	1.00				0.00	72.0	1.00	0.96	0.0	0.00	
Lane Grp Cap(c), veh/h		0	1.00				0	711	602	539	0	0	
V/C Ratio(X)	0.90	0.00					0.00	1.29	0.77	2.59	0.00	0.00	
Avail Cap(c_a), veh/h	310	0					0	711	602	539	0	0	
HCM Platoon Ratio	1.00	1.00	1.00				1.00	1.00	1.00	1.00	1.00	1.00	
Upstream Filter(I)	1.00	0.00	0.00				0.00	1.00	1.00	0.09	0.00	0.00	
Uniform Delay (d), s/vel		0.0	0.0				0.0	49.0	41.8	56.4	0.0	0.0	
Incr Delay (d2), s/veh	24.2	0.0	0.0				0.0	139.2	9.0	714.1	0.0	0.0	
Initial Q Delay(d3),s/vel		0.0	0.0				0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),vel		0.0	0.0				0.0	57.5	18.1	129.9	0.0	0.0	
Unsig. Movement Delay													
LnGrp Delay(d),s/veh	96.0	0.0	0.0				0.0	188.2	50.8	770.5	0.0	0.0	
LnGrp LOS	F	Α					Α	F	D	F	Α	Α	
Approach Vol, veh/h		205	А					1375			1393		
Approach Delay, s/veh		96.0						142.1			770.5		
Approach LOS		F						F			F		
Timer - Assigned Phs		2		4		6							
Phs Duration (G+Y+Rc)), s	77.8		29.2		63.0							
Change Period (Y+Rc),		5.8		5.1		5.8							
Max Green Setting (Gm		63.2		32.9		57.2							
Max Q Clear Time (g_c	, ,	74.0		23.5		59.2							
Green Ext Time (p_c),		0.0		0.6		0.0							
Intersection Summary													
HCM 6th Ctrl Delay			433.4										
HCM 6th LOS			F										
Notes													

Unsignalized Delay for [EBR] is excluded from calculations of the approach delay and intersection delay.

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	ች		7	ች	4	7	ሻ	î,		ች	↑	7
Traffic Volume (veh/h)	159	513	26	8	192	94	20	6	15	194	2	185
Future Volume (veh/h)	159	513	26	8	192	94	20	6	15	194	2	185
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00	_	1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approac		No	1100	1100	No	1.00	1100	No	1100	1100	No	1.00
Adj Sat Flow, veh/h/ln	1678	1678	1678	1678	1678	1678	1678	1678	1678	1678	1678	1678
Adj Flow Rate, veh/h	189	611	31	10	229	112	24	7	18	231	2	220
Peak Hour Factor	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84
Percent Heavy Veh, %	15	15	15	15	15	15	15	15	15	15	15	15
Cap, veh/h	224	674	571	36	477	404	74	50	129	265	403	341
Arrive On Green	0.14	0.40	0.40	0.02	0.28	0.28	0.05	0.12	0.12	0.17	0.24	0.24
Sat Flow, veh/h	1598	1678	1422	1598	1678	1422	1598	416	1069	1598	1678	1422
Grp Volume(v), veh/h	189	611	31	10	229	112	24	0	25	231	2	220
Grp Sat Flow(s), veh/h/h		1678	1422	1598	1678	1422	1598	0	1485	1598	1678	1422
Q Serve(g_s), s	9.6	28.4	1.1	0.5	9.4	5.1	1.2	0.0	1.2	11.7	0.1	11.5
Cycle Q Clear(g_c), s	9.6	28.4	1.1	0.5	9.4	5.1	1.2	0.0	1.2	11.7	0.1	11.5
Prop In Lane	1.00	20.7	1.00	1.00	7.7	1.00	1.00	0.0	0.72	1.00	0.1	1.00
Lane Grp Cap(c), veh/h		674	571	36	477	404	74	0	179	265	403	341
V/C Ratio(X)	0.84	0.91	0.05	0.28	0.48	0.28	0.33	0.00	0.14	0.87	0.00	0.64
Avail Cap(c_a), veh/h	289	810	686	289	810	686	289	0.00	269	289	403	341
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/vel		23.3	15.2	39.8	24.6	23.0	38.3	0.00	32.6	33.7	23.9	28.3
Incr Delay (d2), s/veh	16.2	13.0	0.1	4.2	1.1	0.5	2.5	0.0	0.5	22.7	0.0	4.7
Initial Q Delay(d3),s/vel		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),vel		12.2	0.4	0.0	3.6	1.7	0.5	0.0	0.5	6.1	0.0	4.2
Unsig. Movement Delay			0.7	0.2	3.0	1.7	0.0	0.0	0.0	J. 1	0.0	1.2
LnGrp Delay(d),s/veh	51.0	36.4	15.2	44.0	25.7	23.6	40.8	0.0	33.1	56.4	24.0	33.0
LnGrp LOS	D	D	В	D	23.7 C	23.0 C	D	Α	C	50.4 E	C C	C
Approach Vol, veh/h		831			351			49			453	
Approach Delay, s/veh		38.9			25.5			36.9			44.9	
Approach LOS		J0.7			23.3 C			J0.7			44.7 D	
											U	
Timer - Assigned Phs	1	2	3	4	5	6	7	8				
Phs Duration (G+Y+Rc)		39.8	19.2	15.5	18.1	30.0	9.3	25.4				
Change Period (Y+Rc),		6.5	5.5	5.5	6.5	6.5	5.5	5.5				
Max Green Setting (Gm	, ,	40.0	15.0	15.0	15.0	40.0	15.0	15.0				
Max Q Clear Time (g_c			13.7	3.2	11.6	11.4	3.2	13.5				
Green Ext Time (p_c), s	s 0.0	2.9	0.1	0.0	0.2	2.1	0.0	0.2				
Intersection Summary												
HCM 6th Ctrl Delay			37.7									
HCM 6th LOS			D									
Notes												

User approved pedestrian interval to be less than phase max green.
User approved volume balancing among the lanes for turning movement.

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	ሻ	† †	7	*	^	7	ሻ	f)			f)	
Traffic Volume (veh/h)	20	698	4	6	222	64	40	0	6	84	0	28
Future Volume (veh/h)	20	698	4	6	222	64	40	0	6	84	0	28
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approac	ch	No			No			No			No	
Adj Sat Flow, veh/h/ln	1678	1678	1678	1678	1678	1678	1678	1678	1678	1678	1678	1678
Adj Flow Rate, veh/h	22	759	4	7	241	70	43	0	7	91	0	30
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	15	15	15	15	15	15	15	15	15	15	15	15
Cap, veh/h	100	1887	842	14	1737	775	51	0	148	80	0	173
Arrive On Green	0.06	0.59	0.59	0.01	0.54	0.54	0.03	0.00	0.10	0.05	0.00	0.12
Sat Flow, veh/h	1598	3188	1422	1598	3188	1422	1598	0	1422	1598	0	1422
Grp Volume(v), veh/h	22	759	4	7	241	70	43	0	7	91	0	30
Grp Sat Flow(s), veh/h/l		1594	1422	1598	1594	1422	1598	0	1422	1598	0	1422
Q Serve(g_s), s	1.0	10.2	0.1	0.3	3.0	1.9	2.1	0.0	0.4	4.0	0.0	1.5
Cycle Q Clear(g_c), s	1.0	10.2	0.1	0.3	3.0	1.9	2.1	0.0	0.4	4.0	0.0	1.5
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h		1887	842	14	1737	775	51	0	148	80	0	173
V/C Ratio(X)	0.22	0.40	0.00	0.49	0.14	0.09	0.84	0.00	0.05	1.14	0.00	0.17
Avail Cap(c_a), veh/h	100	1887	842	100	1737	775	80	0	427	80	0	428
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/ve		8.7	6.7	39.5	9.0	8.7	38.5	0.0	32.3	38.0	0.0	31.5
Incr Delay (d2), s/veh	1.1	0.6	0.0	23.3	0.2	0.2	35.3	0.0	0.1	143.2	0.0	0.5
Initial Q Delay(d3),s/vel		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),ve		2.9	0.0	0.2	0.9	0.6	1.3	0.0	0.1	4.7	0.0	0.5
Unsig. Movement Delay		1										
LnGrp Delay(d),s/veh	36.7	9.4	6.7	62.7	9.1	8.9	73.8	0.0	32.4	181.2	0.0	32.0
LnGrp LOS	D	Α	Α	Е	Α	Α	Е	Α	С	F	Α	С
Approach Vol, veh/h		785			318			50			121	
Approach Delay, s/veh		10.1			10.3			68.0			144.2	
Approach LOS		В			В			Е			F	
Timer - Assigned Phs	1	2	3	4	5	6	7	8				
Phs Duration (G+Y+Rc) & ?	53.9	8.0	12.9	9.0	50.1	6.5	14.4				
Change Period (Y+Rc),		6.5	4.0	4.6	4.0	6.5	4.0	* 4.6				
Max Green Setting (Gr		27.4	4.0	24.0	5.0	27.9	4.0	* 24				
Max Q Clear Time (g_c			6.0	2.4	3.0	5.0	4.0	3.5				
Green Ext Time (p_c),		4.3	0.0	0.0	0.0	1.6	0.0	0.1				
	3 0.0	4.3	0.0	0.0	0.0	1.0	0.0	0.1				
Intersection Summary			2F 2									
HCM 6th Ctrl Delay			25.2									
HCM 6th LOS			С									
Notes												

^{*} HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

Intersection						
Int Delay, s/veh	0.1					
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	ħЪ			^		7
Traffic Vol, veh/h	783	5	0	292	0	10
Future Vol, veh/h	783	5	0	292	0	10
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	-	0
Veh in Median Storage,	# 0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	15	0	0	15	0	0
Mvmt Flow	851	5	0	317	0	11
Major/Minor Ma	ajor1	N	Major2	N	/linor1	
Conflicting Flow All	0	0	<u>-</u>		-	428
Stage 1	-	U	-	-	-	420
Stage 2		-		-	-	-
Stage 2 Critical Hdwy	-	-	-	-	-	6.9
	-	-	-	-	-	
Critical Hdwy Stg 1 Critical Hdwy Stg 2	-	-	-	-	-	-
	-	-	-	-	-	2 2
Follow-up Hdwy	-	-	-	-	-	3.3 581
Pot Cap-1 Maneuver	-	-	0	-	0	
Stage 1	-	-		-	0	-
Stage 2	-	-	0	-	0	-
Platoon blocked, %	-	-		-		F04
Mov Cap-1 Maneuver	-	-	-	-	-	581
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Approach	EB		WB		NB	
HCM Control Delay, s	0		0		11.3	
HCM LOS	0		- 0		В	
TIOWI LOS					U	
Minor Lane/Major Mvmt	1	VBLn1	EBT	EBR	WBT	
Capacity (veh/h)		581	-	-	-	
HCM Lane V/C Ratio		0.019	-	-	-	
HCM Control Delay (s)		11.3	-	-	-	
HCM Lane LOS		В	-	-	-	
HCM 95th %tile Q(veh)		0.1	-	-	-	

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Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	^	7	ሻ	† †	¥	
Traffic Volume (veh/h)	789	4	0	280	12	0
Future Volume (veh/h)	789	4	0	280	12	0
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00	1.00		1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No			No	No	
Adj Sat Flow, veh/h/ln	1678	418	418	1678	418	418
Adj Flow Rate, veh/h	858	4	0	304	4	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	15	100	100	15	100	100
Cap, veh/h	1677	186	2	1677	9999	9999
Arrive On Green	0.53	0.53	0.00	0.53	0.01	0.01
Sat Flow, veh/h	3272	354	398	432217121 20	0 612341647 0	205440
Grp Volume(v), veh/h	858	4	0	304	4	1
Grp Sat Flow(s), veh/h/ln	1594	354	398	1594	398	354
Q Serve(g_s), s	4.0	0.1	0.0	1.1	0.0	0.0
Cycle Q Clear(g_c), s	4.0	0.1	0.0	1.1	0.0	0.0
Prop In Lane		1.00	1.00		1.00	1.00
Lane Grp Cap(c), veh/h	1677	186	2	1 65779 81	107 61483 8	364800
V/C Ratio(X)	0.51	0.02	0.00	0.18	0.00	0.00
Avail Cap(c_a), veh/h	3982	443	70		1 <i>6</i> 120621405	470976
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	0.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	3.5	2.6	0.0	2.8	0.0	0.0
Incr Delay (d2), s/veh	0.2	0.0	0.0	0.1	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.1	0.0	0.0	0.0	0.0	0.0
Unsig. Movement Delay, s/veh						
LnGrp Delay(d),s/veh	3.7	2.6	0.0	2.9	0.0	0.0
LnGrp LOS	Α	Α	Α	Α	А	Α
Approach Vol, veh/h	862			304	5	
Approach Delay, s/veh	3.7			2.9	0.0	
Approach LOS	Α			Α	A	
						,
Timer - Assigned Phs	1	2		4		6
Phs Duration (G+Y+Rc), s	0.0	18.5		4.3		18.5
Change Period (Y+Rc), s	4.0	6.5		4.0		6.5
Max Green Setting (Gmax), s	4.0	28.5		18.0		36.5
Max Q Clear Time (g_c+I1), s	0.0	6.0		2.0		3.1
Green Ext Time (p_c), s	0.0	5.8		0.0		1.9
Intersection Summary						
HCM 6th Ctrl Delay			3.5			
HCM 6th LOS			Α			

	۶	→	*	•	←	•	4	†	/	/	ţ	4	
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	ķ	f)		ř	f)			4			4		
Traffic Volume (veh/h)	16	725	1	4	263	25	2	0	1	14	0	1	
Future Volume (veh/h)	16	725	1	4	263	25	2	0	1	14	0	1	
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approach	h	No			No			No			No		
Adj Sat Flow, veh/h/ln	1752	1870	1752	1752	1870	1752	1752	1752	1752	1752	1752	1752	
Adj Flow Rate, veh/h	19	873	1	5	317	30	2	0	1	17	0	1	
Peak Hour Factor	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	
Percent Heavy Veh, %	10	2	10	10	2	10	10	10	10	10	10	10	
Cap, veh/h	32	1006	1	9	884	84	3	0	2	28	0	2	
Arrive On Green	0.02	0.54	0.54	0.01	0.53	0.53	0.00	0.00	0.00	0.02	0.00	0.02	
Sat Flow, veh/h	1668	1868	2	1668	1682	159	1068	0	534	1565	0	92	
Grp Volume(v), veh/h	19	0	874	5	0	347	3	0	0	18	0	0	
Grp Sat Flow(s), veh/h/lr	11668	0	1870	1668	0	1842	1602	0	0	1657	0	0	
Q Serve(g_s), s	0.5	0.0	16.8	0.1	0.0	4.6	0.1	0.0	0.0	0.4	0.0	0.0	
Cycle Q Clear(g_c), s	0.5	0.0	16.8	0.1	0.0	4.6	0.1	0.0	0.0	0.4	0.0	0.0	
Prop In Lane	1.00		0.00	1.00		0.09	0.67		0.33	0.94		0.06	
Lane Grp Cap(c), veh/h	32	0	1007	9	0	967	5	0	0	30	0	0	
V/C Ratio(X)	0.60	0.00	0.87	0.56	0.00	0.36	0.57	0.00	0.00	0.60	0.00	0.00	
Avail Cap(c_a), veh/h	161	0	1354	161	0	1334	155	0	0	160	0	0	
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Upstream Filter(I)	1.00	0.00	1.00	1.00	0.00	1.00	1.00	0.00	0.00	1.00	0.00	0.00	
Uniform Delay (d), s/veh	120.2	0.0	8.3	20.6	0.0	5.8	20.6	0.0	0.0	20.2	0.0	0.0	
Incr Delay (d2), s/veh	16.9	0.0	4.8	44.1	0.0	0.2	71.9	0.0	0.0	17.8	0.0	0.0	
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%), veh		0.0	5.4	0.2	0.0	1.2	0.1	0.0	0.0	0.3	0.0	0.0	
Unsig. Movement Delay		1											
LnGrp Delay(d),s/veh	37.1	0.0	13.1	64.7	0.0	6.0	92.6	0.0	0.0	38.0	0.0	0.0	
LnGrp LOS	D	Α	В	Е	Α	Α	F	Α	Α	D	Α	Α	
Approach Vol, veh/h		893			352			3			18		
Approach Delay, s/veh		13.6			6.8			92.6			38.0		
Approach LOS		В			Α			F			D		
Timer - Assigned Phs	1	2		4	5	6		8					
Phs Duration (G+Y+Rc)	\$4.2	28.3		4.1	4.8	27.8		4.7					
Change Period (Y+Rc),		6.0		4.0	4.0	6.0		4.0					
Max Green Setting (Gm		30.0		4.0	4.0	30.0		4.0					
Max Q Clear Time (g_c-		18.8		2.1	2.5	6.6		2.4					
Green Ext Time (p_c), s		3.6		0.0	0.0	1.4		0.0					
Intersection Summary	0.0	3.0		3.0	3.0			3.0					
			12.2										
HCM 6th Ctrl Delay			12.2										
HCM 6th LOS			В										

	۶	\searrow	1	†	↓	4
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	*	7	ች	†	f)	
Traffic Volume (veh/h)	202	533	232	172	199	60
Future Volume (veh/h)	202	533	232	172	199	60
Initial Q (Qb), veh	0	0	0	0	0	0
	1.00	1.00	1.00			1.00
	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	n No			No	No	
	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	222	586	255	189	219	66
	0.91	0.91	0.91	0.91	0.91	0.91
Percent Heavy Veh, %	2	2	2	2	2	2
Cap, veh/h	696	619	306	831	262	79
	0.39	0.39	0.17	0.44	0.19	0.19
	1781	1585	1781	1870	1380	416
Grp Volume(v), veh/h	222	586	255	189	0	285
Grp Sat Flow(s), veh/h/ln		1585	1781	1870	0	1796
Q Serve(q_s), s	6.8	28.1	10.9	4.9	0.0	12.0
Cycle Q Clear(g_c), s	6.8	28.1	10.7	4.9	0.0	12.0
	1.00	1.00	1.00	4.7	0.0	0.23
Lane Grp Cap(c), veh/h		619	306	831	0	341
. ,	0.32	0.95	0.83	0.23	0.00	0.84
Avail Cap(c_a), veh/h	713	635	509	1319	1.00	605
	1.00	1.00	1.00	1.00	1.00	1.00
1 \	1.00	1.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh		23.2	31.5	13.5	0.0	30.7
Incr Delay (d2), s/veh	0.3	23.1	5.9	0.1	0.0	5.4
Initial Q Delay(d3),s/veh		0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%), veh		24.6	5.0	2.0	0.0	5.5
Unsig. Movement Delay,						
, , , , , , , , , , , , , , , , , , ,	16.9	46.2	37.4	13.7	0.0	36.2
LnGrp LOS	В	D	D	В	<u> </u>	D
Approach Vol, veh/h	808			444	285	
Approach Delay, s/veh	38.2			27.3	36.2	
Approach LOS	D			С	D	
Timer - Assigned Phs		2		4	5	6
Phs Duration (G+Y+Rc),	S	41.4		37.2	20.0	21.4
Change Period (Y+Rc),		6.5		6.5	6.5	6.5
Max Green Setting (Gma		55.5		31.5	22.5	26.5
Max Q Clear Time (q_c+		6.9		30.1	12.9	14.0
		0.7		0.6	0.7	0.9
				0.0	0.7	0.9
Green Ext Time (p_c), s		0.7				
Intersection Summary		0.7				
		0.7	34.7			

Intersection						
Int Delay, s/veh	4					
		WDD	NDT	NDD	CDI	CDT
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	\	75	}	0	225	4
Traffic Vol. veh/h	26	75 75	306	0	225	510
Future Vol, veh/h	26	75	306	0	225	510
Conflicting Peds, #/hr	0 Stop	O Ctop	0 Fron	0 Fron	0 Fron	0 Froo
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage		-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	90	90	90	90	90	90
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	29	83	340	0	250	567
Major/Minor I	Minor1	N	Major1	ľ	Major2	
Conflicting Flow All	1407	340	0	0	340	0
Stage 1	340	-	-	-	-	-
Stage 2	1067	-	-	_	_	-
Critical Hdwy	6.42	6.22	-	-	4.12	-
Critical Hdwy Stg 1	5.42	-	_	_	_	_
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	-	-	2.218	-
Pot Cap-1 Maneuver	153	702	-	-	1219	-
Stage 1	721	-	_	_	-	-
Stage 2	331	-	-	-	-	-
Platoon blocked, %	- 50 1		_	_		_
Mov Cap-1 Maneuver	107	702	-	-	1219	-
Mov Cap-2 Maneuver	107	-	_	_	- 1217	-
Stage 1	721	_	-	_	_	-
Stage 2	232	_	_	_	_	_
Jiago Z	202					
Approach	WB		NB		SB	
HCM Control Delay, s	25.2		0		2.7	
HCM LOS	D					
Minor Lane/Major Mvm	nt	NBT	NRRV	VBLn1	SBL	SBT
Capacity (veh/h)	it.	ושוו	- INDIXI		1219	JD1 -
HCM Lane V/C Ratio		-		0.388		-
HCM Control Delay (s)		-	-		8.7	0
HCM Lane LOS		-		25.2 D	0.7 A	
		-	-			Α
HCM 95th %tile Q(veh)			1.8	0.8	_

Intersection												
Int Delay, s/veh	14.7											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			4			(î			4	
Traffic Vol, veh/h	0	0	0	48	0	233	0	20	24	492	25	0
Future Vol, veh/h	0	0	0	48	0	233	0	20	24	492	25	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage	e,# -	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	89	89	89	89	89	89	89	89	89	89	89	89
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	0	0	0	54	0	262	0	22	27	553	28	0
Major/Minor	Minor2			Minor1		N	/lajor1		ľ	Major2		
Conflicting Flow All	1301	1183	28	1170	1170	36	-	0	0	49	0	0
Stage 1	1134	1134	-	36	36	-	-	-	-	-	-	-
Stage 2	167	49	-	1134	1134	-	-	-	-	-	-	-
Critical Hdwy	7.12	6.52	6.22	7.12	6.52	6.22	-	-	-	4.12	-	-
Critical Hdwy Stg 1	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-
Follow-up Hdwy	3.518	4.018	3.318	3.518	4.018	3.318	-	-	-	2.218	-	-
Pot Cap-1 Maneuver	138	189	1047	170	193	1037	0	-	-	1558	-	0
Stage 1	246	278	-	980	865	-	0	-	-	-	-	0
Stage 2	835	854	-	246	278	-	0	-	-	-	-	0
Platoon blocked, %								-	-		-	
Mov Cap-1 Maneuver	74	121	1047	122	123	1037	-	-	-	1558	-	-
Mov Cap-2 Maneuver	74	121	-	122	123	-	-	-	-	-	-	-
Stage 1	246	178	-	980	865	-	-	-	-	-	-	-
Stage 2	624	854	-	157	178	-	-	-	-	-	-	-
Approach	EB			WB			NB			SB		
HCM Control Delay, s	0			29			0			8.2		
HCM LOS	Α			D								
Minor Lane/Major Mvn	nt	NBT	NBR	EBLn1V	WBLn1	SBL	SBT					
Capacity (veh/h)		-	-	-	455	1558	-					
HCM Lane V/C Ratio		-	-	-	0.694	0.355	-					
HCM Control Delay (s))	-	-	0	29	8.6	0					
HCM Lane LOS		-	-	Α	D	Α	Α					
HCM 95th %tile Q(veh	1)	-	-	-	5.2	1.6	-					



E. Background Plus Project Conditions (Mitigated) Synchro Outputs

BKGPP(MIT) Timing Plan: AM Peak

Movement EBL EBT EBR WBL WBL WBL NBL NBT NBR SBL SBR SBR Lane Configurations The state of th		•	→	•	•	←	•	4	†	<i>></i>	/	ţ	4
Traffic Volume (veh/h) 0 0 0 871 323 178 25 241 0 0 807 656 initial Q (Qb), veh 0 0 0 871 323 178 25 241 0 0 807 656 initial Q (Qb), veh 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Future Volume (vehhh) 0 0 0 871 323 178 25 241 0 0 807 656 notial Q (Qb), veh 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0					76	र्स	77		^	77		1111	
Initial Q (Qb), veh										0	0		
Ped-Bike Adji(A, pbT)	, ,	0	0	0									
Parking Bus, Adj 1,00 1,						0			0			0	
Work Zone On Approach													
Adj Sat Flow, veh/h/ln 1678 1678 1678 1678 1678 1678 0 1678 1678 Adj Flow Rate, veh/h 916 413 0 27 265 0 0 887 0 Peak Hour Factor 0.91 <					1.00		1.00	1.00		1.00	1.00		1.00
Adj Flow Rate, veh/h	• • • • • • • • • • • • • • • • • • • •												
Peak Hour Factor 0.91 0.											0		1678
Percent Heavy Veh, % 15 15 15 15 15 15 15													
Cap, veh/h 1365 668 144 894 0 1828 Arrive On Green 0.43 0.40 0.00 0.32 0.00 0.00 0.32 0.00 0.02 0.00 0.00 0.32 0.00 0.00 0.32 0.00 0.00 0.32 0.00 0.00 0.32 0.00 0.00 0.32 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 887 0 Gry Sat Flow(s), veh/h 916 413 0 154 138 0 0 887 0 Gry Sat Flow(s), veh/h/h 1598 1678 1422 1475 1450 1251 0 1443 1422 Q Seve(g.s.), s 8.7 7.4 0.0 0.0 2.7 0.0 0.0 4.7 0.0 Cycle Q Clear(g.s.) 8.7 7.4 0.0 0.0 2.7 0.0 0.0 4.7 0.0 Lance													
Arrive On Green							15			15			15
Sat Flow, veh/h 916													
Grp Volume(v), veh/h 916 413 0 154 138 0 0 887 0 Grp Sat Flow(s), veh/h/ln 1598 1678 1422 1475 1450 1251 0 1443 1422 Q Serve(g_s), s 8.7 7.4 0.0 0.0 2.7 0.0 0.0 4.7 0.0 Cycle Q Clear(g_c), s 8.7 7.4 0.0 0.6 2.7 0.0 0.0 4.7 0.0 Prop In Lane 1.00 1.00 1.00 1.00 0.18 1.00 0.00 4.7 0.0 Lane Grp Cap(c), veh/h 1385 668 579 459 0 1828 V/C Ratio(X) 0.67 0.62 0.27 0.30 0.00 0.0 1.00 Avail Cap(c_a), veh/h 2193 1103 1640 1696 0 3550 HCM Platoon Ratio 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00											0.00		
Grp Sat Flow(s), veh/h/ln 1598 1678 1422 1475 1450 1251 0 1443 1422 Q Serve(g_s), s 8.7 7.4 0.0 0.0 2.7 0.0 0.0 4.7 0.0 Cycle Q Clear(g_c), s 8.7 7.4 0.0 2.6 2.7 0.0 0.0 4.7 0.0 Prop In Lane 1.00 1.00 1.00 0.18 1.00 0.00 1.00 Lane Grp Cap(c), veh/h 1365 668 579 459 0 1828 V/C Ratio(X) 0.67 0.62 0.27 0.30 0.00 0.0 Avail Cap(c_a), veh/h 2193 1103 1640 1696 0 3550 HCM Platoon Ratio 1.00 1.0 1.0 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>2844</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1422</td>							2844						1422
Serve(g_s), s 8.7 7.4 0.0 0.0 2.7 0.0 0.0 4.7 0.0											0		
Cycle Q Clear(g_c), s 8.7 7.4 0.0 2.6 2.7 0.0 0.0 4.7 0.0 Prop In Lane 1.00 1.00 1.00 0.18 1.00 0.00 1.00 Lane Grp Cap(c), veh/h 1365 668 579 459 0 1828 V/C Ratio(X) 0.67 0.62 0.27 0.30 0.00 0.49 Avail Cap(c_a), veh/h 2193 1103 1640 1696 0 3550 HCM Platoon Ratio 1.00	Grp Sat Flow(s),veh/h/ln							1475		1251			1422
Prop In Lane	Q Serve(g_s), s				8.7		0.0	0.0	2.7	0.0	0.0	4.7	0.0
Lane Grp Cap(c), veh/h 1365 668 579 459 0 1828 V/C Ratio(X) 0.67 0.62 0.27 0.30 0.00 0.49 Avail Cap(c_a), veh/h 2193 1103 1640 1696 0 3550 HCM Platoon Ratio 1.00 0.00 0.00 1.00 1.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	Cycle Q Clear(g_c), s				8.7	7.4	0.0	2.6	2.7	0.0	0.0	4.7	0.0
V/C Ratio(X) 0.67 0.62 0.27 0.30 0.00 0.49 Avail Cap(c_a), veh/h 2193 1103 1640 1696 0 3550 HCM Platoon Ratio 1.00 1.0 <t< td=""><td>Prop In Lane</td><td></td><td></td><td></td><td>1.00</td><td></td><td>1.00</td><td>0.18</td><td></td><td>1.00</td><td>0.00</td><td></td><td>1.00</td></t<>	Prop In Lane				1.00		1.00	0.18		1.00	0.00		1.00
Avail Cap(c_a), veh/h	Lane Grp Cap(c), veh/h				1365	668		579	459		0	1828	
HCM Platon Ratio	V/C Ratio(X)				0.67	0.62		0.27	0.30		0.00	0.49	
Upstream Filter(I)	Avail Cap(c_a), veh/h				2193	1103		1640	1696		0	3550	
Uniform Delay (d), s/veh 8.7 9.1 0.0 9.7 9.8 0.0 0.0 10.4 0.0 Incr Delay (d2), s/veh 0.4 0.6 0.0 0.1 0.1 0.0 0.0 0.1 0.0	HCM Platoon Ratio				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Incr Delay (d2), s/veh	Upstream Filter(I)				1.00	1.00	0.00	1.00	1.00	0.00	0.00	1.00	0.00
Initial Q Delay(d3),s/veh	Uniform Delay (d), s/veh				8.7	9.1	0.0	9.7	9.8	0.0	0.0	10.4	0.0
%ile BackOfQ(50%),veh/ln 2.1 2.0 0.0 0.7 0.7 0.0 0.0 1.1 0.0 Unsig. Movement Delay, s/veh 9.1 9.7 0.0 9.8 9.9 0.0 0.0 10.5 0.0 LnGrp LOS A A A A A A A B Approach Vol, veh/h 1329 A 292 A 887 A Approach Delay, s/veh 9.3 9.9 10.5 A B Timer - Assigned Phs 2 6 8 B B Timer - Assigned Phs 2 6 8 B B Phs Duration (G+Y+Rc), s 17.7 17.7 20.2 Change Period (Y+Rc), s 5.7 5.7 5.1 Max Green Setting (Gmax), s 44.3 23.3 24.9 Max Q Clear Time (g_c+l1), s 4.7 6.7 10.7 Green Ext Time (p_c), s 0.8 2.6 4.4 Intersection Summary HCM 6th Ctrl Delay 9.8	Incr Delay (d2), s/veh				0.4	0.6	0.0	0.1	0.1	0.0	0.0	0.1	0.0
Unsig. Movement Delay, s/veh LnGrp Delay(d),s/veh LnGrp LOS A A A A A A A B Approach Vol, veh/h Approach Delay, s/veh Approach LOS Approach LOS Approach LOS A A A A B Approach LOS A A A B Approach LOS A B Timer - Assigned Phs 2 6 8 Phs Duration (G+Y+Rc), s 17.7 17.7 20.2 Change Period (Y+Rc), s 5.7 5.1 Max Green Setting (Gmax), s 44.3 23.3 24.9 Max Q Clear Time (g_c+11), s 4.7 6.7 10.7 Green Ext Time (p_c), s 0.8 2.6 4.4 Intersection Summary HCM 6th Ctrl Delay 9.8	Initial Q Delay(d3),s/veh				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LnGrp Delay(d),s/veh 9.1 9.7 0.0 9.8 9.9 0.0 0.0 10.5 0.0 LnGrp LOS A A A A A A B Approach Vol, veh/h 1329 A 292 A 887 A Approach Delay, s/veh 9.3 9.9 10.5 A Approach LOS A A A B Timer - Assigned Phs 2 6 8 Phs Duration (G+Y+Rc), s 17.7 17.7 20.2 Change Period (Y+Rc), s 5.7 5.7 5.1 Max Green Setting (Gmax), s 44.3 23.3 24.9 Max Q Clear Time (g_c+l1), s 4.7 6.7 10.7 Green Ext Time (p_c), s 0.8 2.6 4.4 Intersection Summary HCM 6th Ctrl Delay 9.8	%ile BackOfQ(50%),veh/ln				2.1	2.0	0.0	0.7	0.7	0.0	0.0	1.1	0.0
LnGrp LOS A A A A B Approach Vol, veh/h 1329 A 292 A 887 A Approach Delay, s/veh 9.3 9.9 10.5 Approach LOS A A B Timer - Assigned Phs 2 6 8 Phs Duration (G+Y+Rc), s 17.7 17.7 20.2 Change Period (Y+Rc), s 5.7 5.7 5.1 Max Green Setting (Gmax), s 44.3 23.3 24.9 Max Q Clear Time (g_c+l1), s 4.7 6.7 10.7 Green Ext Time (p_c), s 0.8 2.6 4.4 Intersection Summary HCM 6th Ctrl Delay 9.8													
Approach Vol, veh/h 1329 A 292 A 887 A Approach Delay, s/veh 9.3 9.9 10.5 Approach LOS A A B Timer - Assigned Phs 2 6 8 Phs Duration (G+Y+Rc), s 17.7 17.7 20.2 Change Period (Y+Rc), s 5.7 5.7 5.1 Max Green Setting (Gmax), s 44.3 23.3 24.9 Max Q Clear Time (g_c+l1), s 4.7 6.7 10.7 Green Ext Time (p_c), s 0.8 2.6 4.4 Intersection Summary HCM 6th Ctrl Delay 9.8							0.0	9.8	9.9	0.0	0.0	10.5	0.0
Approach Delay, s/veh 9.3 9.9 10.5 Approach LOS A A B Timer - Assigned Phs 2 6 8 Phs Duration (G+Y+Rc), s 17.7 17.7 20.2 Change Period (Y+Rc), s 5.7 5.7 5.1 Max Green Setting (Gmax), s 44.3 23.3 24.9 Max Q Clear Time (g_c+l1), s 4.7 6.7 10.7 Green Ext Time (p_c), s 0.8 2.6 4.4 Intersection Summary HCM 6th Ctrl Delay 9.8	LnGrp LOS				Α	Α		Α	Α		Α	В	
Approach LOS A A B Timer - Assigned Phs 2 6 8 Phs Duration (G+Y+Rc), s 17.7 17.7 20.2 Change Period (Y+Rc), s 5.7 5.7 5.1 Max Green Setting (Gmax), s 44.3 23.3 24.9 Max Q Clear Time (g_c+l1), s 4.7 6.7 10.7 Green Ext Time (p_c), s 0.8 2.6 4.4 Intersection Summary HCM 6th Ctrl Delay 9.8	Approach Vol, veh/h					1329	Α		292	Α		887	Α
Timer - Assigned Phs 2 6 8 Phs Duration (G+Y+Rc), s 17.7 17.7 20.2 Change Period (Y+Rc), s 5.7 5.7 5.1 Max Green Setting (Gmax), s 44.3 23.3 24.9 Max Q Clear Time (g_c+l1), s 4.7 6.7 10.7 Green Ext Time (p_c), s 0.8 2.6 4.4 Intersection Summary HCM 6th Ctrl Delay 9.8	Approach Delay, s/veh					9.3			9.9			10.5	
Phs Duration (G+Y+Rc), s 17.7 20.2 Change Period (Y+Rc), s 5.7 5.7 5.1 Max Green Setting (Gmax), s 44.3 23.3 24.9 Max Q Clear Time (g_c+I1), s 4.7 6.7 10.7 Green Ext Time (p_c), s 0.8 2.6 4.4 Intersection Summary HCM 6th Ctrl Delay 9.8	Approach LOS					Α			Α			В	
Change Period (Y+Rc), s 5.7 5.7 5.1 Max Green Setting (Gmax), s 44.3 23.3 24.9 Max Q Clear Time (g_c+l1), s 4.7 6.7 10.7 Green Ext Time (p_c), s 0.8 2.6 4.4 Intersection Summary HCM 6th Ctrl Delay 9.8	Timer - Assigned Phs		2				6		8				
Max Green Setting (Gmax), s 44.3 23.3 24.9 Max Q Clear Time (g_c+l1), s 4.7 6.7 10.7 Green Ext Time (p_c), s 0.8 2.6 4.4 Intersection Summary HCM 6th Ctrl Delay 9.8	Phs Duration (G+Y+Rc), s		17.7				17.7		20.2				
Max Q Clear Time (g_c+I1), s 4.7 6.7 10.7 Green Ext Time (p_c), s 0.8 2.6 4.4 Intersection Summary HCM 6th Ctrl Delay 9.8	Change Period (Y+Rc), s		5.7				5.7		5.1				
Max Q Clear Time (g_c+I1), s 4.7 6.7 10.7 Green Ext Time (p_c), s 0.8 2.6 4.4 Intersection Summary HCM 6th Ctrl Delay 9.8	. ,		44.3				23.3		24.9				
Green Ext Time (p_c), s 0.8 2.6 4.4 Intersection Summary HCM 6th Ctrl Delay 9.8													
HCM 6th Ctrl Delay 9.8			0.8				2.6		4.4				
,	Intersection Summary												
HCM 6th LOS A	HCM 6th Ctrl Delay			9.8									
	HCM 6th LOS			Α									

User approved volume balancing among the lanes for turning movement.

Unsignalized Delay for [NBR, WBR, SBR] is excluded from calculations of the approach delay and intersection delay.

BKGPP(MIT)
Timing Plan: AM Peak

J	k	→	•	•	←	•	•	†	<u> </u>	>	↓	✓	
Movement EE	3L	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
		^	7	*	^	7	ሻ	1		ች	†	7	
	16	395	19	8	662	151	15	5	10	113	9	184	
, ,	16	395	19	8	662	151	15	5	10	113	9	184	
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0	
Ped-Bike Adj(A_pbT) 1.0			1.00	1.00		1.00	1.00		1.00	1.00		1.00	
Parking Bus, Adj 1.0	00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approach		No			No			No			No		
Adj Sat Flow, veh/h/ln 167	78	1678	1678	1678	1678	1678	1678	1678	1678	1678	1678	1678	
	38	470	23	10	788	180	18	6	12	135	11	219	
Peak Hour Factor 0.8	34	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	
Percent Heavy Veh, %	15	15	15	15	15	15	15	15	15	15	15	15	
	30	1320	589	36	1033	461	60	66	132	180	347	294	
Arrive On Green 0.1	11	0.41	0.41	0.02	0.32	0.32	0.04	0.13	0.13	0.11	0.21	0.21	
Sat Flow, veh/h 159	98	3188	1422	1598	3188	1422	1598	499	999	1598	1678	1422	
	38	470	23	10	788	180	18	0	18	135	11	219	
Grp Sat Flow(s), veh/h/ln159		1594	1422	1598	1594	1422	1598	0	1498	1598	1678	1422	
	.3	7.6	0.7	0.5	16.7	7.4	0.8	0.0	0.8	6.2	0.4	10.9	
	5.3	7.6	0.7	0.5	16.7	7.4	0.8	0.0	0.8	6.2	0.4	10.9	
Prop In Lane 1.0			1.00	1.00		1.00	1.00		0.67	1.00		1.00	
Lane Grp Cap(c), veh/h 18	30	1320	589	36	1033	461	60	0	198	180	347	294	
V/C Ratio(X) 0.7		0.36	0.04	0.28	0.76	0.39	0.30	0.00	0.09	0.75	0.03	0.74	
Avail Cap(c_a), veh/h 20	01	1439	642	191	1418	632	191	0	573	301	757	642	
HCM Platoon Ratio 1.0	00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Upstream Filter(I) 1.0	00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	
Uniform Delay (d), s/veh 32	.5	15.2	13.1	36.2	22.9	19.7	35.3	0.0	28.7	32.4	23.8	28.0	
Incr Delay (d2), s/veh 14	.5	0.2	0.0	4.1	2.1	0.8	2.8	0.0	0.3	6.2	0.1	5.2	
Initial Q Delay(d3),s/veh 0	.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),veh/lr8	.0	2.4	0.2	0.2	5.8	2.4	0.4	0.0	0.3	2.6	0.2	4.0	
Unsig. Movement Delay, s/v	veh												
LnGrp Delay(d),s/veh 47	.0	15.4	13.2	40.3	25.0	20.5	38.1	0.0	29.0	38.6	23.9	33.2	
LnGrp LOS	D	В	В	D	С	С	D	Α	С	D	С	С	
Approach Vol, veh/h		631			978			36			365		
Approach Delay, s/veh		22.2			24.3			33.5			34.9		
Approach LOS		С			С			С			С		
Timer - Assigned Phs	1	2	3	4	5	6	7	8					
Phs Duration (G+Y+Rc), s8	.2	37.7	14.0	15.5	15.0	30.9	8.3	21.1					
Change Period (Y+Rc), s 6		6.5	5.5	5.5	6.5	6.5	5.5	5.5					
Max Green Setting (Gmax9)		34.0	14.2	28.8	9.5	33.5	9.0	34.0					
Max Q Clear Time (g_c+l12)		9.6	8.2	2.8	8.3	18.7	2.8	12.9					
Green Ext Time (p_c), s 0		3.3	0.2	0.0	0.0	5.7	0.0	1.4					
Intersection Summary													
HCM 6th Ctrl Delay			25.7										
HCM 6th LOS			С										
Notes													

User approved pedestrian interval to be less than phase max green.

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	ķ	f)		7	(Ť	ĥ		Ť	ĥ		
Traffic Volume (veh/h)	8	229	2	0	912	13	1	0	2	34	0	2	
Future Volume (veh/h)	8	229	2	0	912	13	1	0	2	34	0	2	
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approach	1	No			No			No			No		
Adj Sat Flow, veh/h/ln	1752	1870	1752	1752	1870	1752	1752	1752	1752	1752	1752	1752	
Adj Flow Rate, veh/h	11	309	3	0	1232	18	1	0	3	46	0	3	
	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	
Percent Heavy Veh, %	10	2	10	10	2	10	10	10	10	10	10	10	
Cap, veh/h	253	1392	14	148	1384	20	255	0	122	255	0	122	
	0.75	0.75	0.75	0.00	0.75	0.75	0.08	0.00	0.08	0.08	0.00	0.08	
Sat Flow, veh/h	416	1849	18	1000	1839	27	1324	0.00	1485	1324	0.00	1485	
Grp Volume(v), veh/h	11	0	312	0	0	1250	1	0	3	46	0	3	
Grp Sat Flow(s), veh/h/ln		0	1867	1000	0	1866	1324	0	1485	1324	0	1485	
Q Serve(g_s), s	1.0	0.0	2.4	0.0	0.0	24.4	0.0	0.0	0.1	1.6	0.0	0.1	
	25.4	0.0	2.4	0.0	0.0	24.4	0.0	0.0	0.1	1.7	0.0	0.1	
Prop In Lane	1.00	0.0	0.01	1.00	0.0	0.01	1.00	0.0	1.00	1.00	0.0	1.00	
Lane Grp Cap(c), veh/h		0	1405	148	0	1404	255	0	122	255	0	122	
,	0.04	0.00	0.22	0.00	0.00	0.89	0.00	0.00	0.02	0.18	0.00	0.02	
Avail Cap(c_a), veh/h	420	0.00	2154	549	0.00	2152	582	0.00	489	582	0.00	489	
	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Upstream Filter(I)	1.00	0.00	1.00	0.00	0.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00	
		0.00	1.00	0.00	0.00	4.5	20.5	0.00	20.5	21.3	0.00	20.5	
Uniform Delay (d), s/veh	0.1	0.0	0.1	0.0	0.0	3.3	0.0	0.0	0.1	0.3	0.0	0.1	
Incr Delay (d2), s/veh		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Initial Q Delay(d3),s/veh													
%ile BackOfQ(50%),veh		0.0	0.2	0.0	0.0	3.0	0.0	0.0	0.0	0.5	0.0	0.0	
Unsig. Movement Delay,			1.0	0.0	0.0	70	20 5	0.0	20 G	24.6	0.0	20.6	
• • • • • • • • • • • • • • • • • • • •	14.1	0.0	1.9	0.0	0.0	7.8	20.5	0.0	20.6	21.6	0.0	20.6	
LnGrp LOS	В	A	A	A	A	A	C	A	С	С	A 40	<u> </u>	
Approach Vol, veh/h		323			1250			4			49		
Approach Delay, s/veh		2.3			7.8			20.5			21.5		
Approach LOS		Α			Α			С			С		
Timer - Assigned Phs		2		4		6		8					
Phs Duration (G+Y+Rc),		8.0		40.5		8.0		40.5					
Change Period (Y+Rc), s		4.0		4.0		4.0		4.0					
Max Green Setting (Gma	ax), s	16.0		56.0		16.0		56.0					
Max Q Clear Time (g_c+	·11), s	2.1		27.4		3.7		26.4					
Green Ext Time (p_c), s		0.0		1.4		0.1		10.2					
Intersection Summary													
HCM 6th Ctrl Delay			7.2										
HCM 6th LOS			Α										

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Movement EB	L E	EBR	NBL	NBT	SBT	SBR
	<u>ነ</u>	7	ሻ	†	1	
	-	207	506	393	308	286
Future Volume (veh/h) 7		207	506	393	308	286
	0	0	0	0	0	0
Ped-Bike Adj(A_pbT) 1.0		1.00	1.00		<u> </u>	1.00
Parking Bus, Adj 1.0		1.00	1.00	1.00	1.00	1.00
Work Zone On Approach N			1.00	No	No	1.00
Adj Sat Flow, veh/h/ln 187		1870	1870	1870	1870	1870
Adj Flow Rate, veh/h 7		233	569	442	346	321
Peak Hour Factor 0.8		0.89	0.89	0.89	0.89	0.89
	2	2	2	2	2	2
Cap, veh/h 20		710	593	1446	344	319
Arrive On Green 0.1		0.12	0.33	0.77	0.39	0.39
		1585	1781	1870	893	828
Grp Volume(v), veh/h 7		233	569	442	0	667
Grp Sat Flow(s), veh/h/ln178		1585	1781	1870	0	1721
Q Serve(g_s), s 4.		11.1	36.6	8.2	0.0	45.0
Cycle Q Clear(g_c), s 4.		11.1	36.6	8.2	0.0	45.0
Prop In Lane 1.0	0 1	1.00	1.00			0.48
Lane Grp Cap(c), veh/h 20	6	710	593	1446	0	663
V/C Ratio(X) 0.3	8 (0.33	0.96	0.31	0.00	1.01
Avail Cap(c_a), veh/h 24	4	744	602	1456	0	663
HCM Platoon Ratio 1.0	0 1	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I) 1.0		1.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh 47.		20.9	38.2	3.9	0.0	35.9
Incr Delay (d2), s/veh 1.		0.3	26.8	0.1	0.0	36.6
Initial Q Delay(d3),s/veh 0.		0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/lr2.		11.8	20.1	2.6	0.0	25.1
Unsig. Movement Delay, s/v		11.0	20.1	2.0	0.0	20.1
		21.1	65.0	4.1	0.0	72.5
1 1 1		21.1 C				
	<u>D</u>	U	<u>E</u>	A 4044	A	F
Approach Vol, veh/h 31				1011	667	
Approach Delay, s/veh 28.				38.4	72.5	
Approach LOS	С			D	Е	
Timer - Assigned Phs		2		4	5	6
Phs Duration (G+Y+Rc), s	(96.9		20.0	45.4	51.5
Change Period (Y+Rc), s		6.5		6.5	6.5	6.5
Max Green Setting (Gmax),	. (91.0			39.5	45.0
				16.0		
Max Q Clear Time (g_c+l1),	S	10.2		13.1	38.6	47.0
Green Ext Time (p_c), s		2.0		0.4	0.3	0.0
Intersection Summary						
HCM 6th Ctrl Delay			48.2			
HCM 6th LOS			D			
TIOM OUT LOO			D			

	•	•	Ť	/	-	¥	
Movement	WBL	WBR	NBT	NBR	SBL	SBT	ĺ
Lane Configurations	W		†	7	ኘ	†	
Traffic Volume (veh/h)	53	296	561	1	125	390	
Future Volume (veh/h)	53	296	561	1	125	390	
Initial Q (Qb), veh	0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)	1.00	1.00		1.00	1.00		
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approac		1.00	No	1.00	1.00	No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	
Adj Flow Rate, veh/h	62	344	652	1	145	453	
Peak Hour Factor	0.86	0.86	0.86	0.86	0.86	0.86	
Percent Heavy Veh, %		2	2	2	2	2	
Cap, veh/h	69	385	732	620	185	1065	
Arrive On Green	0.28	0.28	0.39	0.39	0.10	0.57	
Sat Flow, veh/h	246	1363	1870	1585	1781	1870	
Grp Volume(v), veh/h	407	0	652	1	145	453	
Grp Sat Flow(s),veh/h/l		0	1870	1585	1781	1870	
Q Serve(g_s), s	13.1	0.0	17.6	0.0	4.3	7.4	
Cycle Q Clear(g_c), s	13.1	0.0	17.6	0.0	4.3	7.4	
Prop In Lane	0.15	0.85		1.00	1.00		
Lane Grp Cap(c), veh/h	ո 456	0	732	620	185	1065	
V/C Ratio(X)	0.89	0.00	0.89	0.00	0.78	0.43	
Avail Cap(c_a), veh/h	479	0	867	735	231	1249	
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	
Upstream Filter(I)	1.00	0.00	1.00	1.00	1.00	1.00	
Uniform Delay (d), s/ve		0.0	15.3	10.0	23.6	6.6	
Incr Delay (d2), s/veh	18.4	0.0	10.2	0.0	13.0	0.3	
, , ,							
Initial Q Delay(d3),s/vel		0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),ve		0.0	8.3	0.0	2.3	2.2	
Unsig. Movement Delay	•		05.5	40.0	00 -		
LnGrp Delay(d),s/veh	36.9	0.0	25.5	10.0	36.5	6.9	
LnGrp LOS	D	A	С	A	D	A	
Approach Vol, veh/h	407		653			598	
Approach Delay, s/veh	36.9		25.5			14.1	
Approach LOS	D		С			В	
Timer - Assigned Phs	1	2				6	
Phs Duration (G+Y+Rc		25.1				34.7	
Change Period (Y+Rc)		4.0				4.0	
Max Green Setting (Gn	nax " , &	25.0				36.0	
Max Q Clear Time (g_c		19.6				9.4	
Green Ext Time (p c),		1.5				1.9	
u = 77							
Intersection Summary							
HCM 6th Ctrl Delay			24.2				
HCM 6th LOS			С				

13. Laminers No.	au c	x vai	7100 1	wau									1111
	٠	→	•	•	←	•	4	†	/	/	↓	4	
lovement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
e Configurations		4			4			4		ሻ	f)		
ffic Volume (veh/h)	0	0	0	108	0	441	0	20	8	373	17	1	
ure Volume (veh/h)	0	0	0	108	0	441	0	20	8	373	17	1	
al Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0	
d-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00	
king Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
ork Zone On Approach	1	No			No			No			No		
Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	
Flow Rate, veh/h	0	0	0	129	0	525	0	24	10	444	20	1	
k Hour Factor	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	
cent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2	
p, veh/h	0	721	0	183	23	485	0	102	42	516	798	40	
	0.00	0.00	0.00	0.39	0.00	0.39	0.00	0.08	0.08	0.29	0.45	0.45	
t Flow, veh/h	0	1870	0	248	60	1256	0	1254	522	1781	1766	88	
o Volume(v), veh/h	0	0	0	654	0	0	0	0	34	444	0	21	
p Sat Flow(s),veh/h/ln	0	1870	0	1565	0	0	0	0	1776	1781	0	1854	
Serve(g_s), s	0.0	0.0	0.0	15.4	0.0	0.0	0.0	0.0	0.9	11.6	0.0	0.3	
cle Q Clear(g_c), s	0.0	0.0	0.0	19.0	0.0	0.0	0.0	0.0	0.9	11.6	0.0	0.3	
op In Lane	0.00		0.00	0.20		0.80	0.00		0.29	1.00		0.05	
ne Grp Cap(c), veh/h	0	721	0	691	0	0	0	0	144	516	0	838	
C Ratio(X)	0.00	0.00	0.00	0.95	0.00	0.00	0.00	0.00	0.24	0.86	0.00	0.03	
ail Cap(c_a), veh/h	0	721	0	691	0	0	0	0	613	615	0	1431	
M Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
stream Filter(I)	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	1.00	1.00	0.00	1.00	
iform Delay (d), s/veh	0.0	0.0	0.0	15.8	0.0	0.0	0.0	0.0	21.2	16.6	0.0	7.5	
r Delay (d2), s/veh	0.0	0.0	0.0	22.0	0.0	0.0	0.0	0.0	8.0	10.5	0.0	0.0	
ial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
e BackOfQ(50%),veh		0.0	0.0	10.4	0.0	0.0	0.0	0.0	0.4	5.5	0.0	0.1	
nsig. Movement Delay,													
Grp Delay(d),s/veh	0.0	0.0	0.0	37.8	0.0	0.0	0.0	0.0	22.0	27.0	0.0	7.5	
Grp LOS	Α	Α	Α	D	Α	Α	Α	Α	С	С	Α	Α	
proach Vol, veh/h		0			654			34			465		
proach Delay, s/veh		0.0			37.8			22.0			26.2		
proach LOS					D			С			С		
ner - Assigned Phs	1	2		4		6		8					
s Duration (G+Y+Rc),	\$8.3	8.0		23.0		26.3		23.0					
ange Period (Y+Rc),		4.0		4.0		4.0		4.0					
ax Green Setting (Gma		17.0		19.0		38.0		19.0					
x Q Clear Time (g_c+		2.9		0.0		2.3		21.0					
een Ext Time (p_c), s		0.0		0.0		0.0		0.0					
ersection Summary													
			30.6										
CM 6th Ctrl Delay CM 6th LOS			32.6 C										
DIVI O(II LUO			C										

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	ၨ	→	\rightarrow	•	←	•	4	†	/	>	ļ	4
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations				44	ર્ન	77		^	77		1111	7
Traffic Volume (veh/h)	0	0	0	428	4	301	37	457	0	0	532	34
Future Volume (veh/h)	0	0	0	428	4	301	37	457	0	0	532	34
Initial Q (Qb), veh				0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)				1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach					No			No			No	
Adj Sat Flow, veh/h/ln				1678	1678	1678	1678	1678	1678	0	1678	1678
Adj Flow Rate, veh/h				468	0	0	40	497	0	0	578	0
Peak Hour Factor				0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %				15	15	15	15	15	15	0	15	15
Cap, veh/h				1400	0		174	1136		0	2259	
Arrive On Green				0.29	0.00	0.00	0.39	0.39	0.00	0.00	0.39	0.00
Sat Flow, veh/h				4793	0	2844	101	2902	2502	0	6006	1422
Grp Volume(v), veh/h				468	0	0	284	253	0	0	578	0
Grp Sat Flow(s),veh/h/ln				1598	0	1422	1553	1450	1251	0	1443	1422
Q Serve(g_s), s				2.3	0.0	0.0	0.0	3.9	0.0	0.0	2.1	0.0
Cycle Q Clear(g_c), s				2.3	0.0	0.0	3.8	3.9	0.0	0.0	2.1	0.0
Prop In Lane				1.00	0.0	1.00	0.14	0.0	1.00	0.00		1.00
Lane Grp Cap(c), veh/h				1400	0		742	568		0	2259	
V/C Ratio(X)				0.33	0.00		0.38	0.45		0.00	0.26	
Avail Cap(c_a), veh/h				4066	0		2247	2096		0	4387	
HCM Platoon Ratio				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)				1.00	0.00	0.00	1.00	1.00	0.00	0.00	1.00	0.00
Uniform Delay (d), s/veh				8.5	0.0	0.0	6.8	6.9	0.0	0.0	6.3	0.0
Incr Delay (d2), s/veh				0.1	0.0	0.0	0.1	0.2	0.0	0.0	0.0	0.0
Initial Q Delay(d3),s/veh				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln				0.6	0.0	0.0	0.8	0.7	0.0	0.0	0.4	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh				8.6	0.0	0.0	6.9	7.1	0.0	0.0	6.3	0.0
LnGrp LOS				Α	Α		Α	Α		Α	Α	
Approach Vol, veh/h					468	Α		537	Α		578	Α
Approach Delay, s/veh					8.6			7.0			6.3	
Approach LOS					Α			A			Α	
Timer - Assigned Phs		2				6		8				
Phs Duration (G+Y+Rc), s		17.7				17.7		13.0				
Change Period (Y+Rc), s		5.7				5.7		5.1				
Max Green Setting (Gmax), s		44.3				23.3		24.9				
Max Q Clear Time (g_c+l1), s		5.9				4.1		4.3				
Green Ext Time (p_c), s		1.3				1.7		1.7				
. ,		1.0						1.1				
Intersection Summary			7.0									
HCM 6th Ctrl Delay			7.2									
HCM 6th LOS			Α									

User approved volume balancing among the lanes for turning movement.

Unsignalized Delay for [NBR, WBR, SBR] is excluded from calculations of the approach delay and intersection delay.

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	ሻ	^	7	ሻ	^	7	ሻ	f.		ሻ	†	7	
Traffic Volume (veh/h)	159	513	26	8	192	94	20	6	15	194	2	185	
Future Volume (veh/h)	159	513	26	8	192	94	20	6	15	194	2	185	
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approac	ch	No			No			No			No		
Adj Sat Flow, veh/h/ln	1678	1678	1678	1678	1678	1678	1678	1678	1678	1678	1678	1678	
Adj Flow Rate, veh/h	189	611	31	10	229	112	24	7	18	231	2	220	
Peak Hour Factor	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	
Percent Heavy Veh, %	15	15	15	15	15	15	15	15	15	15	15	15	
Cap, veh/h	225	943	421	36	567	253	77	61	158	284	465	394	
Arrive On Green	0.14	0.30	0.30	0.02	0.18	0.18	0.05	0.15	0.15	0.18	0.28	0.28	
Sat Flow, veh/h	1598	3188	1422	1598	3188	1422	1598	416	1069	1598	1678	1422	
Grp Volume(v), veh/h	189	611	31	10	229	112	24	0	25	231	2	220	
Grp Sat Flow(s),veh/h/h		1594	1422	1598	1594	1422	1598	0	1485	1598	1678	1422	
Q Serve(g_s), s	7.8	11.3	1.1	0.4	4.3	4.7	1.0	0.0	1.0	9.4	0.1	8.9	
Cycle Q Clear(g_c), s	7.8	11.3	1.1	0.4	4.3	4.7	1.0	0.0	1.0	9.4	0.1	8.9	
Prop In Lane	1.00		1.00	1.00		1.00	1.00	0.0	0.72	1.00	•	1.00	
Lane Grp Cap(c), veh/h		943	421	36	567	253	77	0	219	284	465	394	
V/C Ratio(X)	0.84	0.65	0.07	0.27	0.40	0.44	0.31	0.00	0.11	0.81	0.00	0.56	
Avail Cap(c_a), veh/h	225	1608	717	213	1584	707	213	0.00	361	631	846	717	
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	
Uniform Delay (d), s/vel		20.7	17.1	32.4	24.5	24.7	31.0	0.0	24.9	26.6	17.6	20.9	
Incr Delay (d2), s/veh	23.7	1.1	0.1	4.0	0.7	1.7	2.3	0.0	0.3	5.6	0.0	1.8	
Initial Q Delay(d3),s/vel		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),vel		3.8	0.3	0.2	1.5	1.6	0.4	0.0	0.4	3.8	0.0	3.0	
Unsig. Movement Delay			0.0	0.2	1.0	1.0	0.1	0.0	0.1	0.0	0.0	0.0	
LnGrp Delay(d),s/veh	51.9	21.7	17.2	36.4	25.2	26.4	33.2	0.0	25.2	32.2	17.7	22.6	
LnGrp LOS	D	C	В	D.4	C	C	C	A	C	C	В	C	
Approach Vol, veh/h		831			351			49			453		
Approach Delay, s/veh		28.4			25.9			29.2			27.5		
Approach LOS		20.4 C			23.9 C			23.2 C			27.5 C		
											U		
Timer - Assigned Phs	1	2	3	4	5	6	7	8					
Phs Duration (G+Y+Rc)), s8.0	26.4	17.5	15.4	16.0	18.5	8.8	24.2					
Change Period (Y+Rc),		6.5	5.5	5.5	6.5	6.5	5.5	5.5					
Max Green Setting (Gm		34.0	26.6	16.4	9.5	33.5	9.0	34.0					
Max Q Clear Time (g_c		13.3	11.4	3.0	9.8	6.7	3.0	10.9					
Green Ext Time (p_c), s		4.2	8.0	0.0	0.0	2.2	0.0	1.4					
Intersection Summary													
HCM 6th Ctrl Delay			27.7										
HCM 6th LOS			С										
Notes													

User approved pedestrian interval to be less than phase max green.

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	Ť	f)		7	f)		ň	ĥ		*	ĥ		
Traffic Volume (veh/h)	16	725	1	4	263	25	2	0	1	14	0	1	
Future Volume (veh/h)	16	725	1	4	263	25	2	0	1	14	0	1	
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approac	h	No			No			No			No		
Adj Sat Flow, veh/h/ln	1752	1870	1752	1752	1870	1752	1752	1752	1752	1752	1752	1752	
Adj Flow Rate, veh/h	19	873	1	5	317	30	2	0	1	17	0	1	
Peak Hour Factor	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	
Percent Heavy Veh, %	10	2	10	10	2	10	10	10	10	10	10	10	
Cap, veh/h	726	1105	1	384	995	94	425	0	202	425	0	202	
Arrive On Green	0.59	0.59	0.59	0.59	0.59	0.59	0.14	0.00	0.14	0.14	0.00	0.14	
Sat Flow, veh/h	968	1868	2	594	1682	159	1326	0	1485	1326	0	1485	
Grp Volume(v), veh/h	19	0	874	5	0	347	2	0	1	17	0	1	
Grp Sat Flow(s),veh/h/lr	n 968	0	1870	594	0	1842	1326	0	1485	1326	0	1485	
Q Serve(g_s), s	0.3	0.0	10.5	0.2	0.0	2.8	0.0	0.0	0.0	0.3	0.0	0.0	
Cycle Q Clear(g_c), s	3.1	0.0	10.5	10.7	0.0	2.8	0.1	0.0	0.0	0.3	0.0	0.0	
Prop In Lane	1.00		0.00	1.00		0.09	1.00		1.00	1.00		1.00	
Lane Grp Cap(c), veh/h	726	0	1106	384	0	1090	425	0	202	425	0	202	
V/C Ratio(X)	0.03	0.00	0.79	0.01	0.00	0.32	0.00	0.00	0.00	0.04	0.00	0.00	
Avail Cap(c_a), veh/h	1340	0	2291	760	0	2257	967	0	808	967	0	808	
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Upstream Filter(I)	1.00	0.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00	
Uniform Delay (d), s/veh	າ 3.8	0.0	4.6	8.7	0.0	3.0	11.0	0.0	11.0	11.1	0.0	11.0	
Incr Delay (d2), s/veh	0.0	0.0	1.3	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),veh	n/In0.0	0.0	1.1	0.0	0.0	0.2	0.0	0.0	0.0	0.1	0.0	0.0	
Unsig. Movement Delay	, s/veh												
LnGrp Delay(d),s/veh	3.8	0.0	5.9	8.7	0.0	3.2	11.0	0.0	11.0	11.2	0.0	11.0	
LnGrp LOS	Α	Α	Α	Α	Α	Α	В	Α	В	В	Α	В	
Approach Vol, veh/h		893			352			3			18		
Approach Delay, s/veh		5.9			3.3			11.0			11.1		
Approach LOS		Α			Α			В			В		
Timer - Assigned Phs		2		4		6		8					
Phs Duration (G+Y+Rc)	, S	8.0		21.4		8.0		21.4					
Change Period (Y+Rc),		4.0		4.0		4.0		4.0					
Max Green Setting (Gm		16.0		36.0		16.0		36.0					
Max Q Clear Time (g_c-		2.1		12.5		2.3		12.7					
Green Ext Time (p_c), s		0.0		4.9		0.0		1.4					
Intersection Summary													
HCM 6th Ctrl Delay			5.2										
HCM 6th LOS													
ICM 6th LOS			Α										

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EBL	. E	BR	NBL	NBT	SBT	SBR
*			*			
			232			60
			232	172	199	60
0		0	0	0	0	0
1.00	1	.00	1.00			1.00
			1.00	1.00	1.00	1.00
		870	1870			1870
						66
						0.91
						2
						82
						0.20
						416
						285
						1796
						8.6
				3.3	0.0	8.6
					_	0.23
						354
					0.00	0.80
		726	400	1191	0	533
1.00	1	.00	1.00	1.00	1.00	1.00
1.00	1	.00	1.00	1.00	0.00	1.00
h 16.6	1	3.2	22.5	8.3	0.0	21.7
0.6		6.7	10.0	0.1	0.0	5.3
า 0.0		0.0	0.0	0.0	0.0	0.0
						3.8
		9.9	32.5	8.4	0.0	27.0
						C C
		<u> </u>				
В				C	C	
		2		4	5	6
, S	3	4.0		22.5		17.7
						6.5
						16.8
, ,						10.6
, .						0.6
		J.1		0.0	0.0	0.0
			21.5			
	202 202 202 0 1.000 1.000 1.000 1.000 0.28 1781 222 1781 5.8 5.8 1.0000 1.0000	202	202 533 202 533 202 533 0 0 1.0	202 533 232 202 533 232 0 0 0 0 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	202 533 232 172 202 533 232 172 0 0 0 0 0 1.00 1.00 1.00 1.00 1.00 1.00	202 533 232 172 199 202 533 232 172 199 0 0 0 0 0 0 1.00 1.00 1.00 1.00 1.00 1.

	•	•	†	/	/	ţ
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	W		†	7	ሻ	↑
Traffic Volume (veh/h)	26	75	306	0	225	510
Future Volume (veh/h)	26	75	306	0	225	510
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00	1.00		1.00	1.00	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approac			No			No
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	29	83	340	0	250	567
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90
Percent Heavy Veh, %	2	2	2	2	2	2
Cap, veh/h	37	104	513	435	345	1152
Arrive On Green	0.09	0.09	0.27	0.00	0.19	0.62
Sat Flow, veh/h	419	1200	1870	1585	1781	1870
Grp Volume(v), veh/h	113	0	340	0	250	567
Grp Sat Flow(s), veh/h/lr		0		1585	1781	1870
Q Serve(g_s), s	1.8	0.0	4.3	0.0	3.5	4.5
Cycle Q Clear(g_c), s	1.8	0.0	4.3	0.0	3.5	4.5
Prop In Lane	0.26	0.73		1.00	1.00	
Lane Grp Cap(c), veh/h		0.70	513	435	345	1152
V/C Ratio(X)	0.79	0.00	0.66	0.00	0.73	0.49
Avail Cap(c_a), veh/h	970	0.00	1249	1059	925	2498
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	0.00	1.00	1.00
Uniform Delay (d), s/veh		0.00	8.7	0.0	10.2	2.9
Incr Delay (d2), s/veh	9.6	0.0	1.5	0.0	2.9	0.3
		0.0	0.0	0.0	0.0	0.0
Initial Q Delay(d3),s/veh		0.0	1.3	0.0	1.2	0.0
%ile BackOfQ(50%),veh			1.3	0.0	1.2	0.1
Unsig. Movement Delay			10.0	0.0	12.1	2.0
LnGrp Delay(d),s/veh	21.6	0.0	10.2	0.0	13.1	3.2
LnGrp LOS	C	A	B	<u>A</u>	В	A 047
Approach Vol, veh/h	113		340			817
Approach Delay, s/veh	21.6		10.2			6.2
Approach LOS	С		В			Α
Timer - Assigned Phs	1	2				6
Phs Duration (G+Y+Rc)	, s9.2	11.4				20.6
Change Period (Y+Rc),		4.0				4.0
Max Green Setting (Gm						36.0
Max Q Clear Time (g c						6.5
Green Ext Time (p_c), s	, .	1.0				2.6
Intersection Summary						2.0
			0.0			
HCM 6th Ctrl Delay			8.6			
HCM 6th LOS			Α			

	•	→	•	•	←	•	1	†	<i>></i>	/	↓	4	
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations		4			4			4		Ť	ĥ		
Traffic Volume (veh/h)	0	0	0	48	0	233	0	20	24	492	25	0	
Future Volume (veh/h)	0	0	0	48	0	233	0	20	24	492	25	0	
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approach	ı	No			No			No			No		
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	
Adj Flow Rate, veh/h	0	0	0	54	0	262	0	22	27	553	28	0	
	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2	
Cap, veh/h	0	470	0	145	23	329	0	73	89	655	1044	0	
	0.00	0.00	0.00	0.25	0.00	0.25	0.00	0.10	0.10	0.37	0.56	0.00	
Sat Flow, veh/h	0	1870	0	176	93	1309	0	764	938	1781	1870	0	
Grp Volume(v), veh/h	0	0	0	316	0	0	0	0	49	553	28	0	
Grp Sat Flow(s),veh/h/ln		1870	0	1578	0	0	0	0	1702	1781	1870	0	
Q Serve(g_s), s	0.0	0.0	0.0	4.3	0.0	0.0	0.0	0.0	1.1	12.0	0.3	0.0	
Cycle Q Clear(g_c), s	0.0	0.0	0.0	7.8	0.0	0.0	0.0	0.0	1.1	12.0	0.3	0.0	
(6=)	0.00		0.00	0.17		0.83	0.00		0.55	1.00		0.00	
Lane Grp Cap(c), veh/h	0	470	0	497	0	0	0	0	162	655	1044	0	
	0.00	0.00	0.00	0.64	0.00	0.00	0.00	0.00	0.30	0.84	0.03	0.00	
Avail Cap(c_a), veh/h	0	712	0	698	0	0	0	0	648	890	1825	0	
	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Upstream Filter(I)	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.00	
Uniform Delay (d), s/veh	0.0	0.0	0.0	14.7	0.0	0.0	0.0	0.0	17.7	12.2	4.2	0.0	
Incr Delay (d2), s/veh	0.0	0.0	0.0	1.4	0.0	0.0	0.0	0.0	1.0	5.6	0.0	0.0	
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),veh		0.0	0.0	2.5	0.0	0.0	0.0	0.0	0.4	4.6	0.1	0.0	
Unsig. Movement Delay,	s/veh												
LnGrp Delay(d),s/veh	0.0	0.0	0.0	16.0	0.0	0.0	0.0	0.0	18.7	17.7	4.2	0.0	
LnGrp LOS	Α	Α	Α	В	Α	Α	Α	Α	В	В	Α	Α	
Approach Vol, veh/h		0			316			49			581		
Approach Delay, s/veh		0.0			16.0			18.7			17.1		
Approach LOS					В			В			В		
Timer - Assigned Phs	1	2		4		6		8					
Phs Duration (G+Y+Rc),	10 5	8.0		14.6		27.5		14.6					
Change Period (Y+Rc),		4.0		4.0		4.0		4.0					
Max Green Setting (Gma		16.0		16.0		41.0		16.0					
Max Q Clear Time (g_c+		3.1		0.0		2.3		9.8					
Green Ext Time (p_c), s		0.1		0.0		0.1		1.0					
(1 –):	1.0	0.1		0.0		0.1		1.0					
Intersection Summary			40.0										
HCM 6th Ctrl Delay			16.8										
HCM 6th LOS			В										



F. Cumulative Conditions Synchro Outputs

1: International Pkwy & I-205 WB On-Ramp

Movement EBL EBT EBR WBL WBT WBR NBL NBT NBR SBL SBT SBR
Traffic Volume (veh/h) 0 0 1393 381 919 0 468 0 0 1066 700 Future Volume (veh/h) 0 0 1393 381 919 0 468 0 0 1066 700 Initial O (Qb), veh 0 1 0 0 <t< th=""></t<>
Future Volume (veh/h) 0 0 1393 381 919 0 468 0 0 1066 700 Initial Q (Qb), veh 0 1,00
Initial Q (Qb), veh 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Ped-Bike Adj(A_pbT) 1.00 </td
Parking Bus, Adj 1.00
Work Zone On Approach No No No No Adj Sat Flow, veh/h/ln 1678 1678 1678 0 1678 0 1678 1678 1678 1678 0 1678 0 1678 1678 1678 1678 0 1678 0 1678 1678 1678 1678 0 1678 0 1678 1678 1678 0 1678 0 1678 0 1678 0 1678 0 1678 0 1678 0 1670 100 100 1.00 <
Adj Sat Flow, veh/h/ln 1678 1678 1678 0 1678 0 0 1678 1678 Adj Flow Rate, veh/h 1288 528 0 0 468 0 0 1066 0 Peak Hour Factor 1.00
Adj Flow Rate, veh/h 1288 528 0 0 468 0 0 1066 0 Peak Hour Factor 1.00
Peak Hour Factor 1.00 0.00
Percent Heavy Veh, % 15 15 15 0 15 0 0 15 15 Cap, veh/h 1570 785 0 961 0 0 1741 Arrive On Green 0.49 0.47 0.00 0.00 0.30 0.00 0.30 0.00 Sat Flow, veh/h 3196 1678 2844 0 3355 0 0 6006 1422 Grp Volume(v), veh/h 1288 528 0 0 468 0 0 1066 0 Grp Sat Flow(s), veh/h/ln 1598 1678 1422 0 1594 0 0 1443 1422 Q Serve(g_s), s 16.1 11.5 0.0 0.0 5.6 0.0 0.0 7.4 0.0 Cycle Q Clear(g_c), s 16.1 11.5 0.0 0.0 5.6 0.0 0.0 7.4 0.0 Prop In Lane 1.00 1.00 0.00 961 0 0
Cap, veh/h 1570 785 0 961 0 0 1741 Arrive On Green 0.49 0.47 0.00 0.00 0.30 0.00 0.30 0.00 Sat Flow, veh/h 3196 1678 2844 0 3355 0 0 6006 1422 Grp Volume(v), veh/h 1288 528 0 0 468 0 0 1066 0 Grp Sat Flow(s), veh/h/In 1598 1678 1422 0 1594 0 0 1443 1422 Q Serve(g_s), s 16.1 11.5 0.0 0.0 5.6 0.0 0.0 7.4 0.0 Cycle Q Clear(g_c), s 16.1 11.5 0.0 0.0 5.6 0.0 0.0 7.4 0.0 Prop In Lane 1.00 1.00 1.00 0.00 0.00 0.00 0.00 0.0 1.00 Lane Grp Cap(c), veh/h 1570 785 0 961 0
Arrive On Green 0.49 0.47 0.00 0.00 0.30 0.00 0.30 0.00 Sat Flow, veh/h 3196 1678 2844 0 3355 0 0 6006 1422 Grp Volume(v), veh/h 1288 528 0 0 468 0 0 1066 0 Grp Sat Flow(s), veh/h/ln 1598 1678 1422 0 1594 0 0 1443 1422 Q Serve(g_s), s 16.1 11.5 0.0 0.0 5.6 0.0 0.0 7.4 0.0 Cycle Q Clear(g_c), s 16.1 11.5 0.0 0.0 5.6 0.0 0.0 7.4 0.0 Prop In Lane 1.00 1.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 1.00 Lane Grp Cap(c), veh/h 1570 785 0 961 0 0 1741 V/C Ratio(X) 0.02 0.67 0.00 </td
Sat Flow, veh/h 3196 1678 2844 0 3355 0 0 6006 1422 Grp Volume(v), veh/h 1288 528 0 0 468 0 0 1066 0 Grp Sat Flow(s), veh/h/ln 1598 1678 1422 0 1594 0 0 1443 1422 Q Serve(g_s), s 16.1 11.5 0.0 0.0 5.6 0.0 0.0 7.4 0.0 Cycle Q Clear(g_c), s 16.1 11.5 0.0 0.0 5.6 0.0 0.0 7.4 0.0 Prop In Lane 1.00 1.00 0.00 0.00 0.00 0.00 0.00 1.00 Lane Grp Cap(c), veh/h 1570 785 0 961 0 0 1741 V/C Ratio(X) 0.82 0.67 0.00 0.49 0.00 0.00 0.61 Avail Cap(c_a), veh/h 1773 891 0 3013 0 0 2869
Grp Volume(v), veh/h 1288 528 0 0 468 0 0 1066 0 Grp Sat Flow(s), veh/h/ln 1598 1678 1422 0 1594 0 0 1443 1422 Q Serve(g_s), s 16.1 11.5 0.0 0.0 5.6 0.0 0.0 7.4 0.0 Cycle Q Clear(g_c), s 16.1 11.5 0.0 0.0 5.6 0.0 0.0 7.4 0.0 Prop In Lane 1.00 1.00 0.00 0.00 0.00 0.00 0.00 1.00 Lane Grp Cap(c), veh/h 1570 785 0 961 0 0 1741 V/C Ratio(X) 0.82 0.67 0.00 0.49 0.00 0.00 0.61 Avail Cap(c_a), veh/h 1773 891 0 3013 0 0 2869 HCM Platoon Ratio 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 <td< td=""></td<>
Grp Sat Flow(s), veh/h/ln 1598 1678 1422 0 1594 0 0 1443 1422 Q Serve(g_s), s 16.1 11.5 0.0 0.0 5.6 0.0 0.0 7.4 0.0 Cycle Q Clear(g_c), s 16.1 11.5 0.0 0.0 5.6 0.0 0.0 7.4 0.0 Prop In Lane 1.00 1.00 0.00 0.00 0.00 0.00 1.00 Lane Grp Cap(c), veh/h 1570 785 0 961 0 0 1741 V/C Ratio(X) 0.82 0.67 0.00 0.49 0.00 0.00 0.61 Avail Cap(c_a), veh/h 1773 891 0 3013 0 0 2869 HCM Platoon Ratio 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
Q Serve(g_s), s 16.1 11.5 0.0 0.0 5.6 0.0 0.0 7.4 0.0 Cycle Q Clear(g_c), s 16.1 11.5 0.0 0.0 5.6 0.0 0.0 7.4 0.0 Prop In Lane 1.00 1.00 0.00 0.00 0.00 0.00 1.00 Lane Grp Cap(c), veh/h 1570 785 0 961 0 0 1741 V/C Ratio(X) 0.82 0.67 0.00 0.49 0.00 0.00 0.61 Avail Cap(c_a), veh/h 1773 891 0 3013 0 0 2869 HCM Platoon Ratio 1.00
Cycle Q Clear(g_c), s 16.1 11.5 0.0 0.0 5.6 0.0 0.0 7.4 0.0 Prop In Lane 1.00 1.00 0.00 0.00 0.00 0.00 1.00 Lane Grp Cap(c), veh/h 1570 785 0 961 0 0 1741 V/C Ratio(X) 0.82 0.67 0.00 0.49 0.00 0.00 0.61 Avail Cap(c_a), veh/h 1773 891 0 3013 0 0 2869 HCM Platoon Ratio 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
Prop In Lane 1.00 1.00 0.00 0.00 0.00 1.00 Lane Grp Cap(c), veh/h 1570 785 0 961 0 0 1741 V/C Ratio(X) 0.82 0.67 0.00 0.49 0.00 0.00 0.61 Avail Cap(c_a), veh/h 1773 891 0 3013 0 0 2869 HCM Platoon Ratio 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
Lane Grp Cap(c), veh/h 1570 785 0 961 0 0 1741 V/C Ratio(X) 0.82 0.67 0.00 0.49 0.00 0.00 0.61 Avail Cap(c_a), veh/h 1773 891 0 3013 0 0 2869 HCM Platoon Ratio 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
V/C Ratio(X) 0.82 0.67 0.00 0.49 0.00 0.00 0.61 Avail Cap(c_a), veh/h 1773 891 0 3013 0 0 2869 HCM Platoon Ratio 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
Avail Cap(c_a), veh/h 1773 891 0 3013 0 0 2869 HCM Platoon Ratio 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
HCM Platoon Ratio 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0
TRETTO THE TOTAL T
Upstream Filter(I) 1.00 1.00 0.00 0.00 1.00 0.00 1.00 0.00 Uniform Delay (d), s/veh 10.2 9.7 0.0 0.0 13.4 0.0 0.0 14.0 0.0
Incr Delay (d2), s/veh 2.7 1.4 0.0 0.0 0.1 0.0 0.0 0.1 0.0
Initial Q Delay(d3),s/veh 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.
%ile BackOfQ(50%), veh/ln 4.6 3.4 0.0 0.0 1.7 0.0 0.0 2.0 0.0
Unsig. Movement Delay, s/veh
LnGrp Delay(d),s/veh 12.8 11.0 0.0 0.0 13.5 0.0 0.0 14.2 0.0
LnGrp LOS B B A B A B
Approach Vol, veh/h 1816 A 468 1066 A
Approach Delay, s/veh 12.3 13.5 14.2
Approach LOS B B B
Timer - Assigned Phs 2 6 8
Phs Duration (G+Y+Rc), s 19.8 19.8 27.0
Change Period (Y+Rc), s 5.7 5.7 5.1 Max Green Setting (Gmax), s 44.3 23.3 24.9
<u> </u>
1 = 7
Intersection Summary
HCM 6th Ctrl Delay 13.1
HCM 6th LOS B

User approved volume balancing among the lanes for turning movement.

Unsignalized Delay for [WBR, SBR] is excluded from calculations of the approach delay and intersection delay.

2: International Pkwy & I-205 EB Off-Ramp

•	→	\searrow	•	•	•	^	†	/	/	ţ	4	
Movement EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations 7	4	7					ተተተ	77		ተተተ		
Traffic Volume (veh/h) 126	0	204	0	0	0	0	392	981	0	1557	0	
Future Volume (veh/h) 126	0	204	0	0	0	0	392	981	0	1557	0	
Initial Q (Qb), veh 0	0	0				0	0	0	0	0	0	
Ped-Bike Adj(A_pbT) 1.00		1.00				1.00		1.00	1.00		1.00	
Parking Bus, Adj 1.00	1.00	1.00				1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approach	No						No			No		
Adj Sat Flow, veh/h/ln 1678	1678	1678				0	1678	1678	0	1678	0	
Adj Flow Rate, veh/h 84	0	249				0	392	981	0	1557	0	
Peak Hour Factor 1.00	1.00	1.00				1.00	1.00	1.00	1.00	1.00	1.00	
Percent Heavy Veh, % 15	15	15				0	15	15	0	15	0	
Cap, veh/h 187	0	334				0	3316	1812	0	3316	0	
Arrive On Green 0.12	0.00	0.12				0.00	0.72	0.72	0.00	0.72	0.00	
Sat Flow, veh/h 1598	0	2844				0	4731	2502	0	4882	0	
Grp Volume(v), veh/h 84	0	249				0	392	981	0	1557	0	
Grp Sat Flow(s), veh/h/ln1598	0	1422				0	1527	1251	0	1527	0	
Q Serve(g_s), s 3.3	0.0	5.8				0.0	1.8	12.1	0.0	9.7	0.0	
Cycle Q Clear(g_c), s 3.3	0.0	5.8				0.0	1.8	12.1	0.0	9.7	0.0	
Prop In Lane 1.00		1.00				0.00		1.00	0.00		0.00	
Lane Grp Cap(c), veh/h 187	0	334				0	3316	1812	0	3316	0	
V/C Ratio(X) 0.45	0.00	0.75				0.00	0.12	0.54	0.00	0.47	0.00	
Avail Cap(c_a), veh/h 467	0	831				0	3316	1812	0	3316	0	
HCM Platoon Ratio 1.00	1.00	1.00				1.00	1.00	1.00	1.00	1.00	1.00	
Upstream Filter(I) 1.00	0.00	1.00				0.00	1.00	1.00	0.00	1.00	0.00	
Uniform Delay (d), s/veh28.0	0.0	29.1				0.0	2.8	4.3	0.0	3.9	0.0	
Incr Delay (d2), s/veh 0.6	0.0	1.3				0.0	0.1	1.2	0.0	0.5	0.0	
Initial Q Delay(d3),s/veh 0.0	0.0	0.0				0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%), veh/ln1.3	0.0	1.9				0.0	0.4	2.2	0.0	2.0	0.0	
Unsig. Movement Delay, s/vel	ı											
LnGrp Delay(d),s/veh 28.6	0.0	30.3				0.0	2.9	5.4	0.0	4.4	0.0	
LnGrp LOS C	Α	С				Α	Α	Α	Α	Α	Α	
Approach Vol, veh/h	333						1373			1557		
Approach Delay, s/veh	29.9						4.7			4.4		
Approach LOS	С						Α			Α		
Timer - Assigned Phs	2		4		6							
Phs Duration (G+Y+Rc), s	55.0		13.1		55.0							
Change Period (Y+Rc), s	5.7		5.1		5.7							
Max Green Setting (Gmax), s	49.3		19.9		49.3							
Max Q Clear Time (g_c+l1), s			7.8		11.7							
Green Ext Time (p_c), s	5.0		0.1		10.8							
Intersection Summary												
HCM 6th Ctrl Delay		7.1										
HCM 6th LOS		Α										
Notes												

User approved volume balancing among the lanes for turning movement.

<u></u>	_	+	`	•	←	•	•	†	~	\		4	
Movement EB	L E	ВТ	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	ሻ	^	7	77	†	7	ች	^	77	77	^	7	
	_	25	257	874	85	299	77	322	360	219	1092	31	
` ,		25	257	874	85	299	77	322	360	219	1092	31	
, ,	0	0	0	0	0	0	0	0	0	0	0	0	
Ped-Bike Adj(A_pbT) 1.0	0		1.00	1.00		1.00	1.00		1.00	1.00		1.00	
Parking Bus, Adj 1.0		00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approach		No			No			No			No		
Adj Sat Flow, veh/h/ln 167	8 16	78	1870	1870	1678	1678	1870	1870	1870	1678	1870	1678	
	3	25	257	874	85	299	77	322	360	219	1092	31	
Peak Hour Factor 1.0		00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
		15	2	2	15	15	2	2	2	15	2	15	
Cap, veh/h		00	189	945	546	462	113	1177	924	208	1191	476	
Arrive On Green 0.0		12	0.12	0.27	0.33	0.33	0.06	0.33	0.33	0.07	0.34	0.34	
Sat Flow, veh/h 159	8 16	78	1585	3456	1678	1419	1781	3554	2790	3100	3554	1422	
		25	257	874	85	299	77	322	360	219	1092	31	
Grp Sat Flow(s), veh/h/ln159			1585	1728	1678	1419	1781	1777	1395	1550	1777	1422	
Q Serve(g_s), s 2.		1.8	16.0	33.0	4.8	24.1	5.7	8.9	13.3	9.0	39.5	2.0	
Cycle Q Clear(g_c), s 2.		1.8	16.0	33.0	4.8	24.1	5.7	8.9	13.3	9.0	39.5	2.0	
Prop In Lane 1.0			1.00	1.00		1.00	1.00		1.00	1.00		1.00	
Lane Grp Cap(c), veh/h 10		00	189	945	546	462	113	1177	924	208	1191	476	
V/C Ratio(X) 0.3		12	1.36	0.93	0.16	0.65	0.68	0.27	0.39	1.05	0.92	0.07	
Avail Cap(c_a), veh/h 10		00	189	1031	588	498	120	1246	978	208	1246	499	
HCM Platoon Ratio 1.0	0 1.	00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Upstream Filter(I) 1.0	0 1.	00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Uniform Delay (d), s/veh59.	5 52	2.8	59.0	47.4	32.1	38.6	61.5	33.0	34.4	62.5	42.8	30.3	
Incr Delay (d2), s/veh 1.			191.6	13.0	0.1	2.6	13.8	0.1	0.3	76.8	10.5	0.1	
Initial Q Delay(d3),s/veh 0.		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%), veh/ln1.		9.0	16.3	15.4	1.9	8.5	3.0	3.9	4.4	5.8	19.0	0.7	
Unsig. Movement Delay, s/													
LnGrp Delay(d),s/veh 61.		3.0 2	250.6	60.3	32.2	41.2	75.3	33.1	34.7	139.3	53.3	30.3	
. , , ,	E	D	F	Е	С	D	Е	С	С	F	D	С	
Approach Vol, veh/h	3	15			1258			759			1342		
Approach Delay, s/veh	21!				53.9			38.1			66.8		
Approach LOS		F			D			D			E		
Timer - Assigned Phs	1	2	3	4	5	6	7	8					
Phs Duration (G+Y+Rc), 166	0 5	1.4	43.6	23.0	15.5	51.9	16.0	50.6					
Change Period (Y+Rc), s 7.		7.0	7.0	7.0	7.0	7.0	7.0	7.0					
Max Green Setting (Gmax)		7.0	40.0	16.0	9.0	47.0	9.0	47.0					
Max Q Clear Time (g_c+111)		5.3	35.0	18.0	7.7	41.5	4.6	26.1					
Green Ext Time (p_c), s 0.		3.9	1.7	0.0	0.0	3.4	0.0	1.4					
Intersection Summary	J .	J. /	,	0.0	0.0	J.7	0.0	1.7					
			60.2										
HCM 6th Ctrl Delay			69.2										
HCM 6th LOS			Ε										

	۶	→	•	•	•	•	4	†	<i>></i>	>	↓	✓	
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations		†	7	*	†	7	ኝ	†		ሻ	↑ ↑		
Traffic Volume (veh/h)	213	48	33	19	438	346	163	176	80	127	68	269	
Future Volume (veh/h)	213	48	33	19	438	346	163	176	80	127	68	269	
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)	1.00	U	1.00	1.00	U	1.00	1.00	U	1.00	1.00	U	1.00	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approacl		No	1.00	1.00	No	1.00	1.00	No	1.00	1.00	No	1.00	
	1678	1678	1678	1678	1678	1678	1678	1678	1678	1678	1678	1678	
Adj Flow Rate, veh/h	213	48	33	19	438	346	163	176	80	127	68	269	
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Percent Heavy Veh, %	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Cap, veh/h	226	206	175	466	495	420	194	515	224	156	341	304	
Arrive On Green	0.14	0.12	0.12	0.29	0.30	0.30	0.12	0.24	0.24	0.10	0.21	0.21	
	1598	1678	1422	1598	1678	1422	1598	2160	942	1598	1594	1422	
Grp Volume(v), veh/h	213	48	33	19	438	346	163	128	128	127	68	269	
Grp Sat Flow(s),veh/h/lr		1678	1422	1598	1678	1422	1598	1594	1508	1598	1594	1422	
2 Serve(g_s), s	10.7	2.1	1.3	0.7	20.2	18.4	8.1	5.4	5.7	6.3	2.8	14.9	
Cycle Q Clear(g_c), s	10.7	2.1	1.3	0.7	20.2	18.4	8.1	5.4	5.7	6.3	2.8	14.9	
Prop In Lane	1.00		1.00	1.00		1.00	1.00		0.62	1.00		1.00	
Lane Grp Cap(c), veh/h		206	175	466	495	420	194	380	359	156	341	304	
V/C Ratio(X)	0.94	0.23	0.19	0.04	0.88	0.82	0.84	0.34	0.36	0.82	0.20	0.88	
Avail Cap(c_a), veh/h	226	531	450	466	531	450	206	380	359	206	369	329	
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Uniform Delay (d), s/veh	134.6	32.2	18.1	20.6	27.3	26.7	34.9	25.6	25.8	36.0	26.2	31.0	
Incr Delay (d2), s/veh	43.9	0.8	0.7	0.0	16.1	11.9	24.4	0.7	0.9	16.9	0.4	23.2	
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%), veh	n/lm 6 .6	8.0	0.6	0.2	9.5	7.3	4.4	2.1	2.1	3.1	1.1	6.9	
Unsig. Movement Delay	, s/vet	1											
LnGrp Delay(d),s/veh	78.5	33.0	18.8	20.7	43.4	38.6	59.3	26.4	26.6	52.9	26.6	54.2	
LnGrp LOS	Ε	С	В	С	D	D	Е	С	С	D	С	D	
Approach Vol, veh/h		294			803			419			464		
Approach Delay, s/veh		64.3			40.8			39.3			49.8		
Approach LOS		E			D			D			D		
Timer - Assigned Phs	1	2	3	4	5	6	7	8					
	30 E						•						
Phs Duration (G+Y+Rc)		15.8	11.9	24.1	15.5	29.8	13.9	22.1					
Change Period (Y+Rc),		* 5.8	4.0	* 4.7	4.0	5.8	4.0	* 4.7					
Max Green Setting (Gm		* 26	10.5	* 19	11.5	25.7	10.5	* 19					
Max Q Clear Time (g_c-		4.1	8.3	7.7	12.7	22.2	10.1	16.9					
Green Ext Time (p_c), s	0.0	0.4	0.1	1.4	0.0	1.8	0.0	0.5					
Intersection Summary													
HCM 6th Ctrl Delay			46.1										
HCM 6th LOS			D										
Notes													

^{*} HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

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Movement EBL	EBT	BT WB	WBR	SBL	SBR
Lane Configurations 7	†	^	1	Ť	7
Traffic Volume (veh/h) 21	234			15	28
Future Volume (veh/h) 21	234	34 77	66	15	28
Initial Q (Qb), veh 0	0	0	0	0	0
Ped-Bike Adj(A_pbT) 1.00			1.00	1.00	1.00
Parking Bus, Adj 1.00	1.00	00 1.0	1.00	1.00	1.00
Work Zone On Approach	No			No	
Adj Sat Flow, veh/h/ln 1752	1752			1752	1752
Adj Flow Rate, veh/h 21	234			15	28
Peak Hour Factor 1.00	1.00			1.00	1.00
Percent Heavy Veh, % 10	10			10	10
Cap, veh/h 39	972			511	455
Arrive On Green 0.02	0.56			0.31	0.31
	1752			1668	1485
Grp Volume(v), veh/h 21	234			15	28
Grp Sat Flow(s), veh/h/ln1668	1752			1668	1485
Q Serve(g_s), s 1.0	5.5			0.5	1.1
Cycle Q Clear(g_c), s 1.0	5.5	.5 32.	1.9	0.5	1.1
Prop In Lane 1.00			1.00	1.00	1.00
Lane Grp Cap(c), veh/h 39	972	72 84	715	511	455
V/C Ratio(X) 0.54	0.24	24 0.9	0.09	0.03	0.06
Avail Cap(c_a), veh/h 175	972	72 84	715	511	455
HCM Platoon Ratio 1.00	1.00			1.00	1.00
Upstream Filter(I) 0.87	0.87			1.00	1.00
Uniform Delay (d), s/veh38.6	9.1			19.4	19.6
Incr Delay (d2), s/veh 9.8	0.5			0.1	0.3
Initial Q Delay(d3),s/veh 0.0	0.0			0.0	0.0
				0.0	
%ile BackOfQ(50%),veh/lo.5	2.0	.0 13.	0.6	0.2	0.4
Unsig. Movement Delay, s/vel		7 0/	110	10.5	10.0
LnGrp Delay(d),s/veh 48.4	9.7			19.5	19.9
LnGrp LOS D	A			В	В
Approach Vol, veh/h	255	55 84		43	
Approach Delay, s/veh	12.8	.8 25.		19.8	
Approach LOS	В	В (<u> </u>	В	
Timer - Assigned Phs	2	2		5	6
	50.9			5.9	
Phs Duration (G+Y+Rc), s					45.0
Change Period (Y+Rc), s	6.5			4.0	6.5
Max Green Setting (Gmax), s	44.4			8.4	32.0
Max Q Clear Time (g_c+l1), s	7.5			3.0	34.9
Green Ext Time (p_c), s	1.5	.5		0.0	0.0
Intersection Summary					
HCM 6th Ctrl Delay		22.:)		
HCM 6th LOS		(
HOW OUT LOS		,	,		

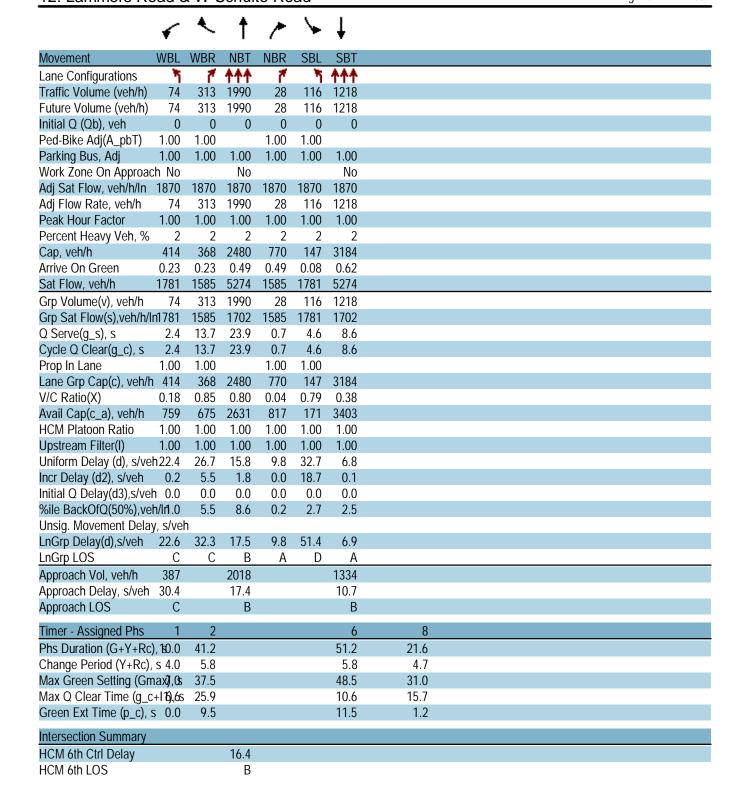
	۶	→	•	•	←	•	4	†	<i>></i>	/	ļ	✓
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	ች	ĵ.		ች	₽		ች	^	7	ች	^	7
Traffic Volume (veh/h)	77	155	93	80	929	22	38	32	10	87	1	49
Future Volume (veh/h)	77	155	93	80	929	22	38	32	10	87	1	49
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00	_	1.00	1.00	_	1.00	1.00	_	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approac		No			No			No			No	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Adj Sat Flow, veh/h/ln	1752	1870	1752	1752	1870	1752	1752	1752	1752	1752	1752	1752
Adj Flow Rate, veh/h	77	155	93	80	929	22	38	32	10	87	1	49
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Percent Heavy Veh, %	10	2	10	10	2	10	10	10	10	10	10	10
Cap, veh/h	97	597	358	100	985	23	58	385	172	109	487	217
Arrive On Green	0.06	0.54	0.54	0.06	0.54	0.54	0.03	0.12	0.12	0.07	0.15	0.15
Sat Flow, veh/h	1668	1095	657	1668	1820	43	1668	3328	1485	1668	3328	1485
Grp Volume(v), veh/h	77	0	248	80	0	951	38	32	10	87	1	49
Grp Sat Flow(s), veh/h/l		0	1752	1668	0	1863	1668	1664	1485	1668	1664	1485
Q Serve(g_s), s	3.9	0.0	6.5	4.1	0.0	41.4	1.9	0.7	0.5	4.4	0.0	2.5
Cycle Q Clear(g_c), s	3.9	0.0	6.5	4.1	0.0	41.4	1.9	0.7	0.5	4.4	0.0	2.5
Prop In Lane	1.00	0.0	0.38	1.00	0.0	0.02	1.00	0.7	1.00	1.00	0.0	1.00
Lane Grp Cap(c), veh/h		0	954	100	0	1008	58	385	172	109	487	217
V/C Ratio(X)	0.80	0.00	0.26	0.80	0.00	0.94	0.66	0.08	0.06	0.80	0.00	0.23
Avail Cap(c_a), veh/h	112	0.00	1016	106	0.00	1062	108	755	337	122	782	349
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/ve		0.0	10.4	40.1	0.0	18.6	41.2	34.1	34.0	39.8	31.5	32.6
Incr Delay (d2), s/veh	28.5	0.0	0.1	32.0	0.0	15.5	12.0	0.1	0.1	27.7	0.0	0.5
Initial Q Delay(d3),s/ve		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),ve		0.0	2.4	2.5	0.0	20.1	1.0	0.3	0.2	2.6	0.0	0.9
Unsig. Movement Dela						,						
LnGrp Delay(d),s/veh	68.7	0.0	10.6	72.1	0.0	34.0	53.2	34.2	34.2	67.5	31.5	33.1
LnGrp LOS	E	A	В	E	A	С	D	С	С	E	С	С
Approach Vol, veh/h		325			1031			80			137	
Approach Delay, s/veh		24.3			37.0			43.2			55.0	
Approach LOS		C C			D			D			D	
	1		2	1		4	7					
Timer - Assigned Phs	1	2	3	<u>4</u>	5	6	7	8				
Phs Duration (G+Y+Rc		15.8	9.2	51.8	7.0	18.5	9.5	51.5				
Change Period (Y+Rc)		5.8	4.0	* 4.7	4.0	5.8	4.5	* 4.7				
Max Green Setting (Gn		19.6	5.5	* 50	5.6	20.3	5.8	* 49				
Max Q Clear Time (g_c		2.7	6.1	8.5	3.9	4.5	5.9	43.4				
Green Ext Time (p_c),	s 0.0	0.1	0.0	1.7	0.0	0.1	0.0	3.4				
Intersection Summary												
HCM 6th Ctrl Delay			36.3									
HCM 6th LOS			D									
Notes												

^{*} HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

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Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations		7	ሻ	ተተተ	ተተተ	7
Traffic Volume (veh/h)	82	174	463	1569	1154	343
Future Volume (veh/h)	82	174	463	1569	1154	343
Initial Q (Qb), veh	0	0	0	0	0	0
, ,	1.00	1.00	1.00	U	U	1.00
	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		1.00	1.00	No	No	1.00
	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	82	174	463	1569	1154	343
	1.00	1.00	1.00	1.00	1.00	1.00
Percent Heavy Veh, %	2	2	2	2	2	2
	268	238	529	3415	1547	480
	0.15	0.15	0.30	0.67	0.30	0.30
·	781	1585	1781	5274	5274	1585
Grp Volume(v), veh/h	82	174	463	1569	1154	343
Grp Sat Flow(s), veh/h/ln1		1585	1781	1702	1702	1585
Q Serve(g_s), s	2.4	6.1	14.3	8.5	11.8	11.2
Cycle Q Clear(g_c), s	2.4	6.1	14.3	8.5	11.8	11.2
	1.00	1.00	1.00			1.00
Lane Grp Cap(c), veh/h	268	238	529	3415	1547	480
	0.31	0.73	0.88	0.46	0.75	0.71
	952	847	706	4269	1892	587
1 \ - /-	1.00	1.00	1.00	1.00	1.00	1.00
	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh2		23.5	19.4	4.6	18.2	18.0
Incr Delay (d2), s/veh	0.6	4.3	9.4	0.1	1.3	3.2
Initial Q Delay(d3),s/veh		0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/		0.0	6.7	1.9	4.3	4.1
Unsig. Movement Delay,			0.7	1.7	4.3	4.1
			20.0	17	10 E	21.2
1 3 . ,	22.6	27.8	28.8	4.7	19.5	21.2
LnGrp LOS	С	С	С	A	В	С
	256			2032	1497	
	26.1			10.2	19.9	
Approach LOS	С			В	В	
Timer - Assigned Phs		2		4	5	6
Phs Duration (G+Y+Rc),	S	44.6		13.4	21.2	23.4
Change Period (Y+Rc), s		5.8		* 4.7	4.0	5.8
Max Green Setting (Gma		48.5		* 31	23.0	21.5
Max Q Clear Time (g_c+	•	10.5		8.1	16.3	13.8
Green Ext Time (p_c), s	11), 3	16.5		0.8	0.9	3.8
		10.5		U.ŏ	0.9	ა.ზ
Intersection Summary						
HCM 6th Ctrl Delay			15.1			
HCM 6th LOS			В			
Notos						
Notes						

^{*} HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

Timing Plan: AM Peak



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Movement EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations 7	↑	7	*	†	7		ተተተ	7	*	ተተተ	7
Traffic Volume (veh/h) 7	3	17	204	1	410	127	1697	20	250	1019	48
Future Volume (veh/h) 7	3	17	204	1	410	127	1697	20	250	1019	48
Initial Q (Qb), veh 0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT) 1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj 1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No			No			No	1100		No	
Adj Sat Flow, veh/h/ln 1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h 7	3	17	204	1	410	127	1697	20	250	1019	48
Peak Hour Factor 1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Percent Heavy Veh, % 2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h 16	139	118	240	374	317	160	2119	658	286	2578	800
Arrive On Green 0.01	0.07	0.07	0.13	0.20	0.20	0.09	0.41	0.41	0.16	0.50	0.50
Sat Flow, veh/h 1781	1870	1585	1781	1870	1585	1781	5106	1585	1781	5106	1585
Grp Volume(v), veh/h 7	3	17	204	1	410	127	1697	20	250	1019	48
Grp Sat Flow(s), veh/h/ln1781	1870	1585	1781	1870	1585	1781	1702	1585	1781	1702	1585
Q Serve(g_s), s 0.4	0.1	0.9	10.5	0.0	12.4	6.6	27.4	0.4	12.9	11.6	1.5
Cycle Q Clear(g_c), s 0.4	0.1	0.9	10.5	0.0	12.4	6.6	27.4	0.4	12.9	11.6	1.5
Prop In Lane 1.00	0.1	1.00	1.00	0.0	1.00	1.00	21.4	1.00	1.00	11.0	1.00
Lane Grp Cap(c), veh/h 16	139	118	240	374	317	160	2119	658	286	2578	800
V/C Ratio(X) 0.44	0.02	0.14	0.85	0.00	1.29	0.79	0.80	0.03	0.87	0.40	0.06
Avail Cap(c_a), veh/h 104	695	589	284	883	749	331	2336	725	348	2578	800
HCM Platoon Ratio 1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I) 1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh46.5	40.4	40.8	39.8	30.2	16.4	42.0	24.1	5.7	38.6	14.4	11.9
Incr Delay (d2), s/veh 18.2	0.1	0.6	18.7	0.0	138.9	8.6	1.9	0.0	18.4	0.1	0.0
Initial Q Delay(d3), s/veh 0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/l 0 .2	0.0	0.4	5.8	0.0	16.6	3.2	10.9	0.3	7.0	4.3	0.5
Unsig. Movement Delay, s/vel		U.T	3.0	0.0	10.0	J.Z	10.7	0.0	7.0	7.0	0.0
LnGrp Delay(d), s/veh 64.6	40.5	41.4	58.6	30.2	155.3	50.6	26.1	5.7	57.0	14.5	11.9
LnGrp LOS E	40.5 D	D	50.0 E	30.2 C	133.3 F	D	20.1	3.7 A	57.0 E	14.3 B	В
Approach Vol, veh/h	27	<u> </u>	<u> </u>	615	<u>'</u>	U	1844		<u> </u>	1317	U
Approach Delay, s/veh	47.3			123.0			27.5			22.5	
Approach LOS	47.3 D			123.0 F			27.5 C			22.5 C.	
										C	
Timer - Assigned Phs 1	2	3	4	5	6	7	8				
Phs Duration (G+Y+Rc), 20.9	44.9	16.7	11.7	12.5	53.4	4.8	23.5				
Change Period (Y+Rc), s 5.8	* 5.8	4.0	* 4.7	4.0	5.8	4.0	* 4.7				
Max Green Setting (Gmak),4s	* 43	15.0	* 35	17.5	44.0	5.5	* 45				
Max Q Clear Time (g_c+114),9s	29.4	12.5	2.9	8.6	13.6	2.4	14.4				
Green Ext Time (p_c), s 0.2	9.7	0.1	0.0	0.2	8.8	0.0	1.5				
Intersection Summary											
HCM 6th Ctrl Delay		41.4									
HCM 6th LOS		D									
Notes											

^{*} HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations				1,4	4	77		^			1111	- 7
Traffic Volume (veh/h)	0	0	0	1021	9	1367	0	697	0	0	1456	88
Future Volume (veh/h)	0	0	0	1021	9	1367	0	697	0	0	1456	88
Initial Q (Qb), veh				0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)				1.00	4.00	1.00	1.00	4.00	1.00	1.00	4.00	1.00
Parking Bus, Adj				1.00	1.00	1.00	1.00	1.00 No	1.00	1.00	1.00	1.00
Work Zone On Approach Adj Sat Flow, veh/h/ln				1678	No 1678	1678	0	1678	0	0	No 1678	1678
Adj Flow Rate, veh/h				1076	0	0	0	697	0	0	1456	0
Peak Hour Factor				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Percent Heavy Veh, %				1.00	15	15	0	15	0	0	15	1.00
Cap, veh/h				1596	0	10	0	1330	0	0	2408	10
Arrive On Green				0.33	0.00	0.00	0.00	0.42	0.00	0.00	0.42	0.00
Sat Flow, veh/h				4793	0	2844	0	3355	0	0	6006	1422
Grp Volume(v), veh/h				1027	0	0	0	697	0	0	1456	0
Grp Sat Flow(s),veh/h/ln				1598	0	1422	0	1594	0	0	1443	1422
Q Serve(g_s), s				7.1	0.0	0.0	0.0	6.3	0.0	0.0	7.6	0.0
Cycle Q Clear(g_c), s				7.1	0.0	0.0	0.0	6.3	0.0	0.0	7.6	0.0
Prop In Lane				1.00		1.00	0.00		0.00	0.00		1.00
Lane Grp Cap(c), veh/h				1596	0		0	1330	0	0	2408	
V/C Ratio(X)				0.64	0.00		0.00	0.52	0.00	0.00	0.60	
Avail Cap(c_a), veh/h				3210	0		0	3637	0	0	3463	
HCM Platoon Ratio				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)				1.00	0.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00
Uniform Delay (d), s/veh				11.0	0.0	0.0	0.0	8.4	0.0	0.0	8.8	0.0
Incr Delay (d2), s/veh				0.3	0.0	0.0	0.0	0.1	0.0	0.0	0.1	0.0
Initial Q Delay(d3),s/veh				0.0 1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln Unsig. Movement Delay, s/veh				1.9	0.0	0.0	0.0	1.5	0.0	0.0	1.7	0.0
LnGrp Delay(d),s/veh				11.3	0.0	0.0	0.0	8.6	0.0	0.0	8.9	0.0
LnGrp LOS				11.3 B	Α	0.0	Α	Α	Α	Α	Α	0.0
Approach Vol, veh/h					1027	А		697			1456	Α
Approach Delay, s/veh					11.3	А		8.6			8.9	Λ.
Approach LOS					В			Α			Α	
						•					,,	
Timer - Assigned Phs		2				6		8				
Phs Duration (G+Y+Rc), s		21.9				21.9		16.9				
Change Period (Y+Rc), s		5.7				5.7		5.1				
Max Green Setting (Gmax), s		44.3				23.3		24.9				
Max Q Clear Time (g_c+l1), s		8.3				9.6 6.6		9.1 2.8				
Green Ext Time (p_c), s		3.6				0.0		2.8				
Intersection Summary												
HCM 6th Ctrl Delay			9.6									
HCM 6th LOS			Α									

User approved volume balancing among the lanes for turning movement.

Unsignalized Delay for [WBR, SBR] is excluded from calculations of the approach delay and intersection delay.

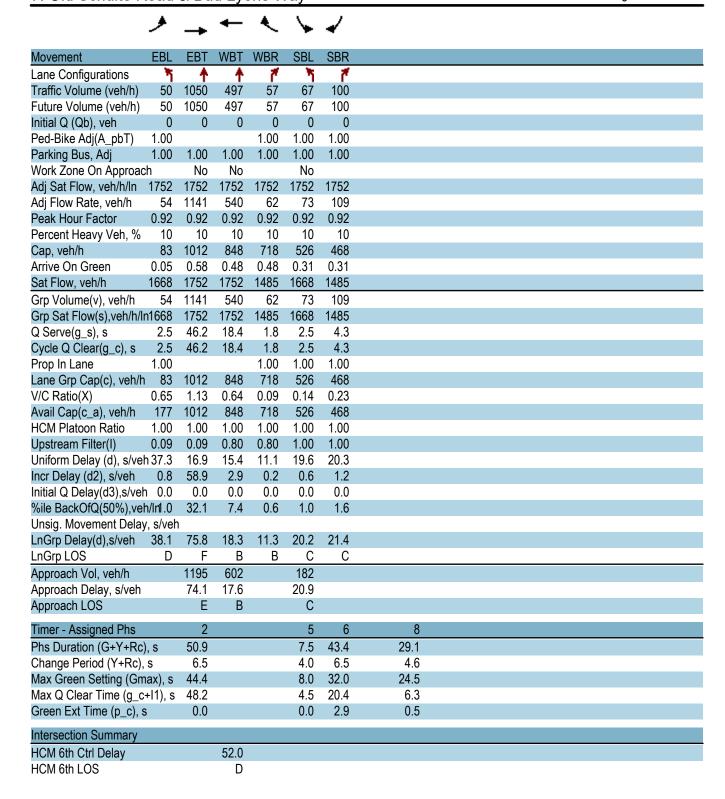
Cumulative Timing Plan: PM Peak

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	ች	4	7					ተተተ	77		ተተተ		
Traffic Volume (veh/h)	182	0	86	0	0	0	0	538	1946	0	1485	0	
Future Volume (veh/h)	182	0	86	0	0	0	0	538	1946	0	1485	0	
Initial Q (Qb), veh	0	0	0		<u> </u>		0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)	1.00	J	1.00				1.00	J	1.00	1.00	J	1.00	
Parking Bus, Adj	1.00	1.00	1.00				1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approact		No	1.00				1.00	No	1.00	1.00	No	1.00	
	1678	1678	1678				0	1678	1678	0	1678	0	
Adj Flow Rate, veh/h	209	0	57				0	538	1946	0	1485	0	
Peak Hour Factor	1.00	1.00	1.00				1.00	1.00	1.00	1.00	1.00	1.00	
Percent Heavy Veh, %	1.00	1.00	1.00				0	1.00	1.00	0	1.00	0	
Cap, veh/h	425	0	189				0	3433	1875	0	3433	0	
Arrive On Green	0.13	0.00	0.13				0.00	0.75	0.75	0.00	0.75	0.00	
			1422					4731	2502		4882		
	3196	0					0			0		0	
Grp Volume(v), veh/h	209	0	57				0	538	1946	0	1485	0	
Grp Sat Flow(s),veh/h/lr		0	1422				0	1527	1251	0	1527	0	
Q Serve(g_s), s	4.1	0.0	2.5				0.0	2.3	51.0	0.0	8.2	0.0	
Cycle Q Clear(g_c), s	4.1	0.0	2.5				0.0	2.3	51.0	0.0	8.2	0.0	
Prop In Lane	1.00		1.00				0.00		1.00	0.00		0.00	
ane Grp Cap(c), veh/h		0	189				0	3433	1875	0	3433	0	
V/C Ratio(X)	0.49	0.00	0.30				0.00	0.16	1.04	0.00	0.43	0.00	
Avail Cap(c_a), veh/h	986	0	439				0	3433	1875	0	3433	0	
HCM Platoon Ratio	1.00	1.00	1.00				1.00	1.00	1.00	1.00	1.00	1.00	
Upstream Filter(I)	1.00	0.00	1.00				0.00	1.00	1.00	0.00	1.00	0.00	
Jniform Delay (d), s/veh	127.4	0.0	26.6				0.0	2.4	8.5	0.0	3.2	0.0	
ncr Delay (d2), s/veh	0.3	0.0	0.3				0.0	0.1	31.3	0.0	0.4	0.0	
Initial Q Delay(d3),s/veh		0.0	0.0				0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),veh	n/ln1.5	0.0	0.8				0.0	0.4	15.1	0.0	1.5	0.0	
Jnsig. Movement Delay	, s/veh												
LnGrp Delay(d),s/veh	27.7	0.0	27.0				0.0	2.5	39.8	0.0	3.6	0.0	
LnGrp LOS	С	Α	С				Α	Α	F	Α	Α	Α	
Approach Vol, veh/h		266						2484			1485		
Approach Delay, s/veh		27.5						31.7			3.6		
Approach LOS		С						С			Α		
Fimer - Assigned Phs		2		4		6							
Phs Duration (G+Y+Rc)	, s	55.0		13.0		55.0							
Change Period (Y+Rc),		5.7		5.1		5.7							
Max Green Setting (Gm		49.3		19.9		49.3							
Max Q Clear Time (g_c-		53.0		6.1		10.2							
Green Ext Time (p_c), s		0.0		0.1		10.1							
ntersection Summary													
HCM 6th Ctrl Delay			21.6										
HCM 6th LOS			С										
Notes													

User approved volume balancing among the lanes for turning movement.

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	ች		7	ች		7		∱ }		ች	∱ }		
Traffic Volume (veh/h)	338	550	372	169	200	286	49	366	61	506	728	353	
Future Volume (veh/h)	338	550	372	169	200	286	49	366	61	506	728	353	
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approac		No			No			No			No		
Adj Sat Flow, veh/h/ln	1678	1678	1678	1678	1678	1678	1678	1678	1678	1678	1678	1678	
Adj Flow Rate, veh/h	338	550	372	169	200	286	49	366	61	506	728	353	
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Percent Heavy Veh, %	15	15	15	15	15	15	15	15	15	15	15	15	
Cap, veh/h	327	574	457	167	406	315	80	441	73	487	865	419	
Arrive On Green	0.20	0.34	0.32	0.10	0.24	0.22	0.05	0.16	0.15	0.30	0.42	0.40	
Sat Flow, veh/h	1598	1678	1422	1598	1678	1422	1598	2738	452	1598	2082	1008	
Grp Volume(v), veh/h	338	550	372	169	200	286	49	212	215	506	557	524	
Grp Volume(v), ven/n Grp Sat Flow(s),veh/h/li		1678	1422	1598	1678	1422	1598	1594	1596	1598	1594	1496	
Gip Sat Flow(s),ven/h/l Q Serve(g_s), s	24.5	38.4	28.8	12.5	12.3	23.5	3.6	15.4	15.7	36.5	37.6	37.8	
/	24.5	38.4	28.8	12.5	12.3	23.5	3.6	15.4	15.7	36.5	37.6	37.8	
Cycle Q Clear(g_c), s		JO.4			12.3			15.4	0.28		31.0	0.67	
Prop In Lane	1.00	E71	1.00	1.00	400	1.00	1.00	257		1.00	een		
Lane Grp Cap(c), veh/h		574	457	167	406	315	80	257	257	487	662	622	
V/C Ratio(X)	1.03	0.96	0.81	1.01	0.49	0.91	0.61	0.82	0.84	1.04	0.84	0.84	
Avail Cap(c_a), veh/h	327	574	457	167	406	315	87	259	260	487	662	622	
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Uniform Delay (d), s/ve		38.6	37.4	53.6	39.1	45.5	55.8	48.6	48.9	41.6	31.4	32.0	
Incr Delay (d2), s/veh	58.9	27.4	11.3	73.3	1.3	29.2	10.6	19.7	21.3	51.4	9.9	10.5	
Initial Q Delay(d3),s/vel		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),ve		19.4	11.4	8.3	5.1	10.8	1.7	7.5	7.8	21.1	16.0	15.3	
Unsig. Movement Delay			, -										
LnGrp Delay(d),s/veh		66.0	48.6	127.0	40.4	74.7	66.4	68.3	70.3	93.0	41.3	42.5	
LnGrp LOS	F	<u>E</u>	D	F	D	<u>E</u>	E	<u>E</u>	<u>E</u>	F	D	D	
Approach Vol, veh/h		1260			655			476			1587		
Approach Delay, s/veh		71.8			77.7			69.0			58.2		
Approach LOS		Е			Е			Е			Е		
Timer - Assigned Phs	1	2	3	4	5	6	7	8					
Phs Duration (G+Y+Rc	1 16/1 0	44.3	39.0	22.5	26.0	32.3	8.5	53.0					
Change Period (Y+Rc),		5.8	4.0	* 4.7	4.0	5.8	4.0	* 4.7					
Change Period (1+Rc), Max Green Setting (Gm		38.5		* 18		26.5		* 48					
			35.0		22.0		5.0						
Max Q Clear Time (g_c	, .	40.4	38.5	17.7	26.5	25.5	5.6	39.8					
Green Ext Time (p_c), s	5 0.0	0.0	0.0	0.1	0.0	0.3	0.0	5.4					
Intersection Summary													
HCM 6th Ctrl Delay			67.0										
HCM 6th LOS			Ε										
Notes													

^{*} HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.



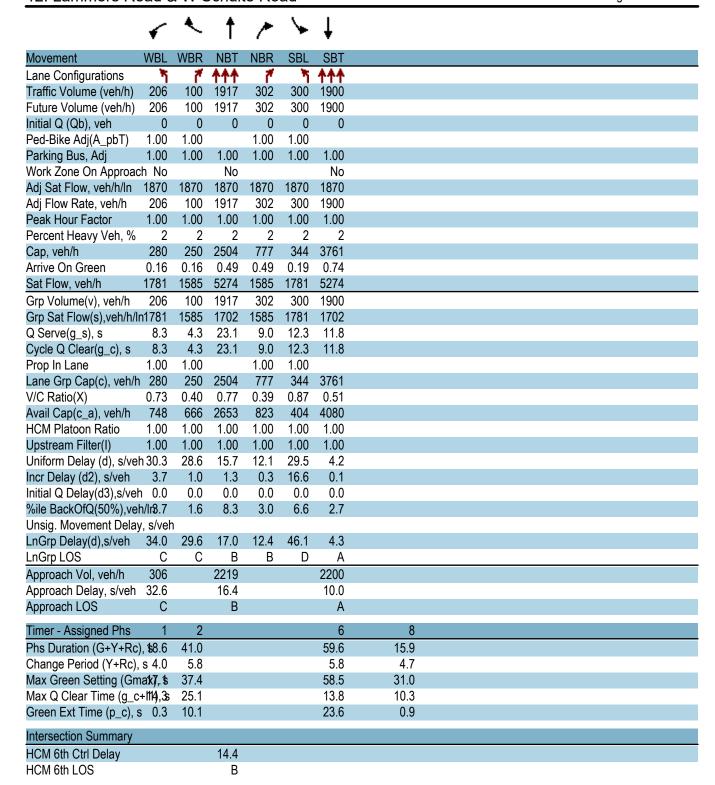
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Movement EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations 3	ĵ.		*	ĵ.			^	7	*	^	7	
Traffic Volume (veh/h) 267	376	344	138	164	107	93	61	86	378	345	408	
Future Volume (veh/h) 267	376	344	138	164	107	93	61	86	378	345	408	
nitial Q (Qb), veh 0	0	0	0	0	0	0	0	0	0	0	0	
Ped-Bike Adj(A_pbT) 1.00		1.00	1.00	•	1.00	1.00		1.00	1.00	•	1.00	
Parking Bus, Adj 1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Vork Zone On Approach	No			No			No			No		
Adj Sat Flow, veh/h/ln 1752	1870	1752	1752	1870	1752	1752	1752	1752	1752	1752	1752	
Adj Flow Rate, veh/h 267	376	344	138	164	107	93	61	86	378	345	408	
Peak Hour Factor 1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Percent Heavy Veh, % 10	2	10	10	2	10	10	10	10	10	10	10	
Cap, veh/h 299	378	346	155	353	230	113	434	194	398	1002	447	
Arrive On Green 0.18	0.42	0.42	0.09	0.33	0.33	0.07	0.13	0.13	0.24	0.30	0.30	
Sat Flow, veh/h 1668	899	823	1668	1057	689	1668	3328	1485	1668	3328	1485	
Grp Volume(v), veh/h 267	0	720	138	0	271	93	61	86	378	345	408	
Grp Sat Flow(s), veh/h/ln1668	0	1722	1668	0	1746	1668	1664	1485	1668	1664	1485	
Q Serve(g_s), s 21.2	0.0	56.5	11.1	0.0	16.6	7.5	2.2	7.3	30.3	11.0	35.9	
Cycle Q Clear(g_c), s 21.2	0.0	56.5	11.1	0.0	16.6	7.5	2.2	7.3	30.3	11.0	35.9	
rop In Lane 1.00	0.0	0.48	1.00	0.0	0.39	1.00	2.2	1.00	1.00	11.0	1.00	
ane Grp Cap(c), veh/h 299	0	724	155	0	583	113	434	194	398	1002	447	
//C Ratio(X) 0.89	0.00	0.99	0.89	0.00	0.46	0.82	0.14	0.44	0.95	0.34	0.91	
Avail Cap(c_a), veh/h 428	0.00	724	155	0.00	583	146	525	234	406	1043	465	
HCM Platoon Ratio 1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Jpstream Filter(I) 1.00	0.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Jniform Delay (d), s/veh 54.4	0.0	39.3	60.8	0.0	35.7	62.4	52.3	54.4	50.8	37.0	45.7	
ncr Delay (d2), s/veh 15.6	0.0	32.1	42.2	0.0	0.6	23.9	0.1	1.6	31.7	0.2	21.9	
nitial Q Delay(d3),s/veh 0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),veh/ lr 0.2	0.0	30.0	6.5	0.0	7.2	3.9	0.9	2.8	16.1	4.5	15.9	
Jnsig. Movement Delay, s/vel		00.0	3.0	3.0	,	3.0	3.0			1.0	13.0	
_nGrp Delay(d),s/veh 70.0	0.0	71.5	103.0	0.0	36.3	86.3	52.4	56.0	82.5	37.2	67.6	
nGrp LOS E	A	E	F	A	D	F	D	E	F	D	E	
Approach Vol, veh/h	987			409			240		•	1131	_	
Approach Delay, s/veh	71.1			58.8			66.9			63.3		
Approach LOS	F			50.0 E			60.5 E			65.5 E		
	_											
Timer - Assigned Phs 1	2	3	4	5	6	7	8					
Phs Duration (G+Y+Rc), 36.4	21.7	16.6	61.0	13.2	44.8	28.3	49.3					
Change Period (Y+Rc), s 4.0	5.8	4.0	* 4.7	4.0	5.8	4.5	* 4.7					
Max Green Setting (Gmax), &	19.6	12.6	* 56	11.9	40.7	34.3	* 34					
Max Q Clear Time (g_c+B12),3s	9.3	13.1	58.5	9.5	37.9	23.2	18.6					
Green Ext Time (p_c), s 0.1	0.4	0.0	0.0	0.0	1.1	0.6	1.4					
ntersection Summary												_
HCM 6th Ctrl Delay		65.7										
HCM 6th LOS		Е										
Notes												

^{*} HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

Cumulative Timing Plan: PM Peak

	•	•	1	T	¥	•
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	ሻ	7	ሻ	^ ^	ተተተ	7
Traffic Volume (veh/h)	273	562	305	1615	1725	92
Future Volume (veh/h)	273	562	305	1615	1725	92
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00	1.00	1.00			1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	h No			No	No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	273	562	305	1615	1725	92
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00
Percent Heavy Veh, %	2	2	2	2	2	2
Cap, veh/h	627	558	297	2854	1776	551
Arrive On Green	0.35	0.35	0.17	0.56	0.35	0.35
	1781	1585	1781	5274	5274	1585
Grp Volume(v), veh/h	273	562	305	1615	1725	92
Grp Sat Flow(s), veh/h/ln		1585	1781	1702	1702	1585
Q Serve(g s), s	10.6	31.7	15.0	18.4	29.9	3.6
Cycle Q Clear(g_c), s	10.6	31.7	15.0	18.4	29.9	3.6
Prop In Lane	1.00	1.00	1.00	10.4	20.0	1.00
Lane Grp Cap(c), veh/h		558	297	2854	1776	551
V/C Ratio(X)	0.44	1.01	1.03	0.57	0.97	0.17
. ,	627		297	2854	1776	551
Avail Cap(c_a), veh/h		558				
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh		29.1	37.5	12.8	28.9	20.3
Incr Delay (d2), s/veh	0.5	39.7	59.5	0.3	15.1	0.1
Initial Q Delay(d3),s/veh		0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh		29.1	11.3	6.5	14.1	1.3
Unsig. Movement Delay						
LnGrp Delay(d),s/veh	22.8	68.9	97.0	13.1	44.0	20.5
LnGrp LOS	С	F	F	В	D	С
Approach Vol, veh/h	835			1920	1817	
Approach Delay, s/veh	53.8			26.4	42.8	
Approach LOS	D			С	D	
Timer - Assigned Phs		2		4	5	6
Phs Duration (G+Y+Rc)	<u> </u>	54.3		35.7	19.0	35.3
Change Period (Y+Rc),		5.8		* 4.7	4.0	5.8
Max Green Setting (Gm		48.5		* 31	15.0	29.5
Max Q Clear Time (g_c+	, .	20.4		33.7	17.0	31.9
Green Ext Time (p_c), s		14.9		0.0	0.0	0.0
Intersection Summary						
HCM 6th Ctrl Delay			37.9			
HCM 6th LOS			D			
Notos						
Notes						

^{*} HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.



	۶	→	•	•	←	•	4	†	/	\	ļ	4
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	ሻ	↑	7	ሻ	1	7	ሻ	ተተተ	7	ች	^ ^	7
Traffic Volume (veh/h)	244	322	285	172	3	343	177	1572	179	368	1884	47
Future Volume (veh/h)	244	322	285	172	3	343	177	1572	179	368	1884	47
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approac	ch	No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	244	322	285	172	3	343	177	1572	179	368	1884	47
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	239	481	407	195	433	367	192	1658	515	359	2138	664
Arrive On Green	0.13	0.26	0.26	0.11	0.23	0.23	0.11	0.32	0.32	0.20	0.42	0.42
Sat Flow, veh/h	1781	1870	1585	1781	1870	1585	1781	5106	1585	1781	5106	1585
Grp Volume(v), veh/h	244	322	285	172	3	343	177	1572	179	368	1884	47
Grp Sat Flow(s), veh/h/l		1870	1585	1781	1870	1585	1781	1702	1585	1781	1702	1585
Q Serve(g_s), s	20.0	23.0	24.2	14.2	0.2	31.6	14.6	44.7	12.8	30.0	50.6	2.6
Cycle Q Clear(g_c), s	20.0	23.0	24.2	14.2	0.2	31.6	14.6	44.7	12.8	30.0	50.6	2.6
Prop In Lane	1.00	20.0	1.00	1.00	0.2	1.00	1.00	77.7	1.00	1.00	00.0	1.00
Lane Grp Cap(c), veh/h		481	407	195	433	367	192	1658	515	359	2138	664
V/C Ratio(X)	1.02	0.67	0.70	0.88	0.01	0.93	0.92	0.95	0.35	1.02	0.88	0.07
Avail Cap(c_a), veh/h	239	481	407	216	449	380	192	1658	515	359	2138	664
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Jpstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/ve		49.6	50.1	65.3	44.0	56.0	65.8	49.0	38.2	59.4	39.8	25.9
Incr Delay (d2), s/veh	63.1	3.6	5.3	30.5	0.0	29.5	44.0	12.0	0.4	53.9	4.7	0.0
Initial Q Delay(d3),s/vel		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0
%ile BackOfQ(50%),ve		11.3	10.3	8.1	0.0	15.6	9.0	20.8	5.1	18.9	21.9	1.0
Jnsig. Movement Dela			10.5	0.1	U. I	13.0	3.0	20.0	J. I	10.9	21.3	1.0
LnGrp Delay(d),s/veh	•	53.2	55.3	95.8	44.0	85.5	109.8	61.1	38.6	113.3	44.5	25.9
LnGrp Delay(d),s/ven LnGrp LOS	121.5 F	55.2 D	55.5 E	95.6 F	44.0 D	00.5 F	109.6 F	61.1 E	30.0 D	113.3 F	44.5 D	25.9 C
	Г			Г	518	r	Г		U	Г	2299	U
Approach Vol, veh/h		851						1928				
Approach Delay, s/veh		75.2			88.7			63.4			55.1	
Approach LOS		Е			Г			Е			Е	
Timer - Assigned Phs	1	2	3	4	5	6	7	8				
Phs Duration (G+Y+Rc), 34.0	52.3	20.2	42.2	20.0	66.3	24.0	38.5				
Change Period (Y+Rc),		5.8	4.0	* 4.7	4.0	5.8	4.0	* 4.7				
Max Green Setting (Gr		46.5	18.0	* 37	16.0	60.5	20.0	* 35				
Max Q Clear Time (g_c		46.7	16.2	26.2	16.6	52.6	22.0	33.6				
Green Ext Time (p_c),		0.0	0.1	2.3	0.0	6.6	0.0	0.2				
Intersection Summary	3.0	7.0	3 , ,		2,0		7.0					
•			64.1									
HCM 6th Ctrl Delay			64.1 E									
HCM 6th LOS			E									
Notes												

^{*} HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.



G. Cumulative Plus Project Conditions Synchro Outputs

1: International Pkwy	& I-2	05 WE	On-R	amp						Timin	g Plan: A	•
	۶	→	\rightarrow	•	←	•	4	†	/	>	↓	4
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations				14.54	4	77		†			1111	7
Traffic Volume (veh/h)	0	0	0	1446	381	919	1	470	0	0	1105	700
Future Volume (veh/h)	0	0	0	1446	381	919	1	470	0	0	1105	700
Initial Q (Qb), veh				0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)				1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach					No			No			No	
Adj Sat Flow, veh/h/ln				1678	1678	1678	1678	1678	0	0	1678	1678
Adj Flow Rate, veh/h				1332	541	0	1	470	0	0	1105	0
Peak Hour Factor				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Percent Heavy Veh, %				15	15	15	15	15	0	0	15	15
Cap, veh/h				1579	791		75	954	0	0	1762	
Arrive On Green				0.49	0.47	0.00	0.31	0.31	0.00	0.00	0.31	0.00
Sat Flow, veh/h				3196	1678	2844	1	3200	0	0	6006	1422
Grp Volume(v), veh/h				1332	541	0	253	218	0	0	1105	0
Grp Sat Flow(s), veh/h/ln				1598	1678	1422	1675	1450	0	0	1443	1422
Q Serve(g_s), s				17.5	12.2	0.0	0.0	6.0	0.0	0.0	8.0	0.0
Cycle Q Clear(g_c), s				17.5	12.2	0.0	6.0	6.0	0.0	0.0	8.0	0.0
Prop In Lane				1.00		1.00	0.00		0.00	0.00		1.00
Lane Grp Cap(c), veh/h				1579	791		586	443	0	0	1762	
V/C Ratio(X)				0.84	0.68		0.43	0.49	0.00	0.00	0.63	
Avail Cap(c_a), veh/h				1717	863		1599	1328	0	0	2779	
HCM Platoon Ratio				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)				1.00	1.00	0.00	1.00	1.00	0.00	0.00	1.00	0.00
Uniform Delay (d), s/veh				10.6	10.0	0.0	13.7	13.7	0.0	0.0	14.4	0.0
Incr Delay (d2), s/veh				3.6	1.7	0.0	0.2	0.3	0.0	0.0	0.1	0.0
Initial Q Delay(d3),s/veh				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln				5.2	3.7	0.0	2.0	1.7	0.0	0.0	2.2	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh				14.2	11.7	0.0	13.9	14.1	0.0	0.0	14.6	0.0
LnGrp LOS				В	В		В	В	A	A	В	
Approach Vol, veh/h					1873	Α		471			1105	Α
Approach Delay, s/veh					13.5			14.0			14.6	
Approach LOS					В			В			В	
Timer - Assigned Phs		2				6		8				
Phs Duration (G+Y+Rc), s		20.5				20.5		27.9				
Change Period (Y+Rc), s		5.7				5.7		5.1				
Max Green Setting (Gmax), s		44.3				23.3		24.9				
Max Q Clear Time (g_c+l1), s		8.0				10.0		19.5				
Green Ext Time (p_c), s		1.9				4.8		3.3				
Intersection Summary												
HCM 6th Ctrl Delay			13.9									
LICM (+b LOC												

HCM 6th LOS

User approved volume balancing among the lanes for turning movement.

Unsignalized Delay for [WBR, SBR] is excluded from calculations of the approach delay and intersection delay.

В

_	•	→	\searrow	•	•	•	1	†	/	/	ţ	4	
Movement E	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	٦	4	7					ተተተ	77		ተተተ		
-	126	0	222	0	0	0	0	395	984	0	1649	0	
Future Volume (veh/h) 1	126	0	222	0	0	0	0	395	984	0	1649	0	
Initial Q (Qb), veh	0	0	0				0	0	0	0	0	0	
Ped-Bike Adj(A_pbT) 1	.00		1.00				1.00		1.00	1.00		1.00	
Parking Bus, Adj 1	.00	1.00	1.00				1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approach		No						No			No		
Adj Sat Flow, veh/h/ln 16	678	1678	1678				0	1678	1678	0	1678	0	
Adj Flow Rate, veh/h	84	0	267				0	395	984	0	1649	0	
Peak Hour Factor 1	.00	1.00	1.00				1.00	1.00	1.00	1.00	1.00	1.00	
Percent Heavy Veh, %	15	15	15				0	15	15	0	15	0	
	194	0	346				0	3301	1803	0	3301	0	
).12	0.00	0.12				0.00	0.72	0.72	0.00	0.72	0.00	
Sat Flow, veh/h 15	598	0	2844				0	4731	2502	0	4882	0	
Grp Volume(v), veh/h	84	0	267				0	395	984	0	1649	0	
Grp Sat Flow(s), veh/h/ln15		0	1422				0	1527	1251	0	1527	0	
	3.3	0.0	6.2				0.0	1.8	12.4	0.0	10.8	0.0	
	3.3	0.0	6.2				0.0	1.8	12.4	0.0	10.8	0.0	
3 13- 7	.00		1.00				0.00		1.00	0.00		0.00	
	194	0	346				0	3301	1803	0	3301	0	
).43	0.00	0.77				0.00	0.12	0.55	0.00	0.50	0.00	
	465	0	827				0	3301	1803	0	3301	0	
	.00	1.00	1.00				1.00	1.00	1.00	1.00	1.00	1.00	
	.00	0.00	1.00				0.00	1.00	1.00	0.00	1.00	0.00	
Uniform Delay (d), s/veh2	7.9	0.0	29.1				0.0	2.9	4.4	0.0	4.2	0.0	
	0.6	0.0	1.4				0.0	0.1	1.2	0.0	0.5	0.0	
Initial Q Delay(d3),s/veh	0.0	0.0	0.0				0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%), veh/li		0.0	2.1				0.0	0.4	2.3	0.0	2.3	0.0	
Unsig. Movement Delay, s	s/veh												
	28.4	0.0	30.5				0.0	3.0	5.6	0.0	4.7	0.0	
LnGrp LOS	С	Α	С				Α	Α	Α	Α	Α	Α	
Approach Vol, veh/h		351						1379			1649		
Approach Delay, s/veh		30.0						4.8			4.7		
Approach LOS		С						Α			Α		
Timer - Assigned Phs		2		4		6							
Phs Duration (G+Y+Rc), s	S	55.0		13.4		55.0							
Change Period (Y+Rc), s		5.7		5.1		5.7							
Max Green Setting (Gmax	x), s	49.3		19.9		49.3							
Max Q Clear Time (q_c+l		14.4		8.2		12.8							
Green Ext Time (p_c), s	,	5.0		0.1		11.7							
Intersection Summary													
HCM 6th Ctrl Delay			7.4										
HCM 6th LOS			Α										
Notes													

User approved volume balancing among the lanes for turning movement.

	•	→	•	•	←	•	•	†	/	/	ļ	4	
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	Ĭ	<u></u>	7	44	<u></u>	7	Ť	^	77	44	^	7	
Traffic Volume (veh/h)	33	25	257	880	85	305	77	322	464	319	1092	31	
Future Volume (veh/h)	33	25	257	880	85	305	77	322	464	319	1092	31	
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approach	1	No			No			No			No		
Adj Sat Flow, veh/h/ln 1	1678	1678	1870	1870	1678	1678	1870	1870	1870	1678	1870	1678	
Adj Flow Rate, veh/h	33	25	257	880	85	305	77	322	464	319	1092	31	
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Percent Heavy Veh, %	15	15	2	2	15	15	2	2	2	15	2	15	
Cap, veh/h	107	200	189	949	548	464	113	1176	923	208	1189	476	
	0.07	0.12	0.12	0.27	0.33	0.33	0.06	0.33	0.33	0.07	0.33	0.33	
	1598	1678	1585	3456	1678	1419	1781	3554	2790	3100	3554	1422	
Grp Volume(v), veh/h	33	25	257	880	85	305	77	322	464	319	1092	31	
Grp Sat Flow(s), veh/h/ln		1678	1585	1728	1678	1419	1781	1777	1395	1550	1777	1422	
Q Serve(q_s), s	2.6	1.8	16.0	33.3	4.8	24.8	5.7	9.0	17.9	9.0	39.7	2.0	
Cycle Q Clear(g_c), s	2.6	1.8	16.0	33.3	4.8	24.8	5.7	9.0	17.9	9.0	39.7	2.0	
	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00	
Lane Grp Cap(c), veh/h		200	189	949	548	464	113	1176	923	208	1189	476	
	0.31	0.13	1.36	0.93	0.16	0.66	0.68	0.27	0.50	1.54	0.92	0.07	
Avail Cap(c_a), veh/h	107	200	189	1029	587	496	119	1243	976	208	1243	497	
	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Uniform Delay (d), s/veh		52.9	59.2	47.4	32.1	38.8	61.6	33.1	36.1	62.7	42.9	30.4	
Incr Delay (d2), s/veh	1.6	0.3	192.9	13.3	0.1	2.9	14.0	0.1	0.4	264.0	10.7	0.1	
Initial Q Delay(d3),s/veh		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%), veh		0.8	16.4	15.6	1.9	8.7	3.0	3.9	6.0	11.2	19.1	0.7	
Unsig. Movement Delay,													
	61.3		252.1	60.7	32.2	41.7	75.6	33.2	36.5	326.7	53.6	30.5	
LnGrp LOS	E	D	F	E	C	D	E	C	D	F	D	С	
Approach Vol, veh/h		315			1270			863			1442		
Approach Delay, s/veh		216.3			54.2			38.8			113.5		
Approach LOS		F			D			D			F		
•	1		2	4		,	7						
Timer - Assigned Phs	1/ 0	2	3	4	5	6	7	8					
Phs Duration (G+Y+Rc),		51.5	43.9	23.0	15.5	52.0	16.0	50.9					
Change Period (Y+Rc), s		7.0	7.0	7.0	7.0	7.0	7.0	7.0					
Max Green Setting (Gma		47.0	40.0	16.0	9.0	47.0	9.0	47.0					
Max Q Clear Time (g_c+		19.9	35.3	18.0	7.7	41.7	4.6	26.8					
Green Ext Time (p_c), s	0.0	4.3	1.6	0.0	0.0	3.3	0.0	1.4					
Intersection Summary													
HCM 6th Ctrl Delay			85.9										
HCM 6th LOS			F										

Timing Plan: AM Peak

	۶	→	•	•	←	•	4	†	/	/	ļ	✓	
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	ň	↑	7	ሻ	†	7	ሻ	↑ ↑		ሻ	ħβ		
Traffic Volume (veh/h)	213	252	33	20	450	346	163	176	98	136	68	269	
uture Volume (veh/h)	213	252	33	20	450	346	163	176	98	136	68	269	
nitial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Vork Zone On Approac		No			No			No			No		
	1678	1678	1678	1678	1678	1678	1678	1678	1678	1678	1678	1678	
Adj Flow Rate, veh/h	213	252	33	20	450	346	163	176	98	136	68	269	
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Percent Heavy Veh, %	15	15	15	15	15	15	15	15	15	15	15	15	
Cap, veh/h	224	313	265	368	501	425	194	466	247	165	341	304	
Arrive On Green	0.14	0.19	0.19	0.23	0.30	0.30	0.12	0.23	0.23	0.10	0.21	0.21	
Sat Flow, veh/h	1598	1678	1422	1598	1678	1422	1598	2012	1068	1598	1594	1422	
Grp Volume(v), veh/h	213	252	33	20	450	346	163	138	136	136	68	269	
Grp Sat Flow(s), veh/h/h		1678	1422	1598	1678	1422	1598	1594	1486	1598	1594	1422	
2 Serve(g_s), s	10.8	11.8	1.1	0.8	21.1	18.5	8.2	5.9	6.4	6.8	2.9	15.0	
Cycle Q Clear(g_c), s	10.8	11.8	1.1	0.8	21.1	18.5	8.2	5.9	6.4	6.8	2.9	15.0	
Prop In Lane	1.00	11.0	1.00	1.00	21.1	1.00	1.00	5.7	0.72	1.00	۷. /	1.00	
.ane Grp Cap(c), veh/h		313	265	368	501	425	194	369	344	165	341	304	
//C Ratio(X)	0.95	0.80	0.12	0.05	0.90	0.81	0.84	0.37	0.40	0.82	0.20	0.89	
Avail Cap(c_a), veh/h	224	526	446	368	526	446	205	369	344	205	366	326	
ICM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Jpstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Jniform Delay (d), s/vel		31.9	14.6	24.6	27.5	26.6	35.2	26.5	26.6	36.0	26.4	31.2	
ncr Delay (d2), s/veh	45.9	6.8	0.3	0.1	18.1	11.3	24.7	0.9	1.1	19.2	0.4	23.7	
nitial Q Delay(d3),s/vel		0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.0	0.4	0.0	
%ile BackOfQ(50%),vel		5.0	0.5	0.0	10.1	7.3	4.4	2.3	2.3	3.5	1.1	7.0	
Jnsig. Movement Delay			0.5	0.5	10.1	7.5	4.4	2.3	2.3	3.5	1.1	7.0	
unsig. Movement Delay LnGrp Delay(d),s/veh	80.8	38.6	14.9	24.6	45.6	37.9	59.9	27.4	27.7	55.1	26.9	55.0	
LnGrp LOS	60.6 F	30.0 D	14.9 B	24.0 C	45.0 D	37.9 D	59.9 E	27.4 C	27.7 C	55.1 E	20.9 C	55.0 D	
Approach Vol, veh/h	Г	498	D	U	816	U		437	U		473	U	
Approach Voi, ven/n Approach Delay, s/veh		55.1			41.9			39.6			51.0		
Approach LOS		55.1 E			41.9 D			39.0 D			D D		
чрргоаст соз		E			υ			U			υ		
Timer - Assigned Phs	1	2	3	4	5	6	7	8					
Phs Duration (G+Y+Rc)),24.7	21.1	12.5	23.7	15.5	30.3	13.9	22.2					
Change Period (Y+Rc),	s 5.8	* 5.8	4.0	* 4.7	4.0	5.8	4.0	* 4.7					
Max Green Setting (Gm		* 26	10.5	* 19	11.5	25.7	10.5	* 19					
Max Q Clear Time (g_c		13.8	8.8	8.4	12.8	23.1	10.2	17.0					
Green Ext Time (p_c), s		1.5	0.1	1.5	0.0	1.4	0.0	0.5					
ntersection Summary													
HCM 6th Ctrl Delay			46.3										
HCM 6th LOS			40.3 D										
			D										
Votes													

^{*} HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

	۶	→	•	•	←	•	1	†	/	/	↓	4	
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	7	^	7	7	^	7	7	ĵ.		7	ĵ.		
Traffic Volume (veh/h)	21	420	46	145	781	66	7	0	4	15	0	28	
Future Volume (veh/h)	21	420	46	145	781	66	7	0	4	15	0	28	
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approac	h	No			No			No			No		
Adj Sat Flow, veh/h/ln	1752	1752	1870	1870	1752	1752	1870	1870	1870	1752	1870	1752	
Adj Flow Rate, veh/h	21	420	50	158	781	66	8	0	4	15	0	28	
Peak Hour Factor	1.00	1.00	0.92	0.92	1.00	1.00	0.92	0.92	0.92	1.00	0.92	1.00	
Percent Heavy Veh, %	10	10	2	2	10	10	2	2	2	10	2	10	
Cap, veh/h	39	1877	894	120	2045	912	15	0	117	83	0	183	
Arrive On Green	0.02	0.56	0.56	0.07	0.61	0.61	0.01	0.00	0.07	0.05	0.00	0.12	
Sat Flow, veh/h	1668	3328	1585	1781	3328	1485	1781	0	1585	1668	0	1585	
Grp Volume(v), veh/h	21	420	50	158	781	66	8	0	4	15	0	28	· ·
Grp Sat Flow(s), veh/h/lr		1664	1585	1781	1664	1485	1781	0	1585	1668	0	1585	
Q Serve(g_s), s	1.0	5.0	1.1	5.4	9.5	1.4	0.4	0.0	0.2	0.7	0.0	1.3	
Cycle Q Clear(g_c), s	1.0	5.0	1.1	5.4	9.5	1.4	0.4	0.0	0.2	0.7	0.0	1.3	
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00	
Lane Grp Cap(c), veh/h	39	1877	894	120	2045	912	15	0	117	83	0	183	
V/C Ratio(X)	0.54	0.22	0.06	1.31	0.38	0.07	0.55	0.00	0.03	0.18	0.00	0.15	
Avail Cap(c_a), veh/h	104	1877	894	120	2045	912	89	0	476	83	0	476	
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00	
Uniform Delay (d), s/veh	า38.6	8.7	7.9	37.3	7.8	6.2	39.5	0.0	34.4	36.4	0.0	31.9	
Incr Delay (d2), s/veh	11.1	0.3	0.1	188.3	0.5	0.2	28.8	0.0	0.1	4.7	0.0	0.4	
Initial Q Delay(d3),s/veh	า 0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%), veh	n/l i0 .5	1.5	0.4	8.5	2.7	0.4	0.3	0.0	0.1	0.4	0.0	0.5	
Unsig. Movement Delay	, s/veł	1											
LnGrp Delay(d),s/veh	49.8	9.0	8.0	225.6	8.3	6.4	68.4	0.0	34.5	41.1	0.0	32.2	
LnGrp LOS	D	Α	Α	F	Α	Α	Ε	Α	С	D	Α	С	
Approach Vol, veh/h		491			1005			12			43		
Approach Delay, s/veh		10.6			42.4			57.1			35.3		
Approach LOS		В			D			Ε			D		
Timer - Assigned Phs	1	2	3	4	5	6	7	8					
Phs Duration (G+Y+Rc)	0 0	51.6	8.0	10.5	5.9	55.6	4.7	13.8					
Change Period (Y+Rc),		6.5	4.0	4.6	4.0	6.5	4.7	4.6					
Max Green Setting (Gm		27.0	4.0	24.0	5.0	27.9	4.0	24.0					
Max Q Clear Time (q_c-		7.0	2.7	24.0	3.0	11.5	2.4	3.3					
Green Ext Time (p_c), s		2.5	0.0				0.0						
· ·	0.0	2.5	0.0	0.0	0.0	4.7	0.0	0.1					
Intersection Summary													
HCM 6th Ctrl Delay			32.2										
HCM 6th LOS			С										

Intersection						
Int Delay, s/veh	0					
		EDD	WDL	WDT	NDL	NDD
Movement Configurations	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	1	/0	0	^	0	7
Traffic Vol., veh/h	370	69	0	992	0	7
Future Vol, veh/h	370	69	0	992	0	7
Conflicting Peds, #/hr	0	0	0	0	0	0
	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	-	0
Veh in Median Storage,		-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	402	75	0	1078	0	8
Major/Minor M	ajor1		/lajor2	_ \	/linor1	
Conflicting Flow All	0	0	- najuiz	-	-	239
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	- / 04
Critical Hdwy	-	-	-	-	-	6.94
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	-	-	-	-	3.32
Pot Cap-1 Maneuver	-	-	0	-	0	762
Stage 1	-	-	0	-	0	-
Stage 2	-	-	0	-	0	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	-	-	-	762
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Annroach	ED		WD		MD	
Approach	EB		WB		NB	
HCM Control Delay, s	0		0		9.8	
HCM LOS					Α	
Minor Lane/Major Mvmt	1	NBLn1	EBT	EBR	WBT	
Capacity (veh/h)		762				
HCM Lane V/C Ratio		0.01	-	-	-	
HCM Control Delay (s)		9.8	-	-	_	
HCM Lane LOS				-	-	
		A	-			
HCM 95th %tile Q(veh)		0	-	-	-	

→	•	•	←	1	~
EBT	EBR	WBL	WBT	NBL	NBR
^	7	ሻ	^	W	
260	117	0	986	6	0
260	117	0	986	6	0
0	0	0	0	0	0
	1.00	1.00		1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00
No			No	No	
1870	1870	1870	1870	1870	1870
283	127	0	1072	127	1
0.92	0.92	0.92	0.92	0.92	0.92
2	2	2	2	2	2
2149	959	4	2149	9999	9999
0.60	0.60	0.00	0.60	0.17	0.17
3647	1585	1781	1839647108	6 500459 384	462592
283	127	0	1072	127	1
1777	1585	1781	1777	1781	1585
1.6	1.6	0.0	8.0	0.0	0.0
1.6	1.6	0.0	8.0	0.0	0.0
	1.00	1.00		1.00	1.00
2149	959	4	3221742996	81110046669	036544
0.13	0.13	0.00	0.50	0.00	0.00
2149	959	151			
1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	0.00	1.00	1.00	1.00
4.0	4.0	0.0	5.3	0.0	0.0
0.1	0.3	0.0	0.2	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0
0.4	0.4	0.0	1.3	0.0	0.0
4.1	4.3	0.0	5.5	0.0	0.0
Α	А	Α	Α	Α	Α
4	2				,
0.0					6
					35.0
					6.5
					36.5
					10.0
0.0	2.3		0.3		7.9
		4.7			
	260 260 0 1.00 No 1870 283 0.92 2 2149 0.60 3647 283 1777 1.6 1.6 2149 0.13 2149 1.00 1.00 4.0 0.1	260 117 260 117 0 0 1.00 1.00 1.00 1.00 1870 1870 283 127 0.92 0.92 2 2 2149 959 0.60 0.60 3647 1585 283 127 1777 1585 1.6 1.6 1.6 1.6 1.00 2149 959 0.13 0.13 2149 959 1.00 1.00 1.00 1.00 4.0 4.0 0.1 0.3 0.0 0.0 0.4 0.4 4.1 4.3 A A 410 4.2 A 1 2 0.0 35.0 4.0 6.5 4.0 28.5 0.0 3.6	260 117 0 260 117 0 0 0 0 1.00 1.00 1.00 1.00 1.00 1.00 1870 1870 1870 283 127 0 0.92 0.92 0.92 2 2 2 2149 959 4 0.60 0.60 0.00 3647 1585 1781 283 127 0 1777 1585 1781 1.6 1.6 0.0 1.00 1.00 1.00 1.00 2149 959 4 0.13 0.13 0.00 2149 959 151 1.00 1.	1 1 1 1 1 1 1 1 1 260 117 0 986 260 117 0 986 0 <	17

	ၨ	→	•	•	←	•	•	†	/	>	↓	✓	
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	*	î,		*	₽		*	^	7	ሻ	^	7	
Traffic Volume (veh/h)	84	159	93	80	994	22	38	32	10	87	1	129	
Future Volume (veh/h)	84	159	93	80	994	22	38	32	10	87	1	129	
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approa		No	1100	1.00	No	1.00	1.00	No	1100	1100	No	1.00	
Adj Sat Flow, veh/h/ln	1752	1870	1752	1752	1870	1752	1752	1752	1752	1752	1752	1752	
Adj Flow Rate, veh/h	84	159	93	80	994	22	38	32	10	87	1	129	
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Percent Heavy Veh, %		2	10	10	2	10	10	10	10	10	10	10	
Cap, veh/h	105	617	361	100	1000	22	57	371	165	109	474	212	
Arrive On Green	0.06	0.56	0.56	0.06	0.55	0.55	0.03	0.11	0.11	0.07	0.14	0.14	
Sat Flow, veh/h	1668	1107	647	1668	1823	40	1668	3328	1485	1668	3328	1485	
Grp Volume(v), veh/h	84	0	252	80	0	1016	38	32	10	87	<u> </u>	129	
Grp Sat Flow(s), veh/h/		0	1754	1668	0	1863	1668	1664	1485	1668	1664	1485	
Q Serve(g_s), s	4.5	0.0	6.7	4.3	0.0	48.6	2.0	0.8	0.5	4.6	0.0	7.3	
		0.0	6.7	4.3		48.6	2.0	0.8	0.5	4.6			
Cycle Q Clear(g_c), s	4.5	0.0			0.0			0.8			0.0	7.3	
Prop In Lane	1.00	0	0.37	1.00	0	0.02	1.00	271	1.00	1.00	171	1.00	
Lane Grp Cap(c), veh/h		0	977	100	0	1022	57	371	165	109	474	212	
V/C Ratio(X)	0.80	0.00	0.26	0.80	0.00	0.99	0.67	0.09	0.06	0.80	0.00	0.61	
Avail Cap(c_a), veh/h	108	0	978	102	0	1022	104	726	324	117	752	335	
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Upstream Filter(I)	1.00	0.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Uniform Delay (d), s/ve		0.0	10.3	41.7	0.0	20.1	42.9	35.8	35.7	41.4	33.0	36.2	
Incr Delay (d2), s/veh	32.6	0.0	0.1	33.9	0.0	26.5	12.7	0.1	0.2	29.6	0.0	2.8	
Initial Q Delay(d3),s/ve		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%), ve		0.0	2.4	2.7	0.0	26.3	1.0	0.3	0.2	2.8	0.0	2.8	
Unsig. Movement Dela	-												
LnGrp Delay(d),s/veh	74.1	0.0	10.4	75.6	0.0	46.6	55.6	35.9	35.9	71.0	33.0	39.0	
LnGrp LOS	<u>E</u>	<u> </u>	В	<u>E</u>	A	D	<u>E</u>	D	D	E	С	D	
Approach Vol, veh/h		336			1096			80			217		
Approach Delay, s/veh		26.3			48.8			45.2			51.8		
Approach LOS		С			D			D			D		
Timer - Assigned Phs	1	2	3	4	5	6	7	8					
Phs Duration (G+Y+Ro	1 00 0	15.8	9.4			18.6	10.2	54.0					
•				54.8 * 4.7	7.1			* 4.7					
Change Period (Y+Rc)		5.8	4.0		4.0	5.8	4.5						
Max Green Setting (Gr		19.6	5.5	* 50	5.6	20.3	5.8	* 49					
Max Q Clear Time (g_c	, .	2.8	6.3	8.7	4.0	9.3	6.5	50.6					
Green Ext Time (p_c),	S U.U	0.1	0.0	1.7	0.0	0.3	0.0	0.0					
Intersection Summary													
HCM 6th Ctrl Delay			44.6										
HCM 6th LOS			D										
Notes													

^{*} HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

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Movement EB	_ EBR	EBR	NBL	NBT	SBT	SBR
Lane Configurations		7	ሻ	ተተተ	ተተተ	7
Traffic Volume (veh/h) 8		176	502	1569	1154	369
Future Volume (veh/h) 8		176	502	1569	1154	369
, ,		0	0	0	0	0
Ped-Bike Adj(A_pbT) 1.0		1.00	1.00			1.00
Parking Bus, Adj 1.0		1.00	1.00	1.00	1.00	1.00
Work Zone On Approach N		1.00	1.00	No	No	1.00
Adj Sat Flow, veh/h/ln 187		1870	1870	1870	1870	1870
Adj Flow Rate, veh/h 8		176	502	1569	1154	369
Peak Hour Factor 1.0		1.00	1.00	1.00	1.00	1.00
,		2	2	2	2	2
Cap, veh/h 26		237	560	3469	1532	476
Arrive On Green 0.1		0.15	0.31	0.68	0.30	0.30
Sat Flow, veh/h 178	1585	1585	1781	5274	5274	1585
Grp Volume(v), veh/h 8	176	176	502	1569	1154	369
Grp Sat Flow(s), veh/h/ln178	1585	1585	1781	1702	1702	1585
Q Serve (q_s) , s 2.	6.5	6.5	16.5	8.7	12.6	13.0
Cycle Q Clear(q_c), s 2.		6.5	16.5	8.7	12.6	13.0
Prop In Lane 1.0		1.00	1.00		1210	1.00
Lane Grp Cap(c), veh/h 26		237	560	3469	1532	476
V/C Ratio(X) 0.3		0.74	0.90	0.45	0.75	0.78
Avail Cap(c_a), veh/h 89		800	667	4031	1787	555
HCM Platoon Ratio 1.0		1.00	1.00	1.00	1.00	1.00
			1.00	1.00	1.00	
		1.00				1.00
Uniform Delay (d), s/veh23.		25.0	20.1	4.6	19.4	19.6
Incr Delay (d2), s/veh 0.		4.5	13.3	0.1	1.6	5.9
Initial Q Delay(d3),s/veh 0.		0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%), veh/lf1.		0.3	8.2	2.0	4.7	5.1
Unsig. Movement Delay, s/v						
LnGrp Delay(d),s/veh 24.		29.5	33.4	4.7	21.0	25.5
LnGrp LOS (C	С	С	Α	С	С
Approach Vol, veh/h 26)			2071	1523	
Approach Delay, s/veh 27.	7			11.6	22.1	
Approach LOS (В	С	
11	,	2		4		,
Timer - Assigned Phs		2		4	5	6
Phs Duration (G+Y+Rc), s		47.5		13.9	23.3	24.2
Change Period (Y+Rc), s		5.8		* 4.7	4.0	5.8
Max Green Setting (Gmax),		48.5		* 31	23.0	21.5
Max Q Clear Time (g_c+I1),	s 10.7	10.7		8.5	18.5	15.0
Green Ext Time (p_c), s	16.5	16.5		8.0	0.8	3.4
Intersection Summary						
			1/ 0			
HCM 6th Ctrl Delay			16.9			
HCM 6th LOS			В			

^{*} HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

•	•	†	/	/	ļ

Lane Configurations	Movement WBL	WBR	NBT	NBR	SBL	SBT	
Traffic Volume (veh/h) 74 313 2029 28 116 1220 Future Volume (veh/h) 74 313 2029 28 116 1220 Initial O (ob), veh 0 0 0 0 0 0 Ped-Bike Adj(A_pbT) 1.00 1.00 1.00 1.00 1.00 Work Zone On Approach No No No No No Adj Sat Flow, veh/hiri 1870 1870 1870 1870 1870 Adj Flow Rate, veh/h 74 313 2029 28 116 1220 Peak Hour Factor 1.00 1.00 1.00 1.00 1.00 1.00 Peak Hour Factor 1.00 1.00 1.00 1.00 1.00 1.00 Peak Hour Factor 1.00 1.00 1.00 1.00 1.00 1.00 Peac Hour Factor 1.00 1.00 1.00 1.00 1.00 1.00 Arive On Green 0.23 2.02							
Future Volume (veh/h) 74 313 2029 28 116 1220 Initial Q (Qb), veh 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	•						
Ped-Bike Adj(A_pbT) 1.00 </td <td>, ,</td> <td>313</td> <td>2029</td> <td>28</td> <td>116</td> <td>1220</td> <td></td>	, ,	313	2029	28	116	1220	
Parking Bus, Adj 1.00 1.00 1.00 1.00 1.00 1.00 1.00 No Work Zone On Approach No Adj Sat Flow, veh/h/ln 1870 1870 1870 1870 1870 1870 Adj Flow Rate, veh/h 74 313 2029 28 116 1220 Peak Hour Factor 1.00 1.00 1.00 1.00 1.00 1.00 Percent Heavy Veh, 8 2 2 2 2 2 2 2 Cap, veh/h 413 368 2489 773 147 3190 Arrive On Green 0.23 0.23 0.49 0.49 0.08 0.62 Sat Flow, veh/h 1781 1585 5274 1585 1781 5274 Grp Volume(v), veh/h 74 313 2029 28 116 1220 Grp Sat Flow(s), veh/h/ln/181 1585 5274 1585 1781 5274 Grp Volume(v), veh/h 74 313 2029 28 116 1220 Grp Sat Flow(s), veh/h/ln/181 1585 1702 1585 1781 1702 Q Serve(g_s), s 2.4 13.8 24.8 0.7 4.7 8.6 Cycle Q Clear(g_c), s 2.4 13.8 24.8 0.7 4.7 8.6 Prop In Lane 1.00 1.00 1.00 1.00 Lane Grp Cap(c), veh/h 413 368 2489 773 147 3190 V/C Ratio(X) 0.18 0.85 0.82 0.04 0.79 0.38 Avail Cap(c_a), veh/h 754 671 2614 811 170 3381 HCM Platon Ratio 1.00 1.00 1.00 1.00 1.00 1.00 Upstream Filter(I) 1.00 1.00 1.00 1.00 1.00 1.00 Upstream Filter(I) 1.00 1.00 1.00 1.00 1.00 1.00 Upstream Filter(I) 1.00 1.00 1.00 1.00 1.00 1.00 Uniforn Delay (d), s/veh 22.5 26.9 16.0 9.8 33.0 6.8 Incr Delay (d2), s/veh 0.2 5.6 2.0 0.0 18.9 0.1 Initial O Delay(d3), s/veh 0.0 0.0 0.0 0.0 0.0 0.0 %ile BackOlQ(50%), veh/ln 0.5 5 8.9 0.2 2.7 2.6 Unsig. Movement Delay, s/veh LnGrp Delay(d), s/veh 22.7 32.5 18.0 9.8 51.9 6.9 LnGrp Delay(d), s/veh 22.7 32.5 18.0 9.8 51.9 6.9 LnGrp Delay(d), s/veh 387 2057 1336 Approach Delay, s/veh 30.6 17.9	Initial Q (Qb), veh 0	0	0	0	0	0	
Work Zöne On Ápproach No No Adj Staf Flow, yeh/h/ln 1870 1870 1870 1870 1870 Adj Flow Rate, veh/h 74 313 2029 28 116 1220 Peak Hour Factor 1.00 1.00 1.00 1.00 1.00 1.00 Percent Heavy Veh, % 2	Ped-Bike Adj(A_pbT) 1.00	1.00		1.00	1.00		
Adj Sat Flow, veh/h/ln 1870 1870 1870 1870 1870 1870 Adj Flow Rate, veh/h 74 313 2029 28 116 1220 Peak Hour Factor 1.00 1.00 1.00 1.00 1.00 1.00 Percent Heavy Veh, % 2 2 2 2 2 2 Cap, veh/h 413 368 2489 773 147 3190 Arrive On Green 0.23 0.23 0.49 0.49 0.08 0.62 Sat Flow, veh/h 1781 1585 5274 1585 1781 5274 Grp Volume(v), veh/h 74 313 2029 28 116 1220 Grp Sat Flow(s),veh/h/h/ln/181 1585 1781 1702 1702 0 0 0 4.7 8.6 Cycle Q Clear(g_c), s 2.4 13.8 24.8 0.7 4.7 8.6 1702 1702 1702 1702 1702 1702 1702	Parking Bus, Adj 1.00	1.00	1.00	1.00	1.00	1.00	
Adj Flow Rate, veh/h 74 313 2029 28 116 1220 Peak Hour Factor 1.00 1.00 1.00 1.00 1.00 1.00 Percent Heavy Veh, % 2 2 2 2 2 2 2 Cap, veh/h 413 368 2489 773 3147 3190 Arrive On Green 0.23 0.23 0.49 0.49 0.08 0.62 Sat Flow, veh/h 1781 1585 5274 1585 1781 5274 Grp Volume(v), veh/h 74 313 2029 28 116 1220 Grp Sat Flow(s),veh/h/In1781 1585 1702 1585 1781 1702 0 Q Serve(g., s), s 2.4 13.8 24.8 0.7 4.7 8.6 Cycle Q Clear(g_c), s 2.4 13.8 24.8 0.7 4.7 8.6 Cycle Q Clear(g_c), veh/h 413 368 2489 773 147 3190 V/C Ratio(X) 0.18 0.85 0.82 0.04 0.79 0.38 </td <td>Work Zone On Approach No</td> <td></td> <td>No</td> <td></td> <td></td> <td>No</td> <td></td>	Work Zone On Approach No		No			No	
Peak Hour Factor 1.00 1.00 1.00 1.00 1.00 1.00 Percent Heavy Veh, % 2 2 2 2 2 2 2 Cap, veh/h 413 368 2489 773 147 3190 Arrive On Green 0.23 0.23 0.49 0.49 0.08 0.62 Sat Flow, veh/h 1781 1585 5274 1585 1781 5274 Grp Volume(v), veh/h 74 313 2029 28 116 1220 Grp Sat Flow(s),veh/h/hlm/781 1585 1702 1585 1781 1702 Q Serve(g_s), s 2.4 13.8 24.8 0.7 4.7 8.6 Cycle Q Clear(g_c), s 2.4 13.8 24.8 0.7 4.7 8.6 Prop In Lane 1.00 1.00 1.00 1.00 1.00 V/C Ratio(X) 0.18 0.85 0.82 0.04 0.79 0.38 Avail Cap(c_a), veh/h 7	Adj Sat Flow, veh/h/ln 1870	1870	1870	1870	1870	1870	
Percent Heavy Veh, % 2 2 2 2 2 2 2 Cap, veh/h 413 368 2489 773 147 3190 Arrive On Green 0.23 0.23 0.49 0.49 0.08 0.62 Sat Flow, veh/h 1781 1585 5274 1585 1781 5274 Grp Volume(v), veh/h 74 313 0229 28 116 1220 Grp Sat Flow(s), veh/h/ln1781 1585 1702 1585 1781 1702 Q Serve(g, s), s 2.4 13.8 24.8 0.7 4.7 8.6 Cycle O Clear(g_c), s 2.4 13.8 24.8 0.7 4.7 8.6 Cycle O Clear(g_c), s 2.4 13.8 24.8 0.7 4.7 8.6 Prop In Lane 1.00 1.00 1.00 1.00 1.00 Lane Grp Cap(c), veh/h 413 368 2489 773 147 3190 V/C Ratio(X) 0.18 0.85 0.82 0.04 0.79 0.38 Avail Cap(_a), veh/h 754 671 2614 811 170 3381 HCM Platoon Ratio 1.00 1.00 1.00 1.00 1.00 1.00 Upstream Filter(f) 1.00 1.00 1.00 1.00 1.00 1.00 Upstream Filter(f) 1.00 1.00 1.00 1.00 1.00 1.00 Uniform Delay (d), s/veh 2.2 5 26.9 16.0 9.8 33.0 6.8 Incr Delay (d2), s/veh 0.2 5.6 2.0 0.0 18.9 0.1 Initial Q Delay(d3), s/veh 0.0 0.0 0.0 0.0 0.0 0.0 Sille BackOfQ(50%), veh/ln.0 5.5 8.9 0.2 2.7 2.6 Unsig. Movement Delay, s/veh LnGrp Delay(d), s/veh 22.7 32.5 18.0 9.8 51.9 6.9 LnGrp Delay(d), s/veh 387 2057 1336 Approach Vol, veh/h 387 2057 1336 Approach Delay, s/veh	Adj Flow Rate, veh/h 74	313	2029	28		1220	
Cap, veh/h 413 368 2489 773 147 3190 Arrive On Green 0.23 0.23 0.49 0.49 0.08 0.62 Sat Flow, veh/h 1781 1585 5274 1585 1781 5274 Grp Volume(v), veh/h 74 313 2029 28 116 1220 Grp Sat Flow(s), veh/h/Inf781 1585 1702 1585 1781 1702 Q Serve(g_s), s 2.4 13.8 24.8 0.7 4.7 8.6 Cycle Q Clear(g_c), s 2.4 13.8 24.8 0.7 4.7 8.6 Prop In Lane 1.00 1.00 1.00 1.00 1.00 Lane Grp Cap(c), veh/h 413 368 2489 773 147 3190 V/C Ratio(X) 0.18 0.85 0.82 0.04 0.79 0.38 Avail Cap(c_a), veh/h 754 671 2614 811 170 3381 HCM Platoon Ratio 1.00 <td>Peak Hour Factor 1.00</td> <td>1.00</td> <td>1.00</td> <td>1.00</td> <td>1.00</td> <td>1.00</td> <td></td>	Peak Hour Factor 1.00	1.00	1.00	1.00	1.00	1.00	
Arrive On Green 0.23 0.23 0.49 0.49 0.08 0.62 Sat Flow, veh/h 1781 1585 5274 1585 1781 5274 Grp Volume(v), veh/h 74 313 2029 28 116 1220 Grp Sat Flow(s), veh/h/Int781 1585 1702 1585 1781 1702 Q Serve(g_s), s 2.4 13.8 24.8 0.7 4.7 8.6 Cycle Q Clear(g_c), s 2.4 13.8 24.8 0.7 4.7 8.6 Prop In Lane 1.00 1.00 1.00 1.00 1.00 Lane Grp Cap(c), veh/h 413 368 2489 773 147 3190 V/C Ratio(X) 0.18 0.85 0.82 0.04 0.79 0.38 Avail Cap(c_a), veh/h 754 671 2614 811 170 3381 HCM Platoon Ratio 1.00 1.00 1.00 1.00 1.00 1.00 Upstream Filter(l) 1.00 1.00 1.00 1.00 1.00 1.00 Upstream Filter(l) 1.00 1.00 1.00 1.00 1.00 1.00 Uniform Delay (d), s/veh 2.5 26.9 16.0 9.8 33.0 6.8 Incr Delay (d2), s/veh 0.2 5.6 2.0 0.0 18.9 0.1 Initial Q Delay(d3), s/veh 0.0 0.0 0.0 0.0 0.0 0.0 %ile BackOfQ(50%), veh/ln1.0 5.5 8.9 0.2 2.7 2.6 Unsig. Movement Delay, s/veh LnGrp Delay(d), s/veh 22.7 32.5 18.0 9.8 51.9 6.9 LnGrp LOS C C B A D A Approach Vol, veh/h 387 2057 1336 Approach Delay, s/veh 30.6 17.9 10.8		2	2				
Sat Flow, veh/h 1781 1585 5274 1585 1781 5274 Grp Volume(v), veh/h 74 313 2029 28 116 1220 Grp Sat Flow(s), veh/h/ln1781 1585 1702 1585 1781 1702 Q Serve(g_s), s 2.4 13.8 24.8 0.7 4.7 8.6 Cycle Q Clear(g_c), s 2.4 13.8 24.8 0.7 4.7 8.6 Prop In Lane 1.00 1.00 1.00 1.00 1.00 Lane Grp Cap(c), veh/h 413 368 2489 773 147 3190 V/C Ratio(X) 0.18 0.85 0.82 0.04 0.79 0.38 Avail Cap(c_a), veh/h 754 671 2614 811 170 3381 HCM Platoon Ratio 1.00 1.00 1.00 1.00 1.00 1.00 Uniform Delay (d), s/veb-22.5 26.9 16.0 9.8 33.0 6.8 Incr Delay (d2), s/veh 0	Cap, veh/h 413	368	2489	773	147	3190	
Grp Volume(v), veh/h 74 313 2029 28 116 1220 Grp Sat Flow(s),veh/h/ln1781 1585 1702 1585 1781 1702 Q Serve(g_s), s 2.4 13.8 24.8 0.7 4.7 8.6 Cycle Q Clear(g_c), s 2.4 13.8 24.8 0.7 4.7 8.6 Prop In Lane 1.00 1.00 1.00 1.00 Lane Grp Cap(c), veh/h 413 368 2489 773 147 3190 V/C Ratio(X) 0.18 0.85 0.82 0.04 0.79 0.38 Avail Cap(c_a), veh/h 754 671 2614 811 170 3381 HCM Platoon Ratio 1.00 1.00 1.00 1.00 1.00 1.00 Upstream Filter(I) 1.00 1.00 1.00 1.00 1.00 1.00 Uniform Delay (d), s/veh22.5 26.9 16.0 9.8 33.0 6.8 Incr Delay (d2), s/veh 0.2 5.6 2.0 0.0 18.9 0.1 Initial Q Delay(d3),s/veh 0.0 0.0 0.0 0.0 0.0 0.0 0.0 %ile BackOfC(50%),veh/l/1.0 5.5 8.9 0.2 2.7 2.6 Unsig. Movement Delay, s/veh LnGrp Delay(d), s/veh/ 22.7 32.5 18.0 9.8 51.9 6.9 LnGrp LOS C C B A D A Approach Vol, veh/h 387 2057 1336 Approach Delay, s/veh 30.6 17.9 10.8	Arrive On Green 0.23	0.23	0.49	0.49	0.08	0.62	
Grp Sat Flow(s),veh/h/ln1781 1585 1702 1585 1781 1702 Q Serve(g_s), s 2.4 13.8 24.8 0.7 4.7 8.6 Cycle Q Clear(g_c), s 2.4 13.8 24.8 0.7 4.7 8.6 Prop In Lane 1.00 1.00 1.00 1.00 Lane Grp Cap(c), veh/h 413 368 2489 773 147 3190 V/C Ratio(X) 0.18 0.85 0.82 0.04 0.79 0.38 Avail Cap(c_a), veh/h 754 671 2614 811 170 3381 HCM Platoon Ratio 1.00 1.00 1.00 1.00 1.00 1.00 Upstream Filter(I) 1.00 1.00 1.00 1.00 1.00 1.00 Uniform Delay (d), s/veh 22.5 26.9 16.0 9.8 33.0 6.8 Incr Delay (d2), s/veh 0.2 5.6 2.0 0.0 18.9 0.1 Initial Q Delay(d3),s/veh 0.0 0.0 0.0 0.0 0.0 0.0 %ile BackOfQ(50%),veh/lf1.0 5.5 8.9 0.2 2.7 2.6 Unsig. Movement Delay, s/veh LnGrp Delay(d),s/veh 22.7 32.5 18.0 9.8 51.9 6.9 LnGrp LOS C C B A D A Approach Vol, veh/h 387 2057 1336 Approach Delay, s/veh 30.6 17.9 10.8	Sat Flow, veh/h 1781	1585	5274	1585	1781	5274	
Q Serve(g_s), s 2.4 13.8 24.8 0.7 4.7 8.6 Cycle Q Clear(g_c), s 2.4 13.8 24.8 0.7 4.7 8.6 Prop In Lane 1.00 1.00 1.00 1.00 Lane Grp Cap(c), veh/h 413 368 2489 773 147 3190 V/C Ratio(X) 0.18 0.85 0.82 0.04 0.79 0.38 Avail Cap(c_a), veh/h 754 671 2614 811 170 3381 HCM Platoon Ratio 1.00 1.00 1.00 1.00 1.00 1.00 Upstream Filter(I) 1.00 1.00 1.00 1.00 1.00 1.00 Uniform Delay (d), s/veh22.5 26.9 16.0 9.8 33.0 6.8 Incr Delay (d2), s/veh 0.2 5.6 2.0 0.0 18.9 0.1 Initial Q Delay(d3),s/veh 0.0 0.0 0.0 0.0 0.0 0.0 Wile BackOf(Q(50%),veh/lr1.0 5.5 8.9 0.2 2.7 2.6 Unsig. Movement Delay, s/veh	Grp Volume(v), veh/h 74	313	2029	28	116	1220	
Cycle Q Clear(g_c), s 2.4 13.8 24.8 0.7 4.7 8.6 Prop In Lane 1.00 1.00 1.00 1.00 Lane Grp Cap(c), veh/h 413 368 2489 773 147 3190 V/C Ratio(X) 0.18 0.85 0.82 0.04 0.79 0.38 Avail Cap(c_a), veh/h 754 671 2614 811 170 3381 HCM Platoon Ratio 1.00 1.00 1.00 1.00 1.00 1.00 1.00 Upstream Filter(I) 1.00 1.00 1.00 1.00 1.00 1.00 1.00 Uniform Delay (d), s/veh22.5 26.9 16.0 9.8 33.0 6.8 Incr Delay (d2), s/veh 0.2 5.6 2.0 0.0 18.9 0.1 Initial Q Delay(d3),s/veh 0.0 0.0 0.0 0.0 0.0 0.0 %ile BackOfQ(50%),veh/lr1.0 5.5 8.9 0.2 2.7 2.6 Unsig. Movement Delay, s/veh LnGrp Delay(d),s/veh 22.7 32.5 18.0 9.8 51.9 6.9 LnGrp LOS C C B A D A Approach Vol, veh/h 387 2057 1336 Approach Delay, s/veh 30.6 17.9 10.8			1702	1585	1781	1702	
Prop In Lane 1.00 1.00 1.00 1.00 Lane Grp Cap(c), veh/h 413 368 2489 773 147 3190 V/C Ratio(X) 0.18 0.85 0.82 0.04 0.79 0.38 Avail Cap(c_a), veh/h 754 671 2614 811 170 3381 HCM Platoon Ratio 1.00 1.00 1.00 1.00 1.00 1.00 Upstream Filter(I) 1.00 1.00 1.00 1.00 1.00 1.00 Uniform Delay (d), s/veh22.5 26.9 16.0 9.8 33.0 6.8 Incr Delay (d2), s/veh 0.2 5.6 2.0 0.0 18.9 0.1 Initial Q Delay(d3),s/veh 0.0 0.0 0.0 0.0 0.0 %ile BackOfQ(50%),veh/ln1.0 5.5 8.9 0.2 2.7 2.6 Unsig. Movement Delay, s/veh 22.7 32.5 18.0 9.8 51.9 6.9 LnGrp LOS C C B A D A Approach Vol, veh/h 387 2057<		13.8	24.8	0.7	4.7	8.6	
Lane Grp Cap(c), veh/h 413 368 2489 773 147 3190 V/C Ratio(X) 0.18 0.85 0.82 0.04 0.79 0.38 Avail Cap(c_a), veh/h 754 671 2614 811 170 3381 HCM Platoon Ratio 1.00 1.00 1.00 1.00 1.00 1.00 1.00 Upstream Filter(I) 1.00 1.00 1.00 1.00 1.00 1.00 Uniform Delay (d), s/veh22.5 26.9 16.0 9.8 33.0 6.8 Incr Delay (d2), s/veh 0.2 5.6 2.0 0.0 18.9 0.1 Initial Q Delay(d3),s/veh 0.0 0.0 0.0 0.0 0.0 %ile BackOfQ(50%),veh/lf1.0 5.5 8.9 0.2 2.7 2.6 Unsig. Movement Delay, s/veh LnGrp Delay(d),s/veh 22.7 32.5 18.0 9.8 51.9 6.9 LnGrp LOS C C B A D A Approach Vol, veh/h 387 2057 1336 Approach Delay, s/veh 30.6 17.9 10.8		13.8	24.8	0.7	4.7	8.6	
V/C Ratio(X) 0.18 0.85 0.82 0.04 0.79 0.38 Avail Cap(c_a), veh/h 754 671 2614 811 170 3381 HCM Platoon Ratio 1.00 1.00 1.00 1.00 1.00 1.00 Upstream Filter(I) 1.00 1.00 1.00 1.00 1.00 Uniform Delay (d), s/veh22.5 26.9 16.0 9.8 33.0 6.8 Incr Delay (d2), s/veh 0.2 5.6 2.0 0.0 18.9 0.1 Initial Q Delay(d3),s/veh 0.0 0.0 0.0 0.0 0.0 0.0 %ile BackOfQ(50%),veh/lri1.0 5.5 8.9 0.2 2.7 2.6 Unsig. Movement Delay, s/veh 22.7 32.5 18.0 9.8 51.9 6.9 LnGrp LOS C C B A D A Approach Vol, veh/h 387 2057 1336 Approach Delay, s/veh 30.6 17.9 10.8	Prop In Lane 1.00	1.00		1.00	1.00		
Avail Cap(c_a), veh/h 754 671 2614 811 170 3381 HCM Platoon Ratio 1.00 1.00 1.00 1.00 1.00 1.00 Upstream Filter(I) 1.00 1.00 1.00 1.00 1.00 1.00 Uniform Delay (d), s/veh22.5 26.9 16.0 9.8 33.0 6.8 Incr Delay (d2), s/veh 0.2 5.6 2.0 0.0 18.9 0.1 Initial Q Delay(d3),s/veh 0.0 0.0 0.0 0.0 0.0 0.0 %ile BackOfQ(50%), veh/l1.0 5.5 8.9 0.2 2.7 2.6 Unsig. Movement Delay, s/veh LnGrp Delay(d),s/veh 22.7 32.5 18.0 9.8 51.9 6.9 LnGrp LOS C C B A D A Approach Vol, veh/h 387 2057 1336 Approach Delay, s/veh 30.6 17.9 10.8							
HCM Platoon Ratio 1.00 1.00 1.00 1.00 1.00 1.00 1.00 Upstream Filter(I) 1.00 1.00 1.00 1.00 1.00 1.00 Uniform Delay (d), s/veh 22.5 26.9 16.0 9.8 33.0 6.8 Incr Delay (d2), s/veh 0.2 5.6 2.0 0.0 18.9 0.1 Initial Q Delay(d3),s/veh 0.0 0.0 0.0 0.0 0.0 0.0 %ile BackOfQ(50%), veh/ln1.0 5.5 8.9 0.2 2.7 2.6 Unsig. Movement Delay, s/veh LnGrp Delay(d),s/veh 22.7 32.5 18.0 9.8 51.9 6.9 LnGrp LOS C C B A D A Approach Vol, veh/h 387 2057 1336 Approach Delay, s/veh 30.6 17.9 10.8							
Upstream Filter(I) 1.00 1.00 1.00 1.00 1.00 1.00 Uniform Delay (d), s/veh22.5 26.9 16.0 9.8 33.0 6.8 Incr Delay (d2), s/veh 0.2 5.6 2.0 0.0 18.9 0.1 Initial Q Delay(d3),s/veh 0.0 0.0 0.0 0.0 0.0 0.0 %ile BackOfQ(50%), veh/li1.0 5.5 8.9 0.2 2.7 2.6 Unsig. Movement Delay, s/veh LnGrp Delay(d),s/veh 22.7 32.5 18.0 9.8 51.9 6.9 LnGrp LOS C C B A D A Approach Vol, veh/h 387 2057 1336 Approach Delay, s/veh 30.6 17.9 10.8	1 \ - 7						
Uniform Delay (d), s/veh 22.5 26.9 16.0 9.8 33.0 6.8 Incr Delay (d2), s/veh 0.2 5.6 2.0 0.0 18.9 0.1 Initial Q Delay(d3),s/veh 0.0 0.0 0.0 0.0 0.0 0.0 %ile BackOfQ(50%),veh/lr1.0 5.5 8.9 0.2 2.7 2.6 Unsig. Movement Delay, s/veh LnGrp Delay(d),s/veh 22.7 32.5 18.0 9.8 51.9 6.9 LnGrp LOS C C B A D A Approach Vol, veh/h 387 2057 1336 Approach Delay, s/veh 30.6 17.9 10.8							
Incr Delay (d2), s/veh	1						
Initial Q Delay(d3),s/veh 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.							
%ile BackOfQ(50%), veh/lr1.0 5.5 8.9 0.2 2.7 2.6 Unsig. Movement Delay, s/veh LnGrp Delay(d), s/veh 22.7 32.5 18.0 9.8 51.9 6.9 LnGrp LOS C C B A D A Approach Vol, veh/h 387 2057 1336 Approach Delay, s/veh 30.6 17.9 10.8							
Unsig. Movement Delay, s/veh LnGrp Delay(d),s/veh 22.7 32.5 18.0 9.8 51.9 6.9 LnGrp LOS C C B A D A Approach Vol, veh/h 387 2057 1336 Approach Delay, s/veh 30.6 17.9 10.8							
LnGrp Delay(d),s/veh 22.7 32.5 18.0 9.8 51.9 6.9 LnGrp LOS C C B A D A Approach Vol, veh/h 387 2057 1336 Approach Delay, s/veh 30.6 17.9 10.8	, ,		8.9	0.2	2.7	2.6	
LnGrp LOS C C B A D A Approach Vol, veh/h 387 2057 1336 Approach Delay, s/veh 30.6 17.9 10.8							
Approach Vol, veh/h 387 2057 1336 Approach Delay, s/veh 30.6 17.9 10.8	J . ,						
Approach Delay, s/veh 30.6 17.9 10.8		<u>C</u>		A	<u>D</u>		
	· ·						
Approach LOS C B B							
	Approach LOS C		В			В	
Timer - Assigned Phs 1 2 6 8		2			<u></u>	6	8
Phs Duration (G+Y+Rc), 10.1 41.5 51.6 21.7	, ,						
Change Period (Y+Rc), s 4.0 5.8 5.8 4.7						5.8	
Max Green Setting (Gmax), 0s 37.5 48.5 31.0							
Max Q Clear Time (g_c+l1),7s 26.8 10.6 15.8							
Green Ext Time (p_c), s 0.0 8.9 11.5 1.2	Green Ext Time (p_c), s 0.0	8.9				11.5	1.2
Intersection Summary	Intersection Summary						
HCM 6th Ctrl Delay 16.7	HCM 6th Ctrl Delay		16.7				
	HCM 6th LOS		В				

	۶	→	•	•	←	•	4	†	<i>></i>	/	ļ	✓	
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	*	†	1	*	†	7	ች	ተተተ	7	ች	ተተተ	7	
Traffic Volume (veh/h)	7	3	17	204	1	433	127	1713	20	251	1020	48	
Future Volume (veh/h)	7	3	17	204	1	433	127	1713	20	251	1020	48	
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)	1.00	-	1.00	1.00		1.00	1.00		1.00	1.00	_	1.00	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approac		No			No			No			No		
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	
Adj Flow Rate, veh/h	7	3	17	204	1	433	127	1713	20	251	1020	48	
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2	
Cap, veh/h	16	138	117	240	373	316	160	2124	659	287	2586	803	
Arrive On Green	0.01	0.07	0.07	0.13	0.20	0.20	0.09	0.42	0.42	0.16	0.51	0.51	
Sat Flow, veh/h	1781	1870	1585	1781	1870	1585	1781	5106	1585	1781	5106	1585	
Grp Volume(v), veh/h	7	3	17	204	1	433	127	1713	20	251	1020	48	
Grp Sat Flow(s), veh/h/li		1870	1585	1781	1870	1585	1781	1702	1585	1781	1702	1585	
Q Serve(g_s), s	0.4	0.1	1.0	10.6	0.0	12.5	6.6	27.9	0.4	13.0	11.7	1.5	
Cycle Q Clear(g_c), s	0.4	0.1	1.0	10.6	0.0	12.5	6.6	27.9	0.4	13.0	11.7	1.5	
Prop In Lane	1.00	0.1	1.00	1.00	0.0	1.00	1.00	21.7	1.00	1.00	1 17	1.00	
Lane Grp Cap(c), veh/h		138	117	240	373	316	160	2124	659	287	2586	803	
V/C Ratio(X)	0.44	0.02	0.15	0.85	0.00	1.37	0.79	0.81	0.03	0.87	0.39	0.06	
Avail Cap(c_a), veh/h	104	692	586	282	879	745	329	2325	722	346	2586	803	
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Uniform Delay (d), s/vel		40.6	41.0	40.0	30.3	16.5	42.2	24.3	5.7	38.8	14.4	11.9	
Incr Delay (d2), s/veh	18.2	0.1	0.6	19.0	0.0	173.0	8.6	2.0	0.0	18.7	0.1	0.0	
Initial Q Delay(d3),s/vel		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),vel		0.1	0.4	5.8	0.0	19.5	3.3	11.1	0.3	7.1	4.3	0.5	
Unsig. Movement Delay			0.1	0.0	0.0	17.0	0.0		0.0	,	1.0	0.0	
LnGrp Delay(d),s/veh	64.9	40.7	41.6	59.0	30.3	189.5	50.8	26.3	5.8	57.5	14.5	11.9	
LnGrp LOS	E	D	D	57.0 E	C	F	D	20.5 C	Α.	57.5 E	В	В	
Approach Vol, veh/h	<u> </u>	27	D D	<u> </u>	638	<u>'</u>	<u> </u>	1860		<u> </u>	1319	U	
Approach Delay, s/veh		47.5			147.5			27.8			22.6		
Approach LOS		47.5 D			147.5 F			27.0 C			22.0 C		
					'		_						
Timer - Assigned Phs	1	2	3	4	5	6	7	8					
Phs Duration (G+Y+Rc)		45.2	16.7	11.7	12.5	53.7	4.8	23.6					
Change Period (Y+Rc),		* 5.8	4.0	* 4.7	4.0	5.8	4.0	* 4.7					
Max Green Setting (Gm		* 43	15.0	* 35	17.5	44.0	5.5	* 45					
Max Q Clear Time (g_c			12.6	3.0	8.6	13.7	2.4	14.5					
Green Ext Time (p_c), s	5 0.2	9.5	0.1	0.0	0.2	8.8	0.0	1.6					
Intersection Summary													
HCM 6th Ctrl Delay			46.0										
HCM 6th LOS			D										
Notes													

^{*} HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations				75	4	77		^			1111	7
Traffic Volume (veh/h)	0	0	0	1023	9	1367	3	705	0	0	1458	88
Future Volume (veh/h)	0	0	0	1023	9	1367	3	705	0	0	1458	88
Initial Q (Qb), veh				0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)				1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach					No			No			No	
Adj Sat Flow, veh/h/ln				1678	1678	1678	1678	1678	0	0	1678	1678
Adj Flow Rate, veh/h				1029	0	0	3	705	0	0	1458	0
Peak Hour Factor				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Percent Heavy Veh, %				15	15	15	15	15	0	0	15	15
Cap, veh/h				1597	0		94	1300	0	0	2408	
Arrive On Green				0.33	0.00	0.00	0.42	0.42	0.00	0.00	0.42	0.00
Sat Flow, veh/h				4793	0	2844	3	3191	0	0	6006	1422
Grp Volume(v), veh/h				1029	0	0	379	329	0	0	1458	0
Grp Sat Flow(s),veh/h/ln				1598	0	1422	1667	1450	0	0	1443	1422
Q Serve(g_s), s				7.1	0.0	0.0	0.0	6.7	0.0	0.0	7.7	0.0
Cycle Q Clear(g_c), s				7.1	0.0	0.0	6.6	6.7	0.0	0.0	7.7	0.0
Prop In Lane				1.00		1.00	0.01		0.00	0.00		1.00
Lane Grp Cap(c), veh/h				1597	0		789	605	0	0	2408	
V/C Ratio(X)				0.64	0.00		0.48	0.54	0.00	0.00	0.61	
Avail Cap(c_a), veh/h				3205	0		1962	1652	0	0	3458	
HCM Platoon Ratio				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)				1.00	0.00	0.00	1.00	1.00	0.00	0.00	1.00	0.00
Uniform Delay (d), s/veh				11.0	0.0	0.0	8.5	8.5	0.0	0.0	8.8	0.0
Incr Delay (d2), s/veh				0.3	0.0	0.0	0.2	0.3	0.0	0.0	0.1	0.0
Initial Q Delay(d3),s/veh				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln				1.9	0.0	0.0	1.7	1.5	0.0	0.0	1.7	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh				11.3	0.0	0.0	8.7	8.8	0.0	0.0	8.9	0.0
LnGrp LOS				В	A		A	A	A	A	A	
Approach Vol, veh/h					1029	Α		708			1458	Α
Approach Delay, s/veh					11.3			8.8			8.9	
Approach LOS					В			Α			Α	
Timer - Assigned Phs		2				6		8				
Phs Duration (G+Y+Rc), s		21.9				21.9		17.0				
Change Period (Y+Rc), s		5.7				5.7		5.1				
Max Green Setting (Gmax), s		44.3				23.3		24.9				
Max Q Clear Time (g_c+I1), s		8.7				9.7		9.1				
Green Ext Time (p_c), s		3.2				6.6		2.8				
Intersection Summary												
HCM 6th Ctrl Delay			9.6									
HCM 6th LOS			Α									

User approved volume balancing among the lanes for turning movement.

Unsignalized Delay for [WBR, SBR] is excluded from calculations of the approach delay and intersection delay.

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	ች	4	7					ተተተ	77		ተተተ		
Traffic Volume (veh/h)	182	0	86	0	0	0	0	549	1951	0	1489	0	
Future Volume (veh/h)	182	0	86	0	0	0	0	549	1951	0	1489	0	
Initial Q (Qb), veh	0	0	0				0	0	0	0	0	0	
	1.00	•	1.00				1.00	v	1.00	1.00	•	1.00	
	1.00	1.00	1.00				1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approach		No						No			No		
	1678	1678	1678				0	1678	1678	0	1678	0	
Adj Flow Rate, veh/h	209	0	57				0	549	1951	0	1489	0	
	1.00	1.00	1.00				1.00	1.00	1.00	1.00	1.00	1.00	
Percent Heavy Veh, %	15	15	15				0	15	15	0	15	0	
Cap, veh/h	425	0	189				0	3433	1875	0	3433	0	
	0.13	0.00	0.13				0.00	0.75	0.75	0.00	0.75	0.00	
	3196	0.00	1422				0.00	4731	2502	0.00	4882	0.00	
Grp Volume(v), veh/h	209	0	57				0	549	1951	0	1489	0	
Grp Sat Flow(s), veh/h/ln1		0	1422				0	1527	1251	0	1527	0	
Q Serve(g_s), s	4.1	0.0	2.5				0.0	2.3	51.0	0.0	8.2	0.0	
Cycle Q Clear(g_c), s	4.1	0.0	2.5				0.0	2.3	51.0	0.0	8.2	0.0	
	1.00	0.0	1.00				0.00	2.0	1.00	0.00	0.2	0.00	
	425	0	189				0.00	3433	1875	0.00	3433	0.00	
1 1 1 7	0.49	0.00	0.30				0.00	0.16	1.04	0.00	0.43	0.00	
Avail Cap(c_a), veh/h	986	0.00	439				0.00	3433	1875	0.00	3433	0.00	
$\cdot \cdot = \cdot$	1.00	1.00	1.00				1.00	1.00	1.00	1.00	1.00	1.00	
	1.00	0.00	1.00				0.00	1.00	1.00	0.00	1.00	0.00	
1 ()		0.00	26.6				0.00	2.4	8.5	0.00	3.2	0.00	
Uniform Delay (d), s/veh	0.3	0.0	0.3				0.0	0.1	32.1	0.0	0.4	0.0	
Incr Delay (d2), s/veh Initial Q Delay(d3),s/veh		0.0	0.0				0.0	0.0	0.0	0.0	0.4	0.0	
		0.0	0.0				0.0	0.0	15.3	0.0	1.5	0.0	
%ile BackOfQ(50%),veh/			0.0				0.0	0.4	10.5	0.0	1.5	0.0	
Unsig. Movement Delay,		0.0	27.0				0.0	2.5	40.6	0.0	3.6	0.0	
1 7 7	27.7 C												
LnGrp LOS	U	A	С				A	A	F	A	A 4400	A	
Approach Vol, veh/h		266						2500			1489		
Approach Delay, s/veh		27.5						32.3			3.6		
Approach LOS		С						С			Α		
Timer - Assigned Phs		2		4		6							
Phs Duration (G+Y+Rc),	S	55.0		13.0		55.0							
Change Period (Y+Rc), s	3	5.7		5.1		5.7							
Max Green Setting (Gma		49.3		19.9		49.3							
Max Q Clear Time (g_c+		53.0		6.1		10.2							
Green Ext Time (p_c), s	,,	0.0		0.1		10.1							
Intersection Summary													
HCM 6th Ctrl Delay			21.9										
HCM 6th LOS			С										
Notes													

User approved volume balancing among the lanes for turning movement.

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Movement EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	†	7	14.54	+	7	7	^	77	44	^	7	
Traffic Volume (veh/h) 52	50	94	777	41	333	141	974	598	251	1194	26	
Future Volume (veh/h) 52	50	94	777	41	333	141	974	598	251	1194	26	
Initial Q (Qb), veh 0	0	0	0	0	0	0	0	0	0	0	0	
Ped-Bike Adj(A_pbT) 1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00	
Parking Bus, Adj 1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approach	No			No			No			No		
Adj Sat Flow, veh/h/ln 1678	1678	1870	1870	1678	1678	1870	1870	1870	1678	1870	1678	
Adj Flow Rate, veh/h 52	50	94	777	41	333	141	974	598	251	1194	26	
Peak Hour Factor 1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Percent Heavy Veh, % 15	15	2	2	15	15	2	2	2	15	2	15	
Cap, veh/h 113	124	163	940	461	390	178	1390	1092	310	1390	556	
Arrive On Green 0.07	0.07	0.10	0.27	0.27	0.27	0.10	0.39	0.39	0.10	0.39	0.39	
Sat Flow, veh/h 1598		1585	3456	1678	1419	1781	3554	2790	3100	3554	1422	
Grp Volume(v), veh/h 52		94	777	41	333	141	974	598	251	1194	26	
Grp Sat Flow(s), veh/h/ln1598		1585	1728	1678	1419	1781	1777	1395	1550	1777	1422	
Q Serve(g_s), s 3.7	3.4	6.8	25.3	2.2	26.6	9.3	27.5	19.9	9.5	36.9	1.4	
Cycle Q Clear(g_c), s 3.7		6.8	25.3	2.2	26.6	9.3	27.5	19.9	9.5	36.9	1.4	
Prop In Lane 1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00	
Lane Grp Cap(c), veh/h 113		163	940	461	390	178	1390	1092	310	1390	556	
V/C Ratio(X) 0.46		0.58	0.83	0.09	0.85	0.79	0.70	0.55	0.81	0.86	0.05	
Avail Cap(c_a), veh/h 113		278	1183	700	592	178	1483	1164	310	1483	593	
HCM Platoon Ratio 1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Upstream Filter(I) 1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Uniform Delay (d), s/veh 53.4	53.0	51.2	41.0	32.3	41.2	52.7	30.6	28.3	52.8	33.4	22.6	
Incr Delay (d2), s/veh 2.9		3.2	4.0	0.1	7.6	20.9	1.4	0.5	14.6	5.1	0.0	
Initial Q Delay(d3),s/veh 0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),veh/lnl.6		2.8	10.9	0.9	9.8	5.2	11.9	6.4	4.3	16.6	0.4	
Unsig. Movement Delay, s/ve		2.0	. 5.0	3.0	3.0	J.L	. 1.0	J. 1	1.0	. 5.5	J. 1	
LnGrp Delay(d),s/veh 56.3		54.4	45.0	32.4	48.8	73.6	32.0	28.7	67.4	38.5	22.6	
LnGrp LOS E		D	D	C	D	7 O.O	C	C	E	D	C	
Approach Vol, veh/h	196			1151			1713			1471		
Approach Delay, s/veh	55.1			45.6			34.3			43.1		
Approach LOS	55.1 E			43.0 D			C			TJ. 1		
						_				J		
Timer - Assigned Phs 1	2	3	4	5	6	7	8					
Phs Duration (G+Y+Rc), \$6.0		36.6	16.3	16.0	50.9	16.0	36.9					
Change Period (Y+Rc), s 7.0		7.0	7.0	7.0	7.0	7.0	7.0					
Max Green Setting (Gmax9, 6		38.0	18.0	9.0	47.0	9.0	47.0					
Max Q Clear Time (g_c+lff),5		27.3	8.8	11.3	38.9	5.7	28.6					
Green Ext Time (p_c), s 0.0	9.2	2.3	0.3	0.0	5.0	0.0	1.2					
Intersection Summary												
HCM 6th Ctrl Delay		40.9										
HCM 6th LOS		D										

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	ሻ		7	ች	†	7	ሻ	∱ }		*	ħβ		
Traffic Volume (veh/h)	338	559	372	173	230	288	49	366	62	506	728	353	
Future Volume (veh/h)	338	559	372	173	230	288	49	366	62	506	728	353	
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approac		No			No			No			No		
Adj Sat Flow, veh/h/ln	1678	1678	1678	1678	1678	1678	1678	1678	1678	1678	1678	1678	
Adj Flow Rate, veh/h	338	559	372	173	230	288	49	366	62	506	728	353	
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Percent Heavy Veh, %	15	15	15	15	15	15	15	15	15	15	15	15	
Cap, veh/h	327	574	457	167	406	314	80	440	74	487	866	419	
Arrive On Green	0.20	0.34	0.32	0.10	0.24	0.22	0.05	0.16	0.15	0.30	0.42	0.40	
Sat Flow, veh/h	1598	1678	1422	1598	1678	1422	1598	2731	458	1598	2082	1008	
Grp Volume(v), veh/h	338	559	372	173	230	288	49	212	216	506	557	524	
Grp Sat Flow(s), veh/h/l		1678	1422	1598	1678	1422	1598	1594	1595	1598	1594	1496	
Q Serve(g_s), s	24.5	39.4	28.8	12.5	14.4	23.7	3.6	15.4	15.7	36.5	37.6	37.8	
Cycle Q Clear(g_c), s	24.5	39.4	28.8	12.5	14.4	23.7	3.6	15.4	15.7	36.5	37.6	37.8	
(0)		39.4			14.4			15.4		1.00	31.0	0.67	
Prop In Lane	1.00	E71	1.00	1.00	400	1.00	1.00	057	0.29		eeo		
Lane Grp Cap(c), veh/h		574	457	167	406	314	80	257	257	487	663	622	
V/C Ratio(X)	1.03	0.97	0.81	1.04	0.57	0.92	0.61	0.83	0.84	1.04	0.84	0.84	
Avail Cap(c_a), veh/h	327	574	457	167	406	314	87	259	260	487	663	622	
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Uniform Delay (d), s/ve		38.9	37.4	53.7	39.9	45.6	55.8	48.6	49.0	41.7	31.4	32.0	
Incr Delay (d2), s/veh	59.0	31.0	11.3	80.1	2.3	30.5	10.6	19.8	21.5	51.5	9.8	10.5	
Initial Q Delay(d3),s/vel		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),ve		20.3	11.4	8.6	6.0	11.0	1.7	7.5	7.8	21.1	16.0	15.3	
Unsig. Movement Delay													
LnGrp Delay(d),s/veh		69.8	48.7	133.7	42.2	76.1	66.4	68.4	70.4	93.1	41.3	42.5	
LnGrp LOS	F	<u>E</u>	D	F	D	<u>E</u>	E	<u>E</u>	E	F	D	D	
Approach Vol, veh/h		1269			691			477			1587		
Approach Delay, s/veh		73.5			79.2			69.1			58.2		
Approach LOS		Е			Е			Е			Е		
Timer - Assigned Phs	1	2	3	4	5	6	7	8					
Phs Duration (G+Y+Rc	1 16/1 0	44.3	39.0	22.5	26.0	32.3	8.5	53.0					
Change Period (Y+Rc)		5.8	4.0	* 4.7	4.0	5.8	4.0	* 4.7					
Max Green Setting (Gn		38.5	35.0	* 18	22.0	26.5	5.0	* 48					
Max Q Clear Time (g_c	, .	41.4	38.5	17.7	26.5	25.7	5.6	39.8					
Green Ext Time (p_c),	S U.U	0.0	0.0	0.1	0.0	0.3	0.0	5.3					
Intersection Summary													
HCM 6th Ctrl Delay			67.9										
HCM 6th LOS			Ε										
Notes													

^{*} HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

	۶	→	•	•	←	•	•	†	/	>	↓	✓	
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	ች	^	7	ች	^	7	*	î,		*	f)		
Traffic Volume (veh/h)	50	1058	2	9	509	57	24	0	13	67	0	100	
Future Volume (veh/h)	50	1058	2	9	509	57	24	0	13	67	0	100	
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approac		No			No			No			No		
Adj Sat Flow, veh/h/ln	1752	1752	1870	1870	1752	1752	1870	1870	1870	1752	1870	1752	
Adj Flow Rate, veh/h	54	1150	2	10	553	62	26	0	14	73	0	109	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	
Percent Heavy Veh, %	10	10	2	2	10	10	2	2	2	10	2	10	
Cap, veh/h	83	1813	827	111	1896	846	39	0	191	98	0	235	
Arrive On Green	0.05	0.54	0.52	0.06	0.57	0.57	0.02	0.00	0.12	0.06	0.00	0.16	
Sat Flow, veh/h	1668	3328	1585	1781	3328	1485	1781	0.00	1585	1668	0	1585	
Grp Volume(v), veh/h	54	1150	2	10	553	62	26	0	14	73	0	109	
Grp Sat Flow(s), veh/h/h		1664	1585	1781	1664	1485	1781	0	1585	1668	0	1585	
Q Serve(g_s), s	2.5	19.2	0.0	0.4	6.9	1.5	1.2	0.0	0.6	3.4	0.0	5.0	
Cycle Q Clear(g_c), s	2.5	19.2	0.0	0.4	6.9	1.5	1.2	0.0	0.6	3.4	0.0	5.0	
Prop In Lane	1.00	10.2	1.00	1.00	0.5	1.00	1.00	0.0	1.00	1.00	0.0	1.00	
Lane Grp Cap(c), veh/h		1813	827	111	1896	846	39	0	191	98	0	235	
V/C Ratio(X)	0.65	0.63	0.00	0.09	0.29	0.07	0.67	0.00	0.07	0.74	0.00	0.46	
Avail Cap(c_a), veh/h	115	1813	827	111	1896	846	89	0.00	476	98	0.00	477	
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00	
Uniform Delay (d), s/ve		12.7	9.1	35.4	8.9	7.7	38.8	0.0	31.2	37.1	0.00	30.8	
Incr Delay (d2), s/veh	8.2	1.7	0.0	0.3	0.4	0.2	17.7	0.0	0.2	26.2	0.0	1.4	
Initial Q Delay(d3),s/vel		0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.2	0.0	0.0	0.0	
%ile BackOfQ(50%),ve		6.8	0.0	0.0	2.3	0.5	0.0	0.0	0.0	2.1	0.0	2.0	
Unsig. Movement Delay			0.0	0.2	2.5	0.5	0.7	0.0	0.2	۷.۱	0.0	2.0	
LnGrp Delay(d),s/veh	45.5	14.4	9.2	35.7	9.3	7.9	56.5	0.0	31.4	63.2	0.0	32.2	
LnGrp LOS	45.5 D	14.4 B	9.2 A	33. <i>1</i>	9.3 A	7.9 A	50.5 E	Ο.0	31.4 C	03.2 E	Ο.0	32.2 C	
	U		A	U		A			U			U	
Approach Vol, veh/h		1206			625			40			182		
Approach LOS		15.8			9.6			47.7			44.7		
Approach LOS		В			Α			D			D		
Timer - Assigned Phs	1	2	3	4	5	6	7	8					
Phs Duration (G+Y+Rc), s9.5	48.3	8.0	14.2	7.5	50.3	5.8	16.5					
Change Period (Y+Rc),		6.5	4.0	4.6	4.0	6.5	4.0	* 4.6					
Max Green Setting (Gm		27.4	4.0	24.0	5.0	27.9	4.0	* 24					
Max Q Clear Time (g_c		21.2	5.4	2.6	4.5	8.9	3.2	7.0					
Green Ext Time (p_c), s	, .	3.9	0.0	0.0	0.0	3.9	0.0	0.5					
Intersection Summary													
HCM 6th Ctrl Delay			17.1										
HCM 6th LOS			17.1 B										
			D										
Notes													

^{*} HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

Intersection						
Int Delay, s/veh	0.2					
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	†	LDIX	VVDL	↑ ↑	NDL	NDIX 7
Traffic Vol, veh/h	T № 1134	4	0	TT 575	0	19
Future Vol, veh/h	1134	4	0	575	0	19
· · · · · · · · · · · · · · · · · · ·	0	0	0	0	0	0
Conflicting Peds, #/hr	Free	Free	Free	Free		
Sign Control RT Channelized					Stop	Stop
	-	None	-	None	-	None
Storage Length	<u> </u>	-	-	-	-	0
Veh in Median Storage		-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	1233	4	0	625	0	21
Major/Minor N	Major1	N	Major2	N	Minor1	
Conflicting Flow All	0	0	• • • • • • • • • • • • • • • • • • •		-	619
Stage 1	-	-	_		_	019
Stage 2	_	-		_	_	-
			-			
Critical Hdwy	-	-	-	-	-	6.94
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	-	-	-	-	3.32
Pot Cap-1 Maneuver	-	-	0	-	0	432
Stage 1	-	-	0	-	0	-
Stage 2	-	-	0	-	0	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	-	-	-	432
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Annroach	ED		WD		ND	
Approach	EB		WB		NB	
HCM Control Delay, s	0		0		13.8	
HCM LOS					В	
Minor Lane/Major Mvm	it 1	NBLn1	EBT	EBR	WBT	
Capacity (veh/h)		432	_	_	_	
HCM Lane V/C Ratio		0.048	_	_	_	
		13.8	_	_	_	
HCM Control Delay (s)						
HCM Lane LOS						
HCM Control Delay (s) HCM Lane LOS HCM 95th %tile Q(veh)		B 0.1	-	-	-	

	→	•	•	←	4	~
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	^	7	ሻ	^	W	
Traffic Volume (veh/h)	1149	4	0	563	12	0
Future Volume (veh/h)	1149	4	0	563	12	0
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00	1.00		1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No			No	No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	1249	4	0	612	4	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	2	2	2	2	2	2
Cap, veh/h	2193	978	6	2193	9999	9999
Arrive On Green	0.62	0.62	0.00	0.62	0.01	0.01
Sat Flow, veh/h	3647	1585	1781	18396747708	6 507489962 3	804672
Grp Volume(v), veh/h	1249	4	0	612	4	1
Grp Sat Flow(s),veh/h/ln	1777	1585	1781	1777	1781	1585
Q Serve(g_s), s	5.9	0.0	0.0	2.3	0.0	0.0
Cycle Q Clear(g_c), s	5.9	0.0	0.0	2.3	0.0	0.0
Prop In Lane		1.00	1.00		1.00	1.00
Lane Grp Cap(c), veh/h	2193	978	6	225334 3	234878607	
V/C Ratio(X)	0.57	0.00	0.00	0.28	0.00	0.00
Avail Cap(c_a), veh/h	3561	1588	251		53395203016	
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	0.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	3.2	2.1	0.0	2.5	0.0	0.0
Incr Delay (d2), s/veh	0.2	0.0	0.0	0.1	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.2	0.0	0.0	0.1	0.0	0.0
Unsig. Movement Delay, s/veh						
LnGrp Delay(d),s/veh	3.4	2.1	0.0	2.6	0.0	0.0
LnGrp LOS	A	A	A	Α	A	A
Approach Vol, veh/h	1253			612	5	
Approach Delay, s/veh	3.4			2.6	0.0	
Approach LOS	3. 4			2.0 A	Α	
Timer - Assigned Phs	1	2		4		6
Phs Duration (G+Y+Rc), s	0.0	24.1		4.4		24.1
Change Period (Y+Rc), s	4.0	6.5		4.0		6.5
Max Green Setting (Gmax), s	4.0	28.5		18.0		36.5
Max Q Clear Time (g_c+l1), s	0.0	7.9		2.0		4.3
Green Ext Time (p_c), s	0.0	9.7		0.0		4.7
Intersection Summary						
HCM 6th Ctrl Delay			3.2			
HCM 6th LOS			Α.Δ			
I IOIVI OUI LOS			А			

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	ች	î,		ች	ĵ.		ች	^	7	*	^	7	
Traffic Volume (veh/h)	286	389	344	138	168	107	93	61	86	378	345	413	
Future Volume (veh/h)	286	389	344	138	168	107	93	61	86	378	345	413	
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00	•	1.00	1.00	•	1.00	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approac		No			No			No			No		
Adj Sat Flow, veh/h/ln	1752	1870	1752	1752	1870	1752	1752	1752	1752	1752	1752	1752	
Adj Flow Rate, veh/h	286	389	344	138	168	107	93	61	86	378	345	413	
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Percent Heavy Veh, %	10	2	10	10	2	10	10	10	10	10	10	10	
Cap, veh/h	318	383	339	154	343	218	113	441	197	398	1009	450	
Arrive On Green	0.19	0.42	0.41	0.09	0.32	0.32	0.07	0.13	0.13	0.24	0.30	0.30	
Sat Flow, veh/h	1668	915	809	1668	1068	680	1668	3328	1485	1668	3328	1485	
Grp Volume(v), veh/h	286	0	733	138		275	93	61	86	378	345	413	
					0				1485		1664	1485	
Grp Sat Flow(s), veh/h/l		0	1725	1668	0.0	1748 17.3	1668 7.5	1664 2.2	7.3	1668		36.6	
Q Serve(g_s), s	22.8	0.0	57.0	11.1						30.4	11.0		
Cycle Q Clear(g_c), s	22.8	0.0	57.0	11.1	0.0	17.3	7.5	2.2	7.3	30.4	11.0	36.6	
Prop In Lane	1.00	^	0.47	1.00	^	0.39	1.00	4.4.4	1.00	1.00	4000	1.00	
Lane Grp Cap(c), veh/h		0	722	154	0	561	113	441	197	398	1009	450	
V/C Ratio(X)	0.90	0.00	1.01	0.89	0.00	0.49	0.82	0.14	0.44	0.95	0.34	0.92	
Avail Cap(c_a), veh/h	427	0	722	154	0	561	146	523	233	405	1039	464	
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Upstream Filter(I)	1.00	0.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Uniform Delay (d), s/ve		0.0	39.7	61.1	0.0	37.3	62.6	52.2	54.4	51.0	36.9	45.8	
Incr Delay (d2), s/veh	17.8	0.0	37.2	42.9	0.0	0.7	24.1	0.1	1.5	31.9	0.2	22.9	
Initial Q Delay(d3),s/vel		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),ve		0.0	31.2	6.6	0.0	7.6	3.9	0.9	2.8	16.2	4.5	16.3	
Unsig. Movement Delay	y, s/veh	1											
LnGrp Delay(d),s/veh	71.6	0.0	76.9	104.0	0.0	38.0	86.7	52.3	55.9	82.9	37.1	68.7	
LnGrp LOS	Е	Α	F	F	Α	D	F	D	E	F	D	E	
Approach Vol, veh/h		1019			413			240			1136		
Approach Delay, s/veh		75.4			60.0			66.9			63.8		
Approach LOS		Е			Е			Е			Е		
Timer - Assigned Phs	1	2	3	4	5	6	7	8					
Phs Duration (G+Y+Rc	36.5	22.0	16.6	61.0	13.2	45.2	29.9	47.7					
Change Period (Y+Rc)		5.8	4.0	* 4.7	4.0	5.8	4.5	* 4.7					
Max Green Setting (Gr		19.6	12.6	* 56	11.9	40.7	34.3	* 34					
Max Q Clear Time (g_c		9.3	13.1	59.0	9.5	38.6	24.8	19.3					
Green Ext Time (p_c),		0.4	0.0	0.0	0.0	0.9	0.6	1.4					
u = 7·	5 0.1	0.4	0.0	0.0	0.0	0.9	0.0	1.4					
Intersection Summary			67.7										
HCM 6th Ctrl Delay			67.7										
HCM 6th LOS			Е										
Notes													

^{*} HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

•	•	*	1	T	¥	*
Movement EBL	EBR	EBR	NBL	NBT	SBT	SBR
Lane Configurations			ች	ተተተ	ተተተ	7
Traffic Volume (veh/h) 278			307	1615	1725	94
Future Volume (veh/h) 278			307	1615	1725	94
Initial Q (Qb), veh			0	0	0	0
Ped-Bike Adj(A_pbT) 1.00			1.00	U	U	1.00
Parking Bus, Adj 1.00			1.00	1.00	1.00	1.00
		1.00	1.00			1.00
Work Zone On Approach No		1070	1070	No	No	1070
Adj Sat Flow, veh/h/ln 1870			1870	1870	1870	1870
Adj Flow Rate, veh/h 278			307	1615	1725	94
Peak Hour Factor 1.00			1.00	1.00	1.00	1.00
Percent Heavy Veh, % 2			2	2	2	2
Cap, veh/h 627	558	558	297	2854	1776	551
Arrive On Green 0.35	0.35	0.35	0.17	0.56	0.35	0.35
Sat Flow, veh/h 1781			1781	5274	5274	1585
Grp Volume(v), veh/h 278			307	1615	1725	94
Grp Sat Flow(s), veh/h/ln1781			1781	1702	1702	1585
			15.0	18.4	29.9	3.7
Q Serve(g_s), s 10.8						
Cycle Q Clear(g_c), s 10.8			15.0	18.4	29.9	3.7
Prop In Lane 1.00			1.00			1.00
Lane Grp Cap(c), veh/h 627			297	2854	1776	551
V/C Ratio(X) 0.44			1.03	0.57	0.97	0.17
Avail Cap(c_a), veh/h 627	558	558	297	2854	1776	551
HCM Platoon Ratio 1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I) 1.00			1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh 22.4			37.5	12.8	28.9	20.3
Incr Delay (d2), s/veh 0.5			61.3	0.3	15.1	0.1
Initial Q Delay(d3),s/veh 0.0			0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/lr4.5			11.4	6.5	14.1	1.4
, , ,		29.1	11.4	0.0	14.1	1.4
Unsig. Movement Delay, s/ve		70.0	00.0	40.4	44.0	00.5
LnGrp Delay(d),s/veh 22.9			98.8	13.1	44.0	20.5
LnGrp LOS C		F	F	В	D	С
Approach Vol, veh/h 848				1922	1819	
Approach Delay, s/veh 56.3				26.8	42.8	
Approach LOS E				С	D	
		_				_
Timer - Assigned Phs	2			4	5	6
Phs Duration (G+Y+Rc), s	54.3			35.7	19.0	35.3
Change Period (Y+Rc), s	5.8			* 4.7	4.0	5.8
Max Green Setting (Gmax), s	48.5	48.5		* 31	15.0	29.5
Max Q Clear Time (g_c+l1),				33.7	17.0	31.9
Green Ext Time (p_c), s	14.9			0.0	0.0	0.0
Intersection Summary						
HCM 6th Ctrl Delay			38.6			
HCM 6th LOS			D			
Notes						

^{*} HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

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Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	ሻ	7	^ ^	7	ሻ	ተተተ
Traffic Volume (veh/h)	206	100	1919	302	300	1908
Future Volume (veh/h)	206	100	1919	302	300	1908
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00	1.00		1.00	1.00	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approac			No			No
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	206	100	1919	302	300	1908
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00
Percent Heavy Veh, %	2	2	2	2	2	2
Cap, veh/h	280	250	2505	778	344	3761
Arrive On Green	0.16	0.16	0.49	0.49	0.19	0.74
Sat Flow, veh/h	1781	1585	5274	1585	1781	5274
Grp Volume(v), veh/h	206	100	1919	302	300	1908
Grp Volume(v), ven/n Grp Sat Flow(s),veh/h/li		1585	1702	1585	1781	1702
. ,	8.3	4.3	23.2	9.1	12.3	11.9
Q Serve(g_s), s			23.2	9.1	12.3	
Cycle Q Clear(g_c), s	8.3	4.3	25.2			11.9
Prop In Lane	1.00	1.00	0505	1.00	1.00	2704
Lane Grp Cap(c), veh/h		250	2505	778	344	3761
V/C Ratio(X)	0.73	0.40	0.77	0.39	0.87	0.51
Avail Cap(c_a), veh/h	748	666	2652	823	404	4079
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/vel		28.6	15.7	12.1	29.6	4.2
Incr Delay (d2), s/veh	3.7	1.0	1.3	0.3	16.6	0.1
Initial Q Delay(d3),s/veh		0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),vel		1.6	8.3	3.0	6.7	2.7
Unsig. Movement Delay						
LnGrp Delay(d),s/veh	34.0	29.6	17.0	12.4	46.2	4.3
LnGrp LOS	С	С	В	В	D	Α
Approach Vol, veh/h	306		2221			2208
Approach Delay, s/veh	32.6		16.4			10.0
Approach LOS	С		В			Α
Timer - Assigned Phs	1	2				6
Phs Duration (G+Y+Rc)), \$8.6	41.0				59.6
Change Period (Y+Rc),		5.8				5.8
Max Green Setting (Gm		37.4				58.5
Max Q Clear Time (g_c		25.2				13.9
Green Ext Time (p c), s		10.1				23.7
u = r	0.0	10.1				20.1
Intersection Summary						
HCM 6th Ctrl Delay			14.4			

В

HCM 6th LOS

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	¥	↑	7	ň	†	7	ķ	^	7	ķ	^	7	
Traffic Volume (veh/h)	244	322	285	172	3	344	177	1573	179	373	1887	47	
Future Volume (veh/h)	244	322	285	172	3	344	177	1573	179	373	1887	47	
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approac	ch	No			No			No			No		
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	
Adj Flow Rate, veh/h	244	322	285	172	3	344	177	1573	179	373	1887	47	
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2	
Cap, veh/h	239	481	408	194	434	368	191	1657	514	359	2137	663	
Arrive On Green	0.13	0.26	0.26	0.11	0.23	0.23	0.11	0.32	0.32	0.20	0.42	0.42	
Sat Flow, veh/h	1781	1870	1585	1781	1870	1585	1781	5106	1585	1781	5106	1585	
Grp Volume(v), veh/h	244	322	285	172	3	344	177	1573	179	373	1887	47	
Grp Sat Flow(s), veh/h/li		1870	1585	1781	1870	1585	1781	1702	1585	1781	1702	1585	
Q Serve(g_s), s	20.0	23.0	24.2	14.2	0.2	31.7	14.7	44.8	12.8	30.0	50.7	2.6	
Cycle Q Clear(g_c), s	20.0	23.0	24.2	14.2	0.2	31.7	14.7	44.8	12.8	30.0	50.7	2.6	
Prop In Lane	1.00	_5.0	1.00	1.00	7.2	1.00	1.00		1.00	1.00	J J.1	1.00	
Lane Grp Cap(c), veh/h		481	408	194	434	368	191	1657	514	359	2137	663	
V/C Ratio(X)	1.02	0.67	0.70	0.88	0.01	0.93	0.92	0.95	0.35	1.04	0.88	0.07	
Avail Cap(c_a), veh/h	239	481	408	215	449	380	191	1657	514	359	2137	663	
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Uniform Delay (d), s/vel		49.6	50.0	65.4	44.0	56.0	65.8	49.1	38.3	59.4	39.9	25.9	
Incr Delay (d2), s/veh	63.3	3.5	5.2	30.5	0.0	29.6	44.1	12.2	0.4	58.0	4.8	0.0	
Initial Q Delay(d3),s/veh		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),vel		11.3	10.3	8.1	0.1	15.7	9.0	20.9	5.1	19.3	22.0	1.0	
Unsig. Movement Delay			10.0	J. 1	J. 1	10.1	3.0	20.0	J. 1	10.0	22.0	1.0	
LnGrp Delay(d),s/veh		53.1	55.2	95.9	44.0	85.7	110.0	61.3	38.7	117.4	44.7	26.0	
LnGrp LOS	127.0 F	D	55.Z E	55.5 F	D	55.7 F	F	61.5 E	50.7 D	F	D	20.0 C	
Approach Vol, veh/h		851		1	519	<u> </u>	1	1929		1	2307		
		75.2			88.8			63.7			56.1		
Approach LOS					00.0								
Approach LOS		Е			г			Е			Е		
Timer - Assigned Phs	1	2	3	4	5	6	7	8					
Phs Duration (G+Y+Rc)	, .	52.3	20.3	42.3	20.0	66.3	24.0	38.6					
Change Period (Y+Rc),		5.8	4.0	* 4.7	4.0	5.8	4.0	* 4.7					
Max Green Setting (Gm	1a3x0),.0s	46.5	18.0	* 37	16.0	60.5	20.0	* 35					
Max Q Clear Time (g_c	+B12),0s	46.8	16.2	26.2	16.7	52.7	22.0	33.7					
Green Ext Time (p_c), s		0.0	0.1	2.3	0.0	6.5	0.0	0.2					
Intersection Summary													
HCM 6th Ctrl Delay			64.6										
HCM 6th LOS			E										

^{*} HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.



H. Cumulative Plus Project (Mitigated) Conditions Synchro Outputs

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	44	^	7	ሻ	^	7	ሻ	∱ ∱		ሻሻ	∱ ∱	
Traffic Volume (veh/h)	213	252	33	20	450	346	163	176	98	136	68	269
Future Volume (veh/h)	213	252	33	20	450	346	163	176	98	136	68	269
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1678	1678	1678	1678	1678	1678	1678	1678	1678	1678	1678	1678
Adj Flow Rate, veh/h	213	252	33	20	450	346	163	176	98	136	68	269
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Percent Heavy Veh, %	15	15	15	15	15	15	15	15	15	15	15	15
Cap, veh/h	300	444	198	372	957	427	197	558	296	211	354	316
Arrive On Green	0.10	0.14	0.14	0.23	0.30	0.30	0.12	0.28	0.28	0.07	0.22	0.22
Sat Flow, veh/h	3100	3188	1422	1598	3188	1422	1598	2012	1068	3100	1594	1422
Grp Volume(v), veh/h	213	252	33	20	450	346	163	138	136	136	68	269
Grp Sat Flow(s), veh/h/ln	1550	1594	1422	1598	1594	1422	1598	1594	1486	1550	1594	1422
Q Serve(g_s), s	4.8	5.3	1.1	0.7	8.3	16.2	7.2	4.9	5.2	3.1	2.5	13.0
Cycle Q Clear(q_c), s	4.8	5.3	1.1	0.7	8.3	16.2	7.2	4.9	5.2	3.1	2.5	13.0
Prop In Lane	1.00		1.00	1.00		1.00	1.00		0.72	1.00		1.00
Lane Grp Cap(c), veh/h	300	444	198	372	957	427	197	442	412	211	354	316
V/C Ratio(X)	0.71	0.57	0.17	0.05	0.47	0.81	0.83	0.31	0.33	0.64	0.19	0.85
Avail Cap(c_a), veh/h	496	1140	509	372	1140	509	233	442	412	453	417	372
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	31.5	28.9	15.8	21.4	20.5	23.3	30.8	20.5	20.7	32.6	22.7	26.8
Incr Delay (d2), s/veh	3.1	1.6	0.6	0.1	0.5	9.1	18.6	0.6	0.7	3.3	0.4	16.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.8	2.0	0.5	0.2	2.8	6.1	3.7	1.8	1.8	1.2	0.9	5.6
Unsig. Movement Delay, s/veh	1											
LnGrp Delay(d),s/veh	34.5	30.5	16.4	21.5	21.0	32.4	49.4	21.1	21.3	35.9	23.1	43.0
LnGrp LOS	С	С	В	С	С	С	D	С	С	D	С	D
Approach Vol, veh/h		498			816			437			473	
Approach Delay, s/veh		31.3			25.8			31.7			38.1	
Approach LOS		С			С			С			D	
Timer - Assigned Phs	1	2	3	4	5	6	7	8				
Phs Duration (G+Y+Rc), s	22.5	15.8	8.9	24.6	11.0	27.4	12.9	20.7				
Change Period (Y+Rc), s	5.8	* 5.8	4.0	* 4.7	4.0	5.8	4.0	* 4.7				
Max Green Setting (Gmax), s	11.5	* 26	10.5	* 19	11.5	25.7	10.5	* 19				
Max Q Clear Time (q_c+l1), s	2.7	7.3	5.1	7.2	6.8	18.2	9.2	15.0				
Green Ext Time (p_c), s	0.0	2.0	0.2	1.6	0.3	3.4	0.1	0.9				
Intersection Summary	0.0	2.0	0.2	1.0	0.0	J.T	0.1	0.7				
			20.0									
HCM 6th Ctrl Delay			30.8									
HCM 6th LOS			С									
Notes												

^{*} HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

Movement EBL EBT EBR WBL WBT WBR NBL NBT NBR SBL SBT SBR
Lane Configurations \\ \frac{1}{3} \tau \\ \frac{1}{3} \ta
Traffic Volume (veh/h) 84 159 93 80 994 22 38 32 10 87 1 129
Future Volume (veh/h) 84 159 93 80 994 22 38 32 10 87 1 129
Initial Q (Qb), veh 0 0 0 0 0 0 0 0 0 0
Ped-Bike Adj(A_pbT) 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0
Parking Bus, Adj 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0
Work Zone On Approach No No No No
Adj Sat Flow, veh/h/ln 1752 1870 1752 1752 1870 1752 1752 1752 1752 1752 1752 1752
Adj Flow Rate, veh/h 84 159 93 80 994 22 38 32 10 87 1 129
Peak Hour Factor 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0
Percent Heavy Veh, % 10 2 10 10 2 10 10 10 10 10 10 10
Cap, veh/h 105 1084 860 96 1064 844 55 348 155 109 454 203
Arrive On Green 0.06 0.58 0.58 0.06 0.57 0.57 0.03 0.10 0.10 0.07 0.14 0.14
Sat Flow, veh/h 1668 1870 1485 1668 1870 1485 1668 3328 1485 1668 3328 1485
Grp Volume(v), veh/h 84 159 93 80 994 22 38 32 10 87 1 129
Grp Sat Flow(s), veh/h/ln1668 1870 1485 1668 1870 1485 1668 1664 1485 1668 1664 1485
Q Serve(g_s), s 4.8 3.7 2.7 4.5 46.8 0.6 2.2 0.8 0.6 4.9 0.0 7.9
Cycle Q Clear(g_c), s 4.8 3.7 2.7 4.5 46.8 0.6 2.2 0.8 0.6 4.9 0.0 7.9
Prop In Lane 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0
Lane Grp Cap(c), veh/h 105 1084 860 96 1064 844 55 348 155 109 454 203
V/C Ratio(X) 0.80 0.15 0.11 0.83 0.93 0.03 0.69 0.09 0.06 0.80 0.00 0.64
Avail Cap(c_a), veh/h 110 1184 940 96 1159 920 98 654 292 115 689 307
HCM Platoon Ratio 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0
Upstream Filter(I) 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0
Uniform Delay (d), s/veh44.2 9.2 9.0 44.6 19.0 9.0 45.8 38.7 38.6 44.1 35.7 39.1
Incr Delay (d2), s/veh 31.8 0.1 0.1 44.0 13.0 0.0 13.9 0.1 0.2 30.6 0.0 3.3
Initial Q Delay(d3),s/veh 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.
%ile BackOfQ(50%), veh/lû2.9 1.5 0.8 3.0 22.0 0.2 1.1 0.3 0.2 2.9 0.0 3.0
Unsig. Movement Delay, s/veh
LnGrp Delay(d),s/veh 76.0 9.3 9.1 88.6 32.0 9.0 59.7 38.9 38.8 74.7 35.7 42.4
LnGrp LOS E A A F C A E D D E D D
Approach Vol, veh/h 336 1096 80 217
Approach Delay, s/veh 25.9 35.7 48.7 55.3
Approach LOS C D D E
Timer - Assigned Phs 1 2 3 4 5 6 7 8
Phs Duration (G+Y+Rc), 10.2 15.8 9.5 60.2 7.2 18.9 10.5 59.1
Change Period (Y+Rc), s 4.0 5.8 4.0 * 4.7 4.0 5.8 4.5 * 4.7
Max Green Setting (Gmax), 6s 18.8 5.5 * 61 5.6 19.8 6.3 * 59
Max Q Clear Time (g_c+16),9s 2.8 6.5 5.7 4.2 9.9 6.8 48.8
Green Ext Time (p_c), s 0.0 0.1 0.0 1.3 0.0 0.2 0.0 5.6
Intersection Summary
HCM 6th Ctrl Delay 36.8
HCM 6th LOS D
Notes

^{*} HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

Movement
Lane Configurations
Traffic Volume (ve/hrh) 7 3 17 204 1 433 127 1713 20 251 1020 48 Future Volume (ve/hrh) 7 3 17 204 1 433 127 1713 20 251 1020 48 Initial Q (Qb), veh 0 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 <t< td=""></t<>
Future Volume (veh/h) 7 3 17 204 1 433 127 1713 20 251 1020 48 Initial Q (Ob), veh 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Initial Q (Qb), veh
Ped-Bike Adj(A_pbT) 1.00
Parking Bus, Adj
Work Zone On Approach No 1870 180 1.00
Adj Sat Flow, veh/h/ln 1870 187
Adj Flow Rate, veh/h 7 3 17 204 1 433 127 1713 20 251 1020 48 Peak Hour Factor 1.00
Peak Hour Factor 1.00
Percent Heavy Veh, % 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
Cap, veh/h 16 22 122 245 406 344 161 2146 666 334 2295 712 Arrive On Green 0.01 0.09 0.09 0.14 0.22 0.22 0.09 0.42 0.10 0.45 0.45 Sat Flow, veh/h 1781 243 1379 1781 1870 1585 1781 5106 1585 3456 5106 1585 Grp Volume(v), veh/h 7 0 20 204 1 433 127 1713 20 251 1020 48 Grp Sat Flow(s), veh/h/In1781 0 1622 1781 1870 1585 1781 1702 1585 1728 1702 1585 Q Serve(g_s), s 0.3 0.0 0.9 8.8 0.0 12.1 5.5 23.1 0.3 5.6 10.9 1.4 Cycle Q Clear(g_c), s 0.3 0.0 0.9 8.8 0.0 12.1 5.5 23.1
Arrive On Green 0.01 0.09 0.09 0.14 0.22 0.22 0.09 0.42 0.42 0.10 0.45 0.45 Sat Flow, veh/h 1781 243 1379 1781 1870 1585 1781 5106 1585 3456 5106 1585 Grp Volume(v), veh/h 7 0 20 204 1 433 127 1713 20 251 1020 48 Grp Sat Flow(s),veh/h/h/ln1781 0 1622 1781 1870 1585 1781 1702 1585 1728 1702 1585 Q Serve(g_s), s 0.3 0.0 0.9 8.8 0.0 12.1 5.5 23.1 0.3 5.6 10.9 1.4 Cycle Q Clear(g_c), s 0.3 0.0 0.9 8.8 0.0 12.1 5.5 23.1 0.3 5.6 10.9 1.4 Prop In Lane 1.00 0.85 1.00 1.00 1.00 1.00 1.
Sat Flow, veh/h 1781 243 1379 1781 1870 1585 1781 5106 1585 3456 5106 1585 Grp Volume(v), veh/h 7 0 20 204 1 433 127 1713 20 251 1020 48 Grp Sat Flow(s),veh/h/In1781 0 1622 1781 1870 1585 1781 1702 1585 1728 1702 1585 Q Serve(g_s), s 0.3 0.0 0.9 8.8 0.0 12.1 5.5 23.1 0.3 5.6 10.9 1.4 Cycle Q Clear(g_c), s 0.3 0.0 0.9 8.8 0.0 12.1 5.5 23.1 0.3 5.6 10.9 1.4 Prop In Lane 1.00 0.85 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
Grp Volume(v), veh/h 7 0 20 204 1 433 127 1713 20 251 1020 48 Grp Sat Flow(s),veh/h/ln1781 0 1622 1781 1870 1585 1781 1702 1585 1728 1702 1585 Q Serve(g_s), s 0.3 0.0 0.9 8.8 0.0 12.1 5.5 23.1 0.3 5.6 10.9 1.4 Cycle Q Clear(g_c), s 0.3 0.0 0.9 8.8 0.0 12.1 5.5 23.1 0.3 5.6 10.9 1.4 Prop In Lane 1.00 0.85 1.00 1.00 1.00 1.00 1.00 1.00 1.00 Lane Grp Cap(c), veh/h 16 0 144 245 406 344 161 2146 666 334 2295 712 V/C Ratio(X) 0.44 0.00 0.14 0.83 0.00 1.26 0.79 0.80 0.03 0.75 0.44 0.07 Avail Cap(c_a), veh/h 124 0 718 270 982 832 255 2325 722 371 2295 712 HCM Platoon Ratio 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0
Grp Sat Flow(s),veh/h/ln1781
Q Serve(g_s), s
Cycle Q Clear(g_c), s 0.3 0.0 0.9 8.8 0.0 12.1 5.5 23.1 0.3 5.6 10.9 1.4 Prop In Lane 1.00 0.85 1.00 1.00 1.00 1.00 1.00 1.00 1.00 Lane Grp Cap(c), veh/h 16 0 144 245 406 344 161 2146 666 334 2295 712 V/C Ratio(X) 0.44 0.00 0.14 0.83 0.00 1.26 0.79 0.80 0.03 0.75 0.44 0.07 Avail Cap(c_a), veh/h 124 0 718 270 982 832 255 2325 722 371 2295 712 HCM Platoon Ratio 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0
Prop In Lane
Lane Grp Cap(c), veh/h 16 0 144 245 406 344 161 2146 666 334 2295 712 V/C Ratio(X) 0.44 0.00 0.14 0.83 0.00 1.26 0.79 0.80 0.03 0.75 0.44 0.07 Avail Cap(c_a), veh/h 124 0 718 270 982 832 255 2325 722 371 2295 712 HCM Platoon Ratio 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0
V/C Ratio(X) 0.44 0.00 0.14 0.83 0.00 1.26 0.79 0.80 0.03 0.75 0.44 0.07 Avail Cap(c_a), veh/h 124 0 718 270 982 832 255 2325 722 371 2295 712 HCM Platoon Ratio 1.00
Avail Cap(c_a), veh/h 124 0 718 270 982 832 255 2325 722 371 2295 712 HCM Platoon Ratio 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0
HCM Platoon Ratio 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0
Upstream Filter(I) 1.00 0.00 1.00 1.00 1.00 1.00 1.00 1.0
Uniform Delay (d), s/veh39.0 0.0 33.3 33.2 24.2 15.5 35.2 20.0 4.0 34.8 15.0 12.4 Incr Delay (d2), s/veh 17.5 0.0 0.4 18.0 0.0 122.0 8.3 1.9 0.0 7.5 0.1 0.0 Initial Q Delay(d3),s/veh 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.
Incr Delay (d2), s/veh 17.5 0.0 0.4 18.0 0.0 122.0 8.3 1.9 0.0 7.5 0.1 0.0 Initial Q Delay(d3),s/veh 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.
Initial Q Delay(d3),s/veh 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.
%ile BackOfQ(50%),veh/l 0 .2 0.0 0.4 4.9 0.0 15.7 2.7 8.8 0.2 2.6 3.9 0.5 Unsig. Movement Delay, s/veh LnGrp Delay(d),s/veh 56.5 0.0 33.7 51.2 24.2 137.4 43.5 21.9 4.1 42.3 15.1 12.4
Unsig. Movement Delay, s/veh LnGrp Delay(d),s/veh 56.5 0.0 33.7 51.2 24.2 137.4 43.5 21.9 4.1 42.3 15.1 12.4
LnGrp Delay(d),s/veh 56.5 0.0 33.7 51.2 24.2 137.4 43.5 21.9 4.1 42.3 15.1 12.4
LnGrp LOS E A C D C F D C A D B B
Approach Vol, veh/h 27 638 1860 1319
Approach Delay, s/veh 39.6 109.7 23.2 20.2
Approach LOS D F C C
Timer - Assigned Phs 1 2 3 4 5 6 7 8
Phs Duration (G+Y+Rc), 163.4 39.0 14.9 11.7 11.1 41.3 4.7 21.9
Change Period (Y+Rc), s 5.8 * 5.8 4.0 * 4.7 4.0 5.8 4.0 * 4.7
Max Green Setting (Gmax), 5: * 36 12.0 * 35 11.3 33.2 5.5 * 42
Max Q Clear Time (g_c+17),6s 25.1 10.8 2.9 7.5 12.9 2.3 14.1
Green Ext Time (p_c), s 0.1 8.1 0.1 0.1 7.6 0.0 1.6
Intersection Summary
HCM 6th Ctrl Delay 36.6
HCM 6th LOS D
Notes

^{*} HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

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Movement EB	L	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	ኘ	†	7	ሻሻ		7	ች	^	7	77	ተተተ	7
	4	12	15	25	10	214	113	452	98	321	1127	91
Future Volume (veh/h) 2		12	15	25	10	214	113	452	98	321	1127	91
, , ,	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT) 1.0	0		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj 1.0		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln 167	8	1678	1678	1678	1678	1678	1678	1678	1678	1678	1678	1678
Adj Flow Rate, veh/h 2		12	15	25	10	214	113	452	98	321	1127	91
Peak Hour Factor 1.0		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Percent Heavy Veh, % 1	5	15	15	15	15	15	15	15	15	15	15	15
	4	316	268	89	317	269	141	1054	470	385	1680	522
Arrive On Green 0.0		0.19	0.19	0.03	0.19	0.19	0.09	0.33	0.33	0.12	0.37	0.37
Sat Flow, veh/h 159		1678	1422	3100	1678	1422	1598	3188	1422	3100	4580	1422
Grp Volume(v), veh/h 2		12	15	25	10	214	113	452	98	321	1127	91
Grp Sat Flow(s), veh/h/ln159		1678	1422	1550	1678	1422	1598	1594	1422	1550	1527	1422
Q Serve(g_s), s 0.		0.3	0.5	0.4	0.3	8.1	3.9	6.2	2.8	5.7	11.6	2.4
Cycle Q Clear(g_c), s 0.		0.3	0.5	0.4	0.3	8.1	3.9	6.2	2.8	5.7	11.6	2.4
Prop In Lane 1.0		0.0	1.00	1.00	0.0	1.00	1.00	0.2	1.00	1.00		1.00
Lane Grp Cap(c), veh/h 4		316	268	89	317	269	141	1054	470	385	1680	522
V/C Ratio(X) 0.5		0.04	0.06	0.28	0.03	0.80	0.80	0.43	0.21	0.83	0.67	0.17
Avail Cap(c_a), veh/h 17		893	757	275	863	731	255	1668	744	385	2234	694
HCM Platoon Ratio 1.0		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I) 1.0		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh27.		18.7	18.8	26.8	18.6	21.8	25.2	14.7	13.6	24.1	15.0	12.1
Incr Delay (d2), s/veh 9.		0.0	0.1	1.7	0.0	5.3	10.1	0.3	0.2	14.5	0.5	0.2
Initial Q Delay(d3),s/veh 0.		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%), veh/ln0.		0.1	0.2	0.2	0.1	2.9	1.8	2.0	0.8	2.7	3.6	0.7
Unsig. Movement Delay, s/\			J.E	J.E	J. 1	,			3.0		3.0	3.7
LnGrp Delay(d),s/veh 36.		18.8	18.9	28.5	18.7	27.1	35.4	15.0	13.8	38.7	15.5	12.2
• • •	D	В	В	C	В	С	D	В	В	D	В	В
Approach Vol, veh/h		51			249			663			1539	
Approach Delay, s/veh		27.3			26.9			18.3			20.1	
Approach LOS		C C			20.7			В			20.1 C	
	1		2		-	,	-					
Timer - Assigned Phs	<u> </u>	2	3	4	5	6	- /	8				
Phs Duration (G+Y+Rc), s9.		26.5	5.6	15.3	11.0	24.4	5.6	15.4				
Change Period (Y+Rc), s 4.		5.8	4.0	* 4.7	4.0	5.8	4.0	* 4.7				
Max Green Setting (Gmax),		27.5	5.0	* 30	7.0	29.5	6.0	* 29				
Max Q Clear Time (g_c+l15),		13.6	2.4	2.5	7.7	8.2	2.8	10.1				
Green Ext Time (p_c), s 0.	1	7.0	0.0	0.1	0.0	3.4	0.0	0.7				
Intersection Summary												
HCM 6th Ctrl Delay			20.5									
HCM 6th LOS			С									
Notes												

^{*} HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	ሻ	ħβ		1/1	†	7	ሻ	1111	7	ሻ	1111	7	
Traffic Volume (veh/h)	344	270	180	200	277	320	284	709	210	217	1139	405	
Future Volume (veh/h)	344	270	180	200	277	320	284	709	210	217	1139	405	
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approac	ch	No			No			No			No		
Adj Sat Flow, veh/h/ln	1752	1752	1752	1752	1752	1752	1752	1752	1752	1752	1752	1752	
Adj Flow Rate, veh/h	344	270	180	200	277	320	284	709	210	217	1139	405	
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10	
Cap, veh/h	350	721	465	258	416	352	286	1477	364	242	1317	324	
Arrive On Green	0.21	0.37	0.37	0.08	0.24	0.24	0.17	0.25	0.25	0.14	0.22	0.22	
Sat Flow, veh/h	1668	1939	1252	3237	1752	1485	1668	6026	1485	1668	6026	1485	
Grp Volume(v), veh/h	344	230	220	200	277	320	284	709	210	217	1139	405	
Grp Sat Flow(s), veh/h/l		1664	1527	1618	1752	1485	1668	1507	1485	1668	1507	1485	
Q Serve(g_s), s	23.9	11.8	12.3	7.1	16.7	24.5	19.8	11.7	14.5	14.9	21.3	25.5	
Cycle Q Clear(g_c), s	23.9	11.8	12.3	7.1	16.7	24.5	19.8	11.7	14.5	14.9	21.3	25.5	
Prop In Lane	1.00	11.0	0.82	1.00	10.7	1.00	1.00	11.7	1.00	1.00	21.0	1.00	
Lane Grp Cap(c), veh/h		619	568	258	416	352	286	1477	364	242	1317	324	
V/C Ratio(X)	0.98	0.37	0.39	0.78	0.67	0.91	0.99	0.48	0.58	0.90	0.86	1.25	
Avail Cap(c_a), veh/h	350	619	568	369	465	394	286	1477	364	242	1317	324	
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
				52.7	40.3	43.3	48.3	37.7	38.7	49.1	43.9	45.6	
Uniform Delay (d), s/ve		26.7	26.9	6.4	3.1		51.3		2.2	32.4		134.9	
Incr Delay (d2), s/veh	43.1					22.9		0.2			6.3		
Initial Q Delay(d3),s/vel		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),ve		4.7	4.6	3.1	7.5	11.1	12.3	4.4	5.5	8.4	8.5	21.5	
Unsig. Movement Delay	•		77.7	FO 1	12.4	// 2	00.5	27.0	11.0	01.4	F0.2	100 5	
LnGrp Delay(d),s/veh	89.0	27.1	27.3	59.1	43.4	66.2	99.5	37.9	41.0	81.4	50.2	180.5	
LnGrp LOS	<u> </u>	<u>C</u>	С	<u>E</u>	D	<u>E</u>	F	D	D	F	D	F	
Approach Vol, veh/h		794			797			1203			1761		
Approach Delay, s/veh		54.0			56.5			53.0			84.0		
Approach LOS		D			E			D			F		
Timer - Assigned Phs	1	2	3	4	5	6	7	8					
Phs Duration (G+Y+Rc)),20.9	34.4	13.3	48.1	24.0	31.3	29.0	32.4					
Change Period (Y+Rc),		5.8	4.0	* 4.7	4.0	5.8	4.5	* 4.7					
Max Green Setting (Gm		28.6	13.3	* 43	20.0	25.5	24.5	* 31					
Max Q Clear Time (q_c		16.5	9.1	14.3	21.8	27.5	25.9	26.5					
Green Ext Time (p_c),		4.5	0.2	3.0	0.0	0.0	0.0	1.2					
,	0.0	1.0	5.2	3.0	5.0	3.0	3.0	1.2					
Intersection Summary			/F.0										
HCM 6th Ctrl Delay			65.8										
HCM 6th LOS			Е										
Notes													

^{*} HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

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Movement E	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		ተተተ	7	*	ተተተ	7	*	^	7	*	^	7
Traffic Volume (veh/h)	10	600	70	180	1350	10	70	60	130	10	130	10
Future Volume (veh/h)	10	600	70	180	1350	10	70	60	130	10	130	10
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
, ,	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No	1100	1100	No		1100	No	1100		No	
	752	1870	1752	1870	1870	1870	1752	1752	1870	1870	1752	1752
Adj Flow Rate, veh/h	10	600	70	180	1350	10	70	60	130	10	130	10
	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Percent Heavy Veh, %	10	2	10	2	2	2	10	10	2	2	10	10
Cap, veh/h	21	1460	425	229	2005	622	210	797	379	23	420	187
•	0.01	0.29	0.29	0.13	0.39	0.39	0.13	0.24	0.24	0.01	0.13	0.13
	668	5106	1485	1781	5106	1585	1668	3328	1585	1781	3328	1485
Grp Volume(v), veh/h	10	600	70	180	1350	10	70	60	130	10	130	10
Grp Sat Flow(s), veh/h/ln1		1702	1485	1781	1702	1585	1668	1664	1585	1781	1664	1485
•	0.3	5.3	2.0	5.4	12.1	0.2	2.1	0.8	3.8	0.3	2.0	0.3
Cycle Q Clear(g_c), s	0.3	5.3	2.0	5.4	12.1	0.2	2.1	0.8	3.8	0.3	2.0	0.3
	1.00	0.0	1.00	1.00	12.1	1.00	1.00	0.0	1.00	1.00	2.0	1.00
Lane Grp Cap(c), veh/h	21	1460	425	229	2005	622	210	797	379	23	420	187
	0.47	0.41	0.16	0.79	0.67	0.02	0.33	0.08	0.34	0.44	0.31	0.05
` '	150	1950	567	369	2502	777	863	3496	1665	176	2105	939
1 \ - /-	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh2		16.0	14.9	23.4	13.9	10.3	22.1	16.4	17.5	27.2	22.1	21.3
	14.9	0.2	0.2	5.9	0.5	0.0	0.9	0.0	0.5	12.5	0.4	0.1
Initial Q Delay(d3),s/veh		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/l		1.9	0.6	2.5	4.1	0.1	0.8	0.3	1.3	0.2	0.7	0.1
Unsig. Movement Delay,												
9	42.1	16.2	15.0	29.3	14.4	10.3	23.0	16.4	18.0	39.7	22.5	21.5
LnGrp LOS	D	В	В	С	В	В	С	В	В	D	С	С
Approach Vol, veh/h	_	680			1540			260			150	
Approach Delay, s/veh		16.5			16.1			19.0			23.6	
Approach LOS		В			В			В			С	
Timer - Assigned Phs	1	2	3	4	5	6	7	8				
Phs Duration (G+Y+Rc),	s4.7	18.0	11.1	21.7	11.0	11.7	5.2	27.6				
Change Period (Y+Rc), s		* 4.7	4.0	5.8	4.0	* 4.7	4.5	5.8				
Max Green Setting (Gma		* 58	11.5	21.2	28.7	* 35	5.0	27.2				
Max Q Clear Time (g_c+l	, .	5.8	7.4	7.3	4.1	4.0	2.3	14.1				
Green Ext Time (p_c), s		0.8	0.2	3.7	0.2	0.8	0.0	7.7				
Intersection Summary	0.0	3.0	5.2	3.7	J.2	5.0	3.0	,.,				
HCM 6th Ctrl Delay			16.9									
HCM 6th LOS			10.9 B									
			D									
Notes												

^{*} HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	ň	^	7	1/1	∱ }		1/4	†	7	ሻ	†	7	
Traffic Volume (veh/h)	37	200	183	528	753	106	307	157	418	20	250	13	
Future Volume (veh/h)	37	200	183	528	753	106	307	157	418	20	250	13	
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approac	:h	No			No			No			No		
Adj Sat Flow, veh/h/ln	1752	1752	1752	1752	1752	1752	1752	1752	1752	1752	1752	1752	
Adj Flow Rate, veh/h	37	200	183	528	753	106	307	157	418	20	250	13	
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10	
Cap, veh/h	62	606	270	631	996	140	397	570	483	39	395	335	
Arrive On Green	0.04	0.18	0.18	0.19	0.34	0.34	0.12	0.33	0.33	0.02	0.23	0.23	
Sat Flow, veh/h	1668	3328	1485	3237	2930	412	3237	1752	1485	1668	1752	1485	
Grp Volume(v), veh/h	37	200	183	528	428	431	307	157	418	20	250	13	
Grp Sat Flow(s), veh/h/h		1664	1485	1618	1664	1678	1618	1752	1485	1668	1752	1485	
Q Serve(g_s), s	1.5	3.5	7.7	10.6	15.4	15.4	6.2	4.5	17.8	0.8	8.7	0.5	
Cycle Q Clear(g_c), s	1.5	3.5	7.7	10.6	15.4	15.4	6.2	4.5	17.8	0.8	8.7	0.5	
Prop In Lane	1.00	3.3	1.00	1.00	13.4	0.25	1.00	4.5	1.00	1.00	0.7	1.00	
Lane Grp Cap(c), veh/h		606	270	631	566	570	397	570	483	39	395	335	
V/C Ratio(X)	0.60	0.33	0.68	0.84	0.76	0.76	0.77	0.28	0.87	0.52	0.63	0.04	
Avail Cap(c_a), veh/h	168	1384	617	721	894	902	432	850	721	144	767	650	
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Upstream Filter(I)	1.00												
Uniform Delay (d), s/vel		24.0	25.7	26.1	19.7	19.8	28.6	16.8	21.3	32.5	23.6	20.4	
Incr Delay (d2), s/veh	8.9	0.3	2.9	7.7	2.1	2.1	7.8	0.3	7.3	10.3	1.7	0.0	
Initial Q Delay(d3),s/vel		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),vel		1.3	2.8	4.5	5.8	5.8	2.7	1.7	6.6	0.4	3.6	0.2	
Unsig. Movement Delay			20.7	22.0	24.0	24.0	2/ 5	171	20.7	40.0	25.2	20.4	
LnGrp Delay(d),s/veh	40.9	24.3	28.6	33.8	21.8	21.8	36.5	17.1	28.7	42.8	25.2	20.4	
LnGrp LOS	D	С	С	<u>C</u>	<u>C</u>	С	D	В	С	D	С	С	
Approach Vol, veh/h		420			1387			882			283		
Approach Delay, s/veh		27.6			26.4			29.3			26.3		
Approach LOS		С			С			С			С		
Timer - Assigned Phs	1	2	3	4	5	6	7	8					
Phs Duration (G+Y+Rc)), \$5.6	27.7	17.1	17.0	12.3	21.0	6.5	27.6					
Change Period (Y+Rc),		5.8	4.0	* 4.7	4.0	5.8	4.0	* 4.7					
Max Green Setting (Gm		32.7	15.0	* 28	9.0	29.5	6.8	* 36					
Max Q Clear Time (g_c		19.8	12.6	9.7	8.2	10.7	3.5	17.4					
Green Ext Time (p_c),		2.1	0.6	1.8	0.1	1.4	0.0	5.5					
,	0.0	۷. ۱	0.0	1.0	0.1	1.7	0.0	0.0					
Intersection Summary			27.4										
HCM 6th Ctrl Delay			27.4										
HCM 6th LOS			С										
Notes													

^{*} HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	*	^	7	ች	^	7	ሻሻ	ተተተ	7	ሻሻ	^ ^	7	
Traffic Volume (veh/h)	120	13	147	437	142	357	471	1184	130	78	875	284	
Future Volume (veh/h)	120	13	147	437	142	357	471	1184	130	78	875	284	
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)	1.00	Ū	1.00	1.00		1.00	1.00	J	1.00	1.00	J	1.00	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approa		No	1.00	1.00	No	1.00	1.00	No	1.00	1.00	No	1.00	
Adj Sat Flow, veh/h/ln	1752	1870	1752	1870	1870	1870	1752	1752	1870	1870	1752	1752	
Adj Flow Rate, veh/h	120	13	147	437	142	357	471	1184	130	78	875	284	
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Percent Heavy Veh, %		2	1.00	2	2	2	1.00	1.00	2	2	1.00	1.00	
	156	439	183	476	1029	459	542	1735	575	161	1157	359	
Cap, veh/h Arrive On Green	0.09	0.12	0.12	0.27	0.29	0.29	0.17	0.36	0.36	0.05	0.24	0.24	
Sat Flow, veh/h	1668	3554	1485	1781	3554	1585	3237	4782	1585	3456	4782	1485	
Grp Volume(v), veh/h	120	13	147	437	142	357	471	1184	130	78	875	284	
Grp Sat Flow(s), veh/h/		1777	1485	1781	1777	1585	1618	1594	1585	1728	1594	1485	
Q Serve(g_s), s	6.5	0.3	8.9	22.1	2.7	19.1	13.1	19.4	5.3	2.0	15.7	16.6	
Cycle Q Clear(g_c), s	6.5	0.3	8.9	22.1	2.7	19.1	13.1	19.4	5.3	2.0	15.7	16.6	
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00	
Lane Grp Cap(c), veh/l		439	183	476	1029	459	542	1735	575	161	1157	359	
V/C Ratio(X)	0.77	0.03	0.80	0.92	0.14	0.78	0.87	0.68	0.23	0.48	0.76	0.79	
Avail Cap(c_a), veh/h	308	1343	561	558	1772	791	594	1936	642	187	1316	409	
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Uniform Delay (d), s/ve	h41.0	35.7	39.5	33.0	24.4	30.2	37.6	25.0	20.5	43.1	32.6	32.9	
Incr Delay (d2), s/veh	7.7	0.0	7.9	18.6	0.1	2.9	12.3	0.9	0.2	2.2	2.2	9.0	
Initial Q Delay(d3),s/ve	h 0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%), ve	eh/ln3.0	0.1	3.6	11.7	1.1	7.5	6.0	7.2	1.9	0.9	6.2	6.7	
Unsig. Movement Dela		1											
LnGrp Delay(d),s/veh	48.7	35.7	47.4	51.6	24.4	33.1	49.9	25.9	20.7	45.3	34.8	41.9	
LnGrp LOS	D	D	D	D	С	С	D	С	С	D	С	D	
Approach Vol, veh/h		280			936			1785			1237		
Approach Delay, s/veh		47.4			40.4			31.8			37.1		
Approach LOS		D			D			C C			D		
											U		
Timer - Assigned Phs	1	2	3	4	5	6	7	8					
Phs Duration (G+Y+Ro	c), s8.3	39.4	28.8	16.1	19.5	28.2	13.4	31.5					
Change Period (Y+Rc)	, s 4.0	5.8	4.0	* 4.7	4.0	5.8	* 4.7	* 4.7					
Max Green Setting (Gr		37.5	29.0	* 35	17.0	25.5	* 17	* 46					
Max Q Clear Time (g_c		21.4	24.1	10.9	15.1	18.6	8.5	21.1					
Green Ext Time (p_c),	, .	8.2	0.7	0.5	0.4	3.8	0.2	2.2					
Intersection Summary													
HCM 6th Ctrl Delay			36.3										
HCM 6th LOS			D										
Notes													

^{*} HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

CUPP (MIT)
Timing Plan: PM Peak

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	1,4	↑	7	ሻ	•	7	ሻ	ተኈ		ሻሻ	∱ ∱	
Traffic Volume (veh/h)	338	559	372	173	230	288	49	366	62	506	728	353
Future Volume (veh/h)	338	559	372	173	230	288	49	366	62	506	728	353
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1678	1678	1678	1678	1678	1678	1678	1678	1678	1678	1678	1678
Adj Flow Rate, veh/h	338	559	372	173	230	288	49	366	62	506	728	353
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Percent Heavy Veh, %	15	15	15	15	15	15	15	15	15	15	15	15
Cap, veh/h	403	619	484	172	581	452	90	569	95	610	725	351
Arrive On Green	0.13	0.37	0.34	0.11	0.35	0.32	0.06	0.21	0.19	0.20	0.35	0.33
Sat Flow, veh/h	3100	1678	1422	1598	1678	1422	1598	2731	458	3100	2082	1008
Grp Volume(v), veh/h	338	559	372	173	230	288	49	212	216	506	557	524
Grp Sat Flow(s),veh/h/ln	1550	1678	1422	1598	1678	1422	1598	1594	1595	1550	1594	1496
Q Serve(g_s), s	9.4	27.9	20.7	9.5	9.2	15.3	2.6	10.8	11.0	13.9	30.8	30.8
Cycle Q Clear(g_c), s	9.4	27.9	20.7	9.5	9.2	15.3	2.6	10.8	11.0	13.9	30.8	30.8
Prop In Lane	1.00		1.00	1.00	V. <u>_</u>	1.00	1.00		0.29	1.00	00.0	0.67
Lane Grp Cap(c), veh/h	403	619	484	172	581	452	90	332	332	610	555	521
V/C Ratio(X)	0.84	0.90	0.77	1.01	0.40	0.64	0.54	0.64	0.65	0.83	1.00	1.00
Avail Cap(c_a), veh/h	403	621	486	172	583	454	117	357	357	614	555	521
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	37.5	26.4	26.0	39.4	21.9	25.8	40.6	32.0	32.2	34.1	28.8	29.3
Incr Delay (d2), s/veh	14.4	16.9	7.8	70.6	0.6	3.4	5.0	4.1	4.4	9.3	39.0	40.6
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	4.2	12.9	7.7	6.9	3.4	5.4	1.1	4.4	4.6	5.9	17.2	16.5
Unsig. Movement Delay, s/veh		12.5	1.1	0.5	0.4	J. T	1.1	7.7	7.0	0.0	11.2	10.0
LnGrp Delay(d),s/veh	51.9	43.3	33.8	110.1	22.5	29.2	45.6	36.1	36.7	43.4	67.8	69.9
LnGrp LOS	D D	45.5 D	C	F	C	23.2 C	45.0 D	D	D	73.4 D	67.0 F	65.5 F
•	U	1269		ı	691		U	477	U	<u> </u>		1
Approach Vol, veh/h					47.2						1587	
Approach LOS		42.8						37.3			60.7	
Approach LOS		D			D			D			Е	
Timer - Assigned Phs	1	2	3	4	5	6	7	8				
Phs Duration (G+Y+Rc), s	11.0	35.9	19.9	21.6	13.0	33.9	7.5	34.0				
Change Period (Y+Rc), s	4.0	5.8	4.0	* 4.7	4.0	5.8	4.0	* 4.7				
Max Green Setting (Gmax), s	7.0	30.2	16.0	* 18	9.0	28.2	5.0	* 29				
Max Q Clear Time (g_c+l1), s	11.5	29.9	15.9	13.0	11.4	17.3	4.6	32.8				
Green Ext Time (p_c), s	0.0	0.2	0.0	1.5	0.0	2.7	0.0	0.0				
Intersection Summary												
HCM 6th Ctrl Delay			50.0									
HCM 6th LOS			D									
Notes												

^{*} HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	ሻ	<u> </u>	7	ች	<u> </u>	7	ሻ	^	7	ሻ	^	7
Traffic Volume (veh/h)	286	389	344	138	168	107	93	61	86	378	345	413
Future Volume (veh/h)	286	389	344	138	168	107	93	61	86	378	345	413
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00	U	1.00	1.00	U	1.00	1.00	U	1.00	1.00	U	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approac		No	1.00	1.00	No	1.00	1.00	No	1.00	1.00	No	1.00
Adj Sat Flow, veh/h/ln	1752	1870	1752	1752	1870	1752	1752	1752	1752	1752	1752	1752
Adj Flow Rate, veh/h	286	389	344	138	168	107	93	61	86	378	345	413
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Percent Heavy Veh, %	10	2	10	10	2	10	10	10	10	10	10	10
Cap, veh/h	297	538	414	171	397	302	117	530	236	412	1119	499
Arrive On Green	0.18	0.29	0.28	0.10	0.21	0.20	0.07	0.16	0.16	0.25	0.34	0.34
Sat Flow, veh/h	1668	1870	1485	1668	1870	1485	1668	3328	1485	1668	3328	1485
	286	389	344	138	168	107	93	61	86	378	345	413
Grp Volume(v), veh/h												
Grp Sat Flow(s), veh/h/l		1870	1485	1668	1870	1485	1668	1664	1485	1668	1664	1485
Q Serve(g_s), s	13.4	14.7	17.1	6.4	6.1	4.9	4.3	1.2	4.1	17.4	6.0	20.1
Cycle Q Clear(g_c), s	13.4	14.7	17.1	6.4	6.1	4.9	4.3	1.2	4.1	17.4	6.0	20.1
Prop In Lane	1.00	F20	1.00	1.00	207	1.00	1.00	F20	1.00	1.00	1110	1.00
Lane Grp Cap(c), veh/h		538	414	171	397	302	117	530	236	412	1119	499
V/C Ratio(X)	0.96	0.72	0.83	0.81	0.42	0.35	0.79	0.12	0.36	0.92	0.31	0.83
Avail Cap(c_a), veh/h	297	730	566	254	682	528	195	901	402	424	1358	605
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/ve		25.2	26.6	34.6	26.8	26.9	36.0	28.3	29.5	28.8	19.4	24.0
Incr Delay (d2), s/veh	42.3	2.3	7.5	11.1	0.7	0.7	11.3	0.1	0.9	24.2	0.2	7.9
Initial Q Delay(d3),s/vel		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),ve		6.6	6.6	3.0	2.7	1.7	2.1	0.5	1.5	9.4	2.3	7.7
Unsig. Movement Delay	•		04.4	45.0	07.5	07.0	47.0	00.4	20.5	FO 4	40.5	04.0
LnGrp Delay(d),s/veh	74.4	27.5	34.1	45.6	27.5	27.6	47.3	28.4	30.5	53.1	19.5	31.9
LnGrp LOS	E	C	С	D	C	С	D	C	С	D	В	С
Approach Vol, veh/h		1019			413			240			1136	
Approach Delay, s/veh		42.9			33.6			36.5			35.2	
Approach LOS		D			С			D			D	
Timer - Assigned Phs	1	2	3	4	5	6	7	8				
Phs Duration (G+Y+Rc	334	16.5	12.1	26.7	9.5	30.4	18.0	20.7				
Change Period (Y+Rc)		5.8	4.0	* 4.7	4.0	5.8	4.5	* 4.7				
Max Green Setting (Gn		19.5	12.0	* 30	9.2	30.3	13.5	* 28				
Max Q Clear Time (g_c		6.1	8.4	19.1	6.3	22.1	15.4	8.1				
Green Ext Time (p_c),	, .	0.1	0.4	2.8	0.0	2.5	0.0	1.2				
Intersection Summary	0.1	0.0	0.1	2.0	0.0	2.0	0.0	1.2				
			27.0									
HCM 6th Ctrl Delay			37.9									
HCM 6th LOS			D									
Notes												

^{*} HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	ሻ	†	7	ሻ	†	7	ሻ	ተተተ	7	ሻሻ	^ ^	7	
Traffic Volume (veh/h)	244	322	285	172	3	344	177	1573	179	373	1887	47	
Future Volume (veh/h)	244	322	285	172	3	344	177	1573	179	373	1887	47	
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approac	ch	No			No			No			No		
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	
Adj Flow Rate, veh/h	244	322	285	172	3	344	177	1573	179	373	1887	47	
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2	
Cap, veh/h	259	509	431	199	446	378	187	1909	593	391	1950	605	
Arrive On Green	0.15	0.27	0.27	0.11	0.24	0.24	0.10	0.37	0.37	0.11	0.38	0.38	
Sat Flow, veh/h	1781	1870	1585	1781	1870	1585	1781	5106	1585	3456	5106	1585	
Grp Volume(v), veh/h	244	322	285	172	3	344	177	1573	179	373	1887	47	
Grp Sat Flow(s), veh/h/l		1870	1585	1781	1870	1585	1781	1702	1585	1728	1702	1585	
Q Serve(g_s), s	16.8	18.7	19.8	11.8	0.2	26.1	12.2	34.5	9.9	13.3	44.9	2.3	
Cycle Q Clear(g_c), s	16.8	18.7	19.8	11.8	0.2	26.1	12.2	34.5	9.9	13.3	44.9	2.3	
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00	
Lane Grp Cap(c), veh/h		509	431	199	446	378	187	1909	593	391	1950	605	
V/C Ratio(X)	0.94	0.63	0.66	0.86	0.01	0.91	0.95	0.82	0.30	0.95	0.97	0.08	
Avail Cap(c_a), veh/h	259	569	482	230	539	457	187	1909	593	391	1950	605	
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Uniform Delay (d), s/ve		39.6	40.0	54.1	36.0	45.8	55.1	35.1	27.4	54.6	37.5	24.4	
Incr Delay (d2), s/veh	40.5	1.9	2.9	24.6	0.0	19.7	50.5	3.1	0.3	33.9	13.6	0.1	
Initial Q Delay(d3),s/vel		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),ve		8.9	8.0	6.6	0.1	12.3	8.1	14.7	3.8	7.6	20.8	0.9	
Unsig. Movement Delay			0.0	0.0	V. 1	12.0	0.1		0.0	1.0	20.0	0.0	
LnGrp Delay(d),s/veh	92.9	41.6	42.9	78.7	36.0	65.6	105.6	38.2	27.7	88.5	51.1	24.4	
LnGrp LOS	52.5 F	D	72.3 D	Ε	D	E	F	D	C	F	D	C	
Approach Vol, veh/h	<u>'</u>	851			519		<u> </u>	1929		<u> </u>	2307		
Approach Delay, s/veh		56.7			69.8			43.4			56.6		
Approach LOS		50.7 E			09.0 E			43.4 D			50.0 E		
Timer - Assigned Phs	1	2	3	4	5	6	7	8					
Phs Duration (G+Y+Rc), \$ 8.0	50.3	17.9	37.7	17.0	51.3	22.0	33.6					
Change Period (Y+Rc),		5.8	4.0	* 4.7	4.0	5.8	4.0	* 4.7					
Max Green Setting (Gm	na 1 k},. G	44.5	16.0	* 37	13.0	45.5	18.0	* 35					
Max Q Clear Time (g_c	+1115,3s	36.5	13.8	21.8	14.2	46.9	18.8	28.1					
Green Ext Time (p_c),		6.1	0.1	2.6	0.0	0.0	0.0	0.7					
Intersection Summary													
HCM 6th Ctrl Delay			53.3										
HCM 6th LOS			D										
Notes													

^{*} HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.



I. Truck Queuing Analysis

Truck Entry Queuing with 3 lanes (no bypass lane)

Hour	Arrivals	Cumulative Arrivals	Departures	Cumulative Departures	Queue	Length
-60	0	0	0	0	0	0
-30	6	6	10	6	0	0
0	6	12	10	12	0	0
30	20	32	10	22	10	750
60	20	52	10	32	20	1500
90	14	66	10	42	24	1800
120	14	80	10	52	28	2100
150	10	90	10	62	28	2100
180	10	100	10	72	28	2100

Truck Entry Queuing with 2 lanes plus bypass lane

Hour	Arrivals	Cumulative Arrivals	Departures	Cumulative Departures	Queue	Length
-60	0	0	0	0	0	0
-30	5	5	10	5	0	0
0	5	10	10	10	0	0
30	15	25	10	20	5	375
60	15	40	10	30	10	750
90	10	50	10	40	10	750
120	10	60	10	50	10	750
150	8	68	10	60	8	600
180	8	76	10	70	6	450



J. Old Schulte Road Merge Simtraffic Analysis

Intersection: 6: Old Schulte Road & Iron Horse Parkway

Movement	EB	EB	EB	EB	WB	WB	WB	WB	NB	NB	SB	SB
Directions Served	L	Т	Т	R	L	Т	Т	R	L	TR	L	T
Maximum Queue (ft)	154	70	61	35	28	250	226	86	66	62	150	46
Average Queue (ft)	73	17	11	4	6	131	97	35	11	11	64	7
95th Queue (ft)	134	51	37	19	22	216	196	68	39	36	127	29
Link Distance (ft)		364	364			1325	1325			655		1033
Upstream Blk Time (%)												
Queuing Penalty (veh)												
Storage Bay Dist (ft)	300			300	380			380	435		280	
Storage Blk Time (%)												
Queuing Penalty (veh)												

Intersection: 6: Old Schulte Road & Iron Horse Parkway

Movement	SB
Directions Served	R
Maximum Queue (ft)	131
Average Queue (ft)	55
95th Queue (ft)	107
Link Distance (ft)	1033
Upstream Blk Time (%)	
Queuing Penalty (veh)	
Storage Bay Dist (ft)	
Storage Blk Time (%)	
Queuing Penalty (veh)	

Intersection: 15: Bend

Movement	WB	WB
Directions Served	T	
Maximum Queue (ft)	232	122
Average Queue (ft)	30	11
95th Queue (ft)	148	69
Link Distance (ft)	364	364
Upstream Blk Time (%)	0	
Queuing Penalty (veh)	0	
Storage Bay Dist (ft)		
Storage Blk Time (%)		
Queuing Penalty (veh)		

Zone Summary

Zone wide Queuing Penalty: 0

Intersection: 6: Old Schulte Road & Iron Horse Parkway

Movement	EB	EB	EB	EB	WB	WB	WB	WB	NB	NB	SB	SB
Directions Served	L	Т	Т	R	L	Т	Т	R	L	TR	L	T
Maximum Queue (ft)	159	101	97	35	49	264	231	73	53	59	154	53
Average Queue (ft)	72	39	32	4	6	133	91	36	13	11	64	6
95th Queue (ft)	140	82	76	19	29	217	181	64	42	37	129	28
Link Distance (ft)		364	364			1325	1325			655		1033
Upstream Blk Time (%)												
Queuing Penalty (veh)												
Storage Bay Dist (ft)	300			300	380			380	435		280	
Storage Blk Time (%)												
Queuing Penalty (veh)												

Intersection: 6: Old Schulte Road & Iron Horse Parkway

SB
R
132
51
101
1033

Intersection: 15: Bend

Movement	WB	WB
Directions Served	Т	
Maximum Queue (ft)	304	143
Average Queue (ft)	42	13
95th Queue (ft)	174	71
Link Distance (ft)	364	364
Upstream Blk Time (%)		
Queuing Penalty (veh)		
Storage Bay Dist (ft)		
Storage Blk Time (%)		
Queuing Penalty (veh)		

Zone Summary

Zone wide Queuing Penalty: 0

Intersection: 6: Old Schulte Road & Iron Horse Parkway

Movement	EB	EB	EB	EB	WB	WB	WB	WB	NB	NB	SB	SB
Directions Served	L	Т	Т	R	L	Т	T	R	L	TR	L	T
Maximum Queue (ft)	189	132	128	29	41	269	216	88	61	43	147	42
Average Queue (ft)	80	45	43	3	6	136	96	38	14	11	65	5
95th Queue (ft)	148	99	94	17	26	218	189	69	44	35	121	23
Link Distance (ft)		364	364			1325	1325			655		1033
Upstream Blk Time (%)												
Queuing Penalty (veh)												
Storage Bay Dist (ft)	300			300	380			380	435		280	
Storage Blk Time (%)						0						
Queuing Penalty (veh)						0						

Intersection: 6: Old Schulte Road & Iron Horse Parkway

Movement	SB
Directions Served	R
Maximum Queue (ft)	133
Average Queue (ft)	55
95th Queue (ft)	107
Link Distance (ft)	1033
Upstream Blk Time (%)	
Queuing Penalty (veh)	
Storage Bay Dist (ft)	
Storage Blk Time (%)	
Queuing Penalty (veh)	

Intersection: 15: Bend

Movement	WB	WB
Directions Served	T	
Maximum Queue (ft)	309	270
Average Queue (ft)	39	18
95th Queue (ft)	165	100
Link Distance (ft)	364	364
Upstream Blk Time (%)	0	
Queuing Penalty (veh)	0	
Storage Bay Dist (ft)		
Storage Blk Time (%)		
Queuing Penalty (veh)		

Zone Summary

Zone wide Queuing Penalty: 0

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Appendix 3 – AERMOD Output Files:

```
** Lakes Environmental AERMOD MPI
************
** AERMOD Input Produced by:
** AERMOD View Ver. 12.0.0
** Lakes Environmental Software Inc.
** Date: 12/13/2023
** File: C:\Users\Smith\Dropbox\My PC (DESKTOP-977GSBU)\Documents\HRA\Tracy Costco DepotV4 - OP\Tracy
Costco V3\Tracy Costco V3.ADI
*************
*************
** AERMOD Control Pathway
*************
**
**
CO STARTING
 TITLEONE C:\Users\Smith\Dropbox\My PC (DESKTOP-977GSBU)\Documents\HRA\Tracy C
 MODELOPT CONC
 AVERTIME 1 PERIOD
 POLLUTID OTHER
 RUNORNOT RUN
 ERRORFIL "Tracy Costco V3.err"
CO FINISHED
************
** AERMOD Source Pathway
*************
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE2
** DESCRSRC Off-site Mobile (Exit headed west)
** PREFIX
** Length of Side = 3.66
** Configuration = Adjacent
** Emission Rate = 1.0
** Vertical Dimension = 6.80
** SZINIT = 3.16
** Nodes = 2
** 631461.238, 4175990.714, 50.99, 4.00, 1.70
** 630318.270, 4175998.025, 62.46, 4.00, 1.70
 LOCATION L0003950
                     VOLUME 631459.410 4175990.726 50.98
 LOCATION L0003951
                     VOLUME 631455.752 4175990.749 51.01
 LOCATION L0003952
                     VOLUME 631452.094 4175990.773 51.05
                     VOLUME 631448.437 4175990.796 51.09
 LOCATION L0003953
 LOCATION L0003954
                     VOLUME 631444.779 4175990.820 51.13
```

LOCATION L0003955	VOLUME	631441.122 4175990.843 51.16
LOCATION L0003956	VOLUME	631437.464 4175990.866 51.20
LOCATION L0003957	VOLUME	631433.807 4175990.890 51.24
LOCATION L0003958	VOLUME	631430.149 4175990.913 51.28
LOCATION L0003959	VOLUME	631426.492 4175990.937 51.31
LOCATION L0003960	VOLUME	631422.834 4175990.960 51.35
LOCATION L0003961	VOLUME	631419.177 4175990.983 51.39
LOCATION L0003962	VOLUME	631415.519 4175991.007 51.42
LOCATION L0003963	VOLUME	631411.862 4175991.030 51.46
LOCATION L0003964	VOLUME	631408.204 4175991.054 51.50
LOCATION L0003965	VOLUME	631404.547 4175991.077 51.53
LOCATION L0003966	VOLUME	631400.889 4175991.100 51.57
LOCATION L0003967	VOLUME	631397.232 4175991.124 51.61
LOCATION L0003968	VOLUME	631393.574 4175991.147 51.64
LOCATION L0003969	VOLUME	631389.917 4175991.171 51.68
LOCATION L0003970	VOLUME	631386.259 4175991.194 51.71
LOCATION L0003971	VOLUME	631382.602 4175991.217 51.75
LOCATION L0003972	VOLUME	631378.944 4175991.241 51.78
LOCATION L0003973	VOLUME	631375.286 4175991.264 51.82
LOCATION L0003974	VOLUME	631371.629 4175991.287 51.85
LOCATION L0003975	VOLUME	631367.971 4175991.311 51.89
LOCATION L0003976	VOLUME	631364.314 4175991.334 51.92
LOCATION L0003977	VOLUME	631360.656 4175991.358 51.96
LOCATION L0003978	VOLUME	631356.999 4175991.381 51.99
LOCATION L0003979	VOLUME	631353.341 4175991.404 52.03
LOCATION L0003980	VOLUME	631349.684 4175991.428 52.06
LOCATION L0003981	VOLUME	631346.026 4175991.451 52.10
LOCATION L0003982	VOLUME	631342.369 4175991.475 52.13
LOCATION L0003983	VOLUME	631338.711 4175991.498 52.16
LOCATION L0003984	VOLUME	631335.054 4175991.521 52.20
LOCATION L0003985	VOLUME	631331.396 4175991.545 52.23
LOCATION L0003986	VOLUME	631327.739 4175991.568 52.26
LOCATION L0003987	VOLUME	631324.081 4175991.592 52.30
LOCATION L0003988	VOLUME	631320.424 4175991.615 52.33
LOCATION L0003989	VOLUME	631316.766 4175991.638 52.37
LOCATION L0003990	VOLUME	631313.109 4175991.662 52.40
LOCATION L0003991	VOLUME	631309.451 4175991.685 52.43
LOCATION L0003992	VOLUME	631305.793 4175991.709 52.47
LOCATION L0003993	VOLUME	631302.136 4175991.732 52.50
LOCATION L0003994	VOLUME	631298.478 4175991.755 52.54
LOCATION L0003995	VOLUME	631294.821 4175991.779 52.58
LOCATION L0003996	VOLUME	631291.163 4175991.802 52.62
LOCATION L0003997	VOLUME	631287.506 4175991.826 52.67
LOCATION L0003998	VOLUME	631283.848 4175991.849 52.71
LOCATION L0003999	VOLUME	631280.191 4175991.872 52.75
LOCATION L0004000	VOLUME	631276.533 4175991.896 52.78
LOCATION L0004001	VOLUME	631272.876 4175991.919 52.80
LOCATION L0004002	VOLUME	631269.218 4175991.943 52.82
LOCATION L0004003	VOLUME	631265.561 4175991.966 52.84
LOCATION L0004004	VOLUME	631261.903 4175991.989 52.86
LOCATION L0004005	VOLUME	631258.246 4175992.013 52.88
LOCATION L0004006	VOLUME	631254.588 4175992.036 52.90
LOCATION L0004007	VOLUME	631250.931 4175992.060 52.91
LOCATION L0004007 LOCATION L0004008	VOLUME	631247.273 4175992.083 52.91
LOCATION LO004010	VOLUME	631243.616 4175992.106 52.91
LOCATION L0004010	VOLUME	631239.958 4175992.130 52.91

LOCATION L0004011	VOLUME	631236.301 4175992.153 52.92
LOCATION L0004012	VOLUME	631232.643 4175992.177 52.92
LOCATION L0004013	VOLUME	631228.985 4175992.200 52.92
LOCATION L0004014	VOLUME	631225.328 4175992.223 52.94
LOCATION L0004015	VOLUME	631221.670 4175992.247 52.95
LOCATION L0004016	VOLUME	631218.013 4175992.270 52.97
LOCATION L0004017	VOLUME	631214.355 4175992.293 52.98
LOCATION L0004018	VOLUME	631210.698 4175992.317 53.00
LOCATION L0004019	VOLUME	631207.040 4175992.340 53.02
LOCATION L0004020	VOLUME	631203.383 4175992.364 53.03
LOCATION L0004021	VOLUME	631199.725 4175992.387 53.06
LOCATION L0004022	VOLUME	631196.068 4175992.410 53.08
LOCATION L0004023	VOLUME	631192.410 4175992.434 53.11
LOCATION L0004024	VOLUME	631188.753 4175992.457 53.13
LOCATION L0004025	VOLUME	631185.095 4175992.481 53.15
LOCATION L0004026	VOLUME	631181.438 4175992.504 53.18
LOCATION L0004027	VOLUME	631177.780 4175992.527 53.19
LOCATION L0004028	VOLUME	631174.123 4175992.551 53.21
LOCATION L0004029	VOLUME	631170.465 4175992.574 53.22
LOCATION L0004030	VOLUME	631166.808 4175992.598 53.24
LOCATION L0004031	VOLUME	631163.150 4175992.621 53.25
LOCATION L0004032	VOLUME	631159.492 4175992.644 53.27
LOCATION L0004033	VOLUME	631155.835 4175992.668 53.28
LOCATION L0004034	VOLUME	631152.177 4175992.691 53.30
LOCATION L0004035	VOLUME	631148.520 4175992.715 53.31
LOCATION L0004036	VOLUME	631144.862 4175992.738 53.33
LOCATION L0004037	VOLUME	631141.205 4175992.761 53.34
LOCATION L0004037	VOLUME	631137.547 4175992.785 53.36
LOCATION L0004039	VOLUME	631133.890 4175992.808 53.37
LOCATION L0004039	VOLUME	631130.232 4175992.832 53.38
LOCATION L0004041	VOLUME	631126.575 4175992.855 53.39
LOCATION L0004042	VOLUME	631122.917 4175992.878 53.41
LOCATION L0004043	VOLUME	631119.260 4175992.902 53.42
LOCATION L0004044	VOLUME	631115.602 4175992.925 53.43
LOCATION L0004045	VOLUME	631111.945 4175992.949 53.44
LOCATION L0004046	VOLUME	631108.287 4175992.972 53.45
LOCATION L0004047	VOLUME	631104.630 4175992.995 53.47
LOCATION L0004048	VOLUME	631100.972 4175993.019 53.49
LOCATION L0004049	VOLUME	631097.315 4175993.042 53.52
LOCATION L0004050	VOLUME	631093.657 4175993.066 53.54
LOCATION L0004051	VOLUME	631089.999 4175993.089 53.57
LOCATION L0004051	VOLUME	631086.342 4175993.112 53.59
LOCATION L0004053	VOLUME	631082.684 4175993.136 53.62
LOCATION L0004054	VOLUME	631079.027 4175993.159 53.72
LOCATION L0004055	VOLUME	631075.369 4175993.183 53.85
LOCATION L0004056	VOLUME	631071.712 4175993.206 53.98
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LOCATION L0004058	VOLUME	631064.397 4175993.253 54.24
LOCATION L0004059	VOLUME	631060.739 4175993.276 54.37
LOCATION L0004060	VOLUME	631057.082 4175993.300 54.49
LOCATION L0004061	VOLUME	631053.424 4175993.323 54.60
LOCATION L0004062	VOLUME	631049.767 4175993.346 54.71
LOCATION L0004063	VOLUME	631046.109 4175993.370 54.82
LOCATION L0004064	VOLUME	631042.452 4175993.393 54.93
LOCATION L0004065	VOLUME	631038.794 4175993.416 55.04
LOCATION L0004066	VOLUME	631035.137 4175993.440 55.15

LOCATION L0004067	VOLUME	631031.479 4175993.463 55.24
LOCATION L0004068	VOLUME	631027.822 4175993.487 55.31
LOCATION L0004069	VOLUME	631024.164 4175993.510 55.37
LOCATION L0004009	VOLUME	631020.507 4175993.533 55.44
LOCATION L0004070 LOCATION L0004071	VOLUME	631016.849 4175993.557 55.50
LOCATION L0004072	VOLUME	631013.191 4175993.580 55.56
LOCATION L0004073	VOLUME	631009.534 4175993.604 55.63
LOCATION L0004074	VOLUME	631005.876 4175993.627 55.68
LOCATION L0004075	VOLUME	631002.219 4175993.650 55.72
LOCATION L0004076	VOLUME	630998.561 4175993.674 55.77
LOCATION L0004077	VOLUME	630994.904 4175993.697 55.81
LOCATION L0004078	VOLUME	630991.246 4175993.721 55.86
LOCATION L0004079	VOLUME	630987.589 4175993.744 55.90
LOCATION L0004080	VOLUME	630983.931 4175993.767 55.94
LOCATION L0004081	VOLUME	630980.274 4175993.791 56.03
LOCATION L0004082	VOLUME	630976.616 4175993.814 56.11
LOCATION L0004083	VOLUME	630972.959 4175993.838 56.19
LOCATION L0004084	VOLUME	630969.301 4175993.861 56.27
LOCATION L0004085	VOLUME	630965.644 4175993.884 56.35
LOCATION L0004086	VOLUME	630961.986 4175993.908 56.44
LOCATION L0004087	VOLUME	630958.329 4175993.931 56.52
LOCATION L0004088	VOLUME	630954.671 4175993.955 56.59
LOCATION L0004089	VOLUME	630951.014 4175993.978 56.67
LOCATION L0004089	VOLUME	630947.356 4175994.001 56.75
		630943.698 4175994.001 56.75
LOCATION LO004091	VOLUME	
LOCATION L0004092	VOLUME	630940.041 4175994.048 56.90
LOCATION L0004093	VOLUME	630936.383 4175994.072 56.98
LOCATION L0004094	VOLUME	630932.726 4175994.095 57.05
LOCATION L0004095	VOLUME	630929.068 4175994.118 57.13
LOCATION L0004096	VOLUME	630925.411 4175994.142 57.20
LOCATION L0004097	VOLUME	630921.753 4175994.165 57.27
LOCATION L0004098	VOLUME	630918.096 4175994.189 57.35
LOCATION L0004099	VOLUME	630914.438 4175994.212 57.42
LOCATION L0004100	VOLUME	630910.781 4175994.235 57.49
LOCATION L0004101	VOLUME	630907.123 4175994.259 57.57
LOCATION L0004102	VOLUME	630903.466 4175994.282 57.64
LOCATION L0004103	VOLUME	630899.808 4175994.306 57.71
LOCATION L0004104	VOLUME	630896.151 4175994.329 57.78
LOCATION L0004105	VOLUME	630892.493 4175994.352 57.86
LOCATION L0004106	VOLUME	630888.836 4175994.376 57.93
LOCATION L0004107	VOLUME	630885.178 4175994.399 58.01
LOCATION L0004108	VOLUME	630881.521 4175994.423 58.08
LOCATION L0004109	VOLUME	630877.863 4175994.446 58.16
LOCATION L0004110	VOLUME	630874.206 4175994.469 58.24
LOCATION L0004111	VOLUME	630870.548 4175994.493 58.32
LOCATION L0004112	VOLUME	630866.890 4175994.516 58.39
LOCATION L0004113	VOLUME	630863.233 4175994.539 58.47
LOCATION L0004114	VOLUME	630859.575 4175994.563 58.56
LOCATION L0004114 LOCATION L0004115	VOLUME	630855.918 4175994.586 58.66
LOCATION L0004113 LOCATION L0004116	VOLUME	630852.260 4175994.610 58.76
LOCATION L0004116 LOCATION L0004117	VOLUME	630848.603 4175994.633 58.86
LOCATION L0004117 LOCATION L0004118	VOLUME	630844.945 4175994.656 58.96
LOCATION L0004118 LOCATION L0004119		
LUCATION LUUU4119		
	VOLUME	630841.288 4175994.680 59.06
LOCATION L0004120	VOLUME	630837.630 4175994.703 59.16

LOCATION L0004123	VOLUME	630826.658 4175994.773 59.39
LOCATION L0004124	VOLUME	630823.000 4175994.797 59.46
LOCATION L0004125	VOLUME	630819.343 4175994.820 59.54
LOCATION L0004126	VOLUME	630815.685 4175994.844 59.61
LOCATION L0004127	VOLUME	630812.028 4175994.867 59.69
LOCATION L0004128	VOLUME	630808.370 4175994.890 59.76
LOCATION L0004129	VOLUME	630804.713 4175994.914 59.83
LOCATION L0004130	VOLUME	630801.055 4175994.937 59.90
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LOCATION L0004132	VOLUME	630793.740 4175994.984 60.04
LOCATION L0004133	VOLUME	630790.082 4175995.007 60.11
LOCATION L0004134	VOLUME	630786.425 4175995.031 60.24
LOCATION L0004135	VOLUME	630782.767 4175995.054 60.49
LOCATION L0004136	VOLUME	630779.110 4175995.078 60.73
LOCATION L0004137	VOLUME	630775.452 4175995.101 60.97
LOCATION L0004138	VOLUME	630771.795 4175995.124 61.21
LOCATION L0004139	VOLUME	630768.137 4175995.148 61.45
LOCATION L0004140	VOLUME	630764.480 4175995.171 61.69
LOCATION L0004141	VOLUME	630760.822 4175995.195 61.73
LOCATION L0004142	VOLUME	630757.165 4175995.218 61.69
LOCATION L0004143	VOLUME	630753.507 4175995.241 61.64
LOCATION L0004144	VOLUME	630749.850 4175995.265 61.60
LOCATION L0004145	VOLUME	630746.192 4175995.288 61.55
LOCATION L0004146	VOLUME	630742.535 4175995.312 61.51
LOCATION L0004147	VOLUME	630738.877 4175995.335 61.46
LOCATION L0004148	VOLUME	630735.220 4175995.358 61.16
LOCATION L0004149	VOLUME	630731.562 4175995.382 60.87
LOCATION L0004150	VOLUME	630727.905 4175995.405 60.57
LOCATION L0004151	VOLUME	630724.247 4175995.429 60.27
LOCATION L0004152	VOLUME	630720.589 4175995.452 59.98
LOCATION L0004153	VOLUME	630716.932 4175995.475 59.68
LOCATION L0004154	VOLUME	630713.274 4175995.499 59.44
LOCATION L0004155	VOLUME	630709.617 4175995.522 59.33
LOCATION L0004156	VOLUME	630705.959 4175995.545 59.21
LOCATION L0004157	VOLUME	630702.302 4175995.569 59.09
LOCATION L0004158	VOLUME	630698.644 4175995.592 58.97
LOCATION L0004159	VOLUME	630694.987 4175995.616 58.85
LOCATION L0004160	VOLUME	630691.329 4175995.639 58.73
LOCATION L0004161	VOLUME	630687.672 4175995.662 58.94
LOCATION L0004162	VOLUME	630684.014 4175995.686 59.36
LOCATION L0004163	VOLUME	630680.357 4175995.709 59.78
LOCATION L0004164	VOLUME	630676.699 4175995.733 60.19
LOCATION L0004165	VOLUME	630673.042 4175995.756 60.61
LOCATION L0004166	VOLUME	630669.384 4175995.779 61.02
LOCATION L0004167	VOLUME	630665.727 4175995.803 61.44
LOCATION L0004168	VOLUME	630662.069 4175995.826 61.59
LOCATION L0004169	VOLUME	630658.412 4175995.850 61.71
LOCATION L0004170	VOLUME	630654.754 4175995.873 61.84
LOCATION L0004171	VOLUME	630651.096 4175995.896 61.96
LOCATION L0004172	VOLUME	630647.439 4175995.920 62.09
LOCATION L0004173	VOLUME	630643.781 4175995.943 62.22
LOCATION L0004174	VOLUME	630640.124 4175995.967 62.32
LOCATION L0004175	VOLUME	630636.466 4175995.990 62.33
LOCATION L0004176	VOLUME	630632.809 4175996.013 62.35
LOCATION L0004177	VOLUME	630629.151 4175996.037 62.37
LOCATION L0004178	VOLUME	630625.494 4175996.060 62.38

LOCATION L0004179	VOLUME	630621.836 4175996.084 62.40
LOCATION L0004180	VOLUME	630618.179 4175996.107 62.42
LOCATION L0004181	VOLUME	630614.521 4175996.130 62.41
LOCATION L0004182	VOLUME	630610.864 4175996.154 62.39
LOCATION L0004183	VOLUME	630607.206 4175996.177 62.36
LOCATION L0004184	VOLUME	630603.549 4175996.201 62.34
LOCATION L0004185	VOLUME	630599.891 4175996.224 62.31
LOCATION L0004186	VOLUME	630596.234 4175996.247 62.29
LOCATION L0004187	VOLUME	630592.576 4175996.271 62.26
LOCATION L0004187	VOLUME	630588.919 4175996.294 62.22
LOCATION L0004189	VOLUME	630585.261 4175996.318 62.17
LOCATION LO004190	VOLUME	630581.603 4175996.341 62.12
LOCATION L0004191	VOLUME	630577.946 4175996.364 62.07
LOCATION L0004192	VOLUME	630574.288 4175996.388 62.02
LOCATION L0004193	VOLUME	630570.631 4175996.411 61.98
LOCATION L0004194	VOLUME	630566.973 4175996.435 61.93
LOCATION L0004195	VOLUME	630563.316 4175996.458 61.88
LOCATION L0004196	VOLUME	630559.658 4175996.481 61.84
LOCATION L0004197	VOLUME	630556.001 4175996.505 61.80
LOCATION L0004198	VOLUME	630552.343 4175996.528 61.75
LOCATION L0004199	VOLUME	630548.686 4175996.552 61.71
LOCATION L0004200	VOLUME	630545.028 4175996.575 61.66
LOCATION L0004201	VOLUME	630541.371 4175996.598 61.62
LOCATION L0004202	VOLUME	630537.713 4175996.622 61.59
LOCATION L0004203	VOLUME	630534.056 4175996.645 61.55
LOCATION L0004204	VOLUME	630530.398 4175996.668 61.51
LOCATION L0004205	VOLUME	630526.741 4175996.692 61.48
LOCATION L0004206	VOLUME	630523.083 4175996.715 61.44
LOCATION L0004207	VOLUME	630519.426 4175996.739 61.40
LOCATION L0004208	VOLUME	630515.768 4175996.762 61.38
LOCATION L0004209	VOLUME	630512.111 4175996.785 61.37
LOCATION L0004210	VOLUME	630508.453 4175996.809 61.36
LOCATION L0004211	VOLUME	630504.795 4175996.832 61.35
LOCATION L0004211	VOLUME	630501.138 4175996.856 61.34
LOCATION L0004212	VOLUME	630497.480 4175996.879 61.33
LOCATION L0004214	VOLUME	630493.823 4175996.902 61.32
LOCATION L0004214 LOCATION L0004215	VOLUME	630490.165 4175996.926 61.33
LOCATION L0004215 LOCATION L0004216	VOLUME	630486.508 4175996.949 61.35
LOCATION L0004217	VOLUME	630482.850 4175996.973 61.37
	VOLUME	630479.193 4175996.996 61.39
LOCATION L0004218		
LOCATION L0004219	VOLUME	630475.535 4175997.019 61.40
LOCATION L0004220	VOLUME	630471.878 4175997.043 61.42
LOCATION L0004221	VOLUME	630468.220 4175997.066 61.44
LOCATION L0004222	VOLUME	630464.563 4175997.090 61.47
LOCATION L0004223	VOLUME	630460.905 4175997.113 61.49
LOCATION L0004224	VOLUME	630457.248 4175997.136 61.51
LOCATION L0004225	VOLUME	630453.590 4175997.160 61.54
LOCATION L0004226	VOLUME	630449.933 4175997.183 61.56
LOCATION L0004227	VOLUME	630446.275 4175997.207 61.59
LOCATION L0004228	VOLUME	630442.618 4175997.230 61.61
LOCATION L0004229	VOLUME	630438.960 4175997.253 61.63
LOCATION L0004230	VOLUME	630435.302 4175997.277 61.65
LOCATION L0004231	VOLUME	630431.645 4175997.300 61.67
LOCATION L0004232	VOLUME	630427.987 4175997.324 61.69
LOCATION L0004233	VOLUME	630424.330 4175997.347 61.71
LOCATION L0004234	VOLUME	630420.672 4175997.370 61.73

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LOCATION L0004235
                      VOLUME 630417.015 4175997.394 61.75
 LOCATION L0004236
                      VOLUME 630413.357 4175997.417 61.77
                      VOLUME 630409.700 4175997.441 61.79
 LOCATION L0004237
 LOCATION L0004238
                      VOLUME 630406.042 4175997.464 61.81
                      VOLUME 630402.385 4175997.487 61.82
 LOCATION L0004239
                      VOLUME 630398.727 4175997.511 61.84
 LOCATION L0004240
 LOCATION L0004241
                      VOLUME 630395.070 4175997.534 61.86
 LOCATION L0004242
                      VOLUME 630391.412 4175997.558 61.89
 LOCATION L0004243
                      VOLUME 630387.755 4175997.581 61.91
 LOCATION L0004244
                      VOLUME 630384.097 4175997.604 61.94
                      VOLUME 630380.440 4175997.628 61.96
 LOCATION L0004245
 LOCATION L0004246
                      VOLUME 630376.782 4175997.651 61.99
 LOCATION L0004247
                      VOLUME 630373.125 4175997.675 62.02
                      VOLUME 630369.467 4175997.698 62.04
 LOCATION L0004248
 LOCATION L0004249
                      VOLUME 630365.810 4175997.721 62.07
                      VOLUME 630362.152 4175997.745 62.09
 LOCATION L0004250
                      VOLUME 630358.494 4175997.768 62.12
 LOCATION L0004251
                      VOLUME 630354.837 4175997.791 62.15
 LOCATION L0004252
 LOCATION L0004253
                      VOLUME 630351.179 4175997.815 62.17
                      VOLUME 630347.522 4175997.838 62.20
 LOCATION L0004254
                      VOLUME 630343.864 4175997.862 62.23
 LOCATION L0004255
                      VOLUME 630340.207 4175997.885 62.27
 LOCATION L0004256
 LOCATION L0004257
                      VOLUME 630336.549 4175997.908 62.31
                      VOLUME 630332.892 4175997.932 62.34
 LOCATION L0004258
                      VOLUME 630329.234 4175997.955 62.38
 LOCATION L0004259
                      VOLUME 630325.577 4175997.979 62.42
 LOCATION L0004260
 LOCATION L0004261
                      VOLUME 630321.919 4175998.002 62.46
** End of LINE VOLUME Source ID = SLINE2
** _____
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE5
** DESCRSRC Off-site Mobile (Entrance from west)
** PREFIX
** Length of Side = 3.66
** Configuration = Adjacent
** Emission Rate = 1.0
** Vertical Dimension = 6.80
** SZINIT = 3.16
** Nodes = 2
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** 631840.270, 4175991.575, 46.78, 4.00, 1.70
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                      VOLUME 630323.323 4175984.433 62.38
 LOCATION L0004263
                      VOLUME 630326.981 4175984.451 62.35
 LOCATION L0004264
                      VOLUME 630330.638 4175984.468 62.32
 LOCATION L0004265
                      VOLUME 630334.296 4175984.485 62.29
 LOCATION L0004266
                      VOLUME 630337.953 4175984.502 62.25
 LOCATION L0004267
                      VOLUME 630341.611 4175984.520 62.22
 LOCATION L0004268
                      VOLUME 630345.269 4175984.537 62.19
 LOCATION L0004269
 LOCATION L0004270
                      VOLUME 630348.926 4175984.554 62.16
                      VOLUME 630352.584 4175984.571 62.14
 LOCATION L0004271
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LOCATION L0004272

LOCATION L0004273

LOCATION L0004274

LOCATION L0004275

VOLUME 630356.241 4175984.588 62.11

VOLUME 630359.899 4175984.606 62.09

VOLUME 630363.556 4175984.623 62.07 VOLUME 630367.214 4175984.640 62.04

LOCATION L0004276	VOLUME	630370.871 4175984.657 62.02
LOCATION L0004277	VOLUME	630374.529 4175984.674 62.00
	VOLUME	630378.187 4175984.692 61.97
LOCATION L0004278		
LOCATION L0004279	VOLUME	630381.844 4175984.709 61.95
LOCATION L0004280	VOLUME	630385.502 4175984.726 61.93
LOCATION L0004281	VOLUME	630389.159 4175984.743 61.91
LOCATION L0004282	VOLUME	630392.817 4175984.761 61.89
LOCATION L0004283	VOLUME	630396.474 4175984.778 61.87
LOCATION L0004284	VOLUME	630400.132 4175984.795 61.85
LOCATION L0004285	VOLUME	630403.790 4175984.812 61.84
LOCATION L0004286	VOLUME	630407.447 4175984.829 61.82
LOCATION L0004287	VOLUME	630411.105 4175984.847 61.80
LOCATION L0004288	VOLUME	630414.762 4175984.864 61.79
LOCATION L0004289	VOLUME	630418.420 4175984.881 61.77
LOCATION L0004290	VOLUME	630422.077 4175984.898 61.75
LOCATION L0004291	VOLUME	630425.735 4175984.916 61.73
LOCATION L0004291 LOCATION L0004292		
	VOLUME	630429.392 4175984.933 61.71
LOCATION L0004293	VOLUME	630433.050 4175984.950 61.69
LOCATION L0004294	VOLUME	630436.708 4175984.967 61.67
LOCATION L0004295	VOLUME	630440.365 4175984.984 61.65
LOCATION L0004296	VOLUME	630444.023 4175985.002 61.63
LOCATION L0004297	VOLUME	630447.680 4175985.019 61.61
LOCATION L0004298	VOLUME	630451.338 4175985.036 61.58
LOCATION L0004299	VOLUME	630454.995 4175985.053 61.55
LOCATION L0004300	VOLUME	630458.653 4175985.071 61.53
LOCATION L0004301	VOLUME	630462.310 4175985.088 61.50
LOCATION L0004302	VOLUME	630465.968 4175985.105 61.48
LOCATION L0004303	VOLUME	630469.626 4175985.122 61.45
LOCATION L0004304	VOLUME	630473.283 4175985.139 61.43
LOCATION L0004305	VOLUME	630476.941 4175985.157 61.41
LOCATION L0004306	VOLUME	630480.598 4175985.174 61.39
LOCATION L0004307	VOLUME	630484.256 4175985.191 61.37
LOCATION L0004308	VOLUME	630487.913 4175985.208 61.35
LOCATION L0004309	VOLUME	630491.571 4175985.226 61.33
LOCATION L0004310	VOLUME	630495.229 4175985.243 61.32
LOCATION L0004311	VOLUME	630498.886 4175985.260 61.33
LOCATION L0004311 LOCATION L0004312	VOLUME	630502.544 4175985.277 61.34
LOCATION L0004313	VOLUME	630506.201 4175985.294 61.36
LOCATION L0004314	VOLUME	630509.859 4175985.234 61.37
LOCATION L0004314 LOCATION L0004315	VOLUME	630513.516 4175985.329 61.38
LOCATION L0004315	VOLUME	630517.174 4175985.346 61.40
LOCATION LO004317	VOLUME	630520.831 4175985.363 61.43
LOCATION L0004318	VOLUME	630524.489 4175985.381 61.47
LOCATION L0004319	VOLUME	630528.147 4175985.398 61.50
LOCATION L0004320	VOLUME	630531.804 4175985.415 61.54
LOCATION L0004321	VOLUME	630535.462 4175985.432 61.58
LOCATION L0004322	VOLUME	630539.119 4175985.449 61.62
LOCATION L0004323	VOLUME	630542.777 4175985.467 61.66
LOCATION L0004324	VOLUME	630546.434 4175985.484 61.71
LOCATION L0004325	VOLUME	630550.092 4175985.501 61.76
LOCATION L0004326	VOLUME	630553.749 4175985.518 61.81
LOCATION L0004327	VOLUME	630557.407 4175985.535 61.86
LOCATION L0004328	VOLUME	630561.065 4175985.553 61.91
LOCATION L0004329	VOLUME	630564.722 4175985.570 61.96
LOCATION L0004330	VOLUME	630568.380 4175985.587 62.01
LOCATION L0004331	VOLUME	630572.037 4175985.604 62.06

LOCATION L0004332	VOLUME	630575.695 4175985.622 62.11
LOCATION L0004333	VOLUME	630579.352 4175985.639 62.16
LOCATION L0004334	VOLUME	630583.010 4175985.656 62.21
LOCATION L0004335	VOLUME	630586.667 4175985.673 62.26
LOCATION L0004336	VOLUME	630590.325 4175985.690 62.31
LOCATION L0004337	VOLUME	630593.983 4175985.708 62.34
LOCATION L0004338	VOLUME	630597.640 4175985.725 62.37
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LOCATION L0004340	VOLUME	630604.955 4175985.759 62.41
LOCATION L0004341	VOLUME	630608.613 4175985.777 62.43
LOCATION L0004342	VOLUME	630612.270 4175985.794 62.45
LOCATION L0004343	VOLUME	630615.928 4175985.811 62.48
LOCATION L0004344	VOLUME	630619.586 4175985.828 62.48
LOCATION L0004345	VOLUME	630623.243 4175985.845 62.47
LOCATION L0004346	VOLUME	630626.901 4175985.863 62.46
LOCATION L0004347	VOLUME	630630.558 4175985.880 62.46
LOCATION L0004348	VOLUME	630634.216 4175985.897 62.45
LOCATION L0004349	VOLUME	630637.873 4175985.914 62.45
LOCATION L0004350	VOLUME	630641.531 4175985.932 62.43
LOCATION L0004351	VOLUME	630645.188 4175985.949 62.34
LOCATION L0004351 LOCATION L0004352	VOLUME	630648.846 4175985.966 62.24
LOCATION L0004352 LOCATION L0004353	VOLUME	630652.504 4175985.983 62.14
LOCATION L0004354	VOLUME	630656.161 4175986.000 62.05
LOCATION L0004354 LOCATION L0004355	VOLUME	630659.819 4175986.018 61.95
LOCATION L0004355 LOCATION L0004356	VOLUME	630663.476 4175986.035 61.86
	VOLUME	
LOCATION LO004357		630667.134 4175986.052 61.62
LOCATION LO004358	VOLUME	630670.791 4175986.069 61.17
LOCATION LO004359	VOLUME	630674.449 4175986.087 60.73
LOCATION L0004360	VOLUME	630678.106 4175986.104 60.29
LOCATION L0004361	VOLUME	630681.764 4175986.121 59.84
LOCATION LO004362	VOLUME VOLUME	630685.422 4175986.138 59.40
LOCATION LO004363	VOLUME	630689.079 4175986.155 58.95 630692.737 4175986.173 58.86
LOCATION L0004364 LOCATION L0004365	VOLUME	
LOCATION L0004365 LOCATION L0004366		630696.394 4175986.190 58.90
	VOLUME	630700.052 4175986.207 58.94
LOCATION L0004367	VOLUME VOLUME	630703.709 4175986.224 58.98
LOCATION L0004368 LOCATION L0004369		630707.367 4175986.242 59.02
	VOLUME VOLUME	630711.025 4175986.259 59.06
LOCATION L0004370	VOLUME	630714.682 4175986.276 59.11
LOCATION LO004371		630718.340 4175986.293 59.41
LOCATION L0004372	VOLUME	630721.997 4175986.310 59.71
LOCATION L0004373	VOLUME VOLUME	630725.655 4175986.328 60.01
LOCATION L0004374		630729.312 4175986.345 60.31
LOCATION L0004375	VOLUME	630732.970 4175986.362 60.62
LOCATION L0004376	VOLUME	630736.627 4175986.379 60.92
LOCATION L0004377	VOLUME	630740.285 4175986.397 61.14
LOCATION L0004378	VOLUME	630743.943 4175986.414 61.21
LOCATION L0004379	VOLUME	630747.600 4175986.431 61.27
LOCATION L0004380	VOLUME	630751.258 4175986.448 61.34
LOCATION L0004381	VOLUME	630754.915 4175986.465 61.41
LOCATION L0004382	VOLUME	630758.573 4175986.483 61.47
LOCATION L0004383	VOLUME	630762.230 4175986.500 61.54
LOCATION L0004384	VOLUME	630765.888 4175986.517 61.40
LOCATION L0004385	VOLUME	630769.545 4175986.534 61.16
LOCATION L0004386	VOLUME	630773.203 4175986.551 60.91
LOCATION L0004387	VOLUME	630776.861 4175986.569 60.66

LOCATION L0004388	VOLUME	630780.518 4175986.586 60.41
LOCATION L0004389	VOLUME	630784.176 4175986.603 60.16
LOCATION L0004390	VOLUME	630787.833 4175986.620 59.91
LOCATION L0004390	VOLUME	630791.491 4175986.638 59.84
LOCATION L0004391 LOCATION L0004392	VOLUME	630795.148 4175986.655 59.78
LOCATION L0004393	VOLUME	630798.806 4175986.672 59.72
LOCATION L0004394	VOLUME	630802.464 4175986.689 59.67
LOCATION L0004395	VOLUME	630806.121 4175986.706 59.61
LOCATION L0004396	VOLUME	630809.779 4175986.724 59.55
LOCATION L0004397	VOLUME	630813.436 4175986.741 59.49
LOCATION L0004398	VOLUME	630817.094 4175986.758 59.42
LOCATION L0004399	VOLUME	630820.751 4175986.775 59.36
LOCATION L0004400	VOLUME	630824.409 4175986.793 59.29
LOCATION L0004401	VOLUME	630828.066 4175986.810 59.22
LOCATION L0004402	VOLUME	630831.724 4175986.827 59.15
LOCATION L0004403	VOLUME	630835.382 4175986.844 59.09
LOCATION L0004404	VOLUME	630839.039 4175986.861 59.00
LOCATION L0004405	VOLUME	630842.697 4175986.879 58.91
LOCATION L0004406	VOLUME	630846.354 4175986.896 58.81
LOCATION L0004407	VOLUME	630850.012 4175986.913 58.71
LOCATION L0004408	VOLUME	630853.669 4175986.930 58.61
LOCATION L0004409	VOLUME	630857.327 4175986.948 58.52
LOCATION L0004410	VOLUME	630860.984 4175986.965 58.42
LOCATION L0004411	VOLUME	630864.642 4175986.982 58.34
LOCATION L0004411	VOLUME	630868.300 4175986.999 58.26
LOCATION L0004412 LOCATION L0004413	VOLUME	630871.957 4175987.016 58.18
LOCATION L0004413 LOCATION L0004414	VOLUME	630875.615 4175987.010 38.18
LOCATION LO004415	VOLUME	630879.272 4175987.051 58.02
LOCATION LO004416	VOLUME	630882.930 4175987.068 57.95
LOCATION L0004417	VOLUME	630886.587 4175987.085 57.87
LOCATION L0004418	VOLUME	630890.245 4175987.103 57.80
LOCATION L0004419	VOLUME	630893.902 4175987.120 57.74
LOCATION L0004420	VOLUME	630897.560 4175987.137 57.67
LOCATION L0004421	VOLUME	630901.218 4175987.154 57.60
LOCATION L0004422	VOLUME	630904.875 4175987.171 57.54
LOCATION L0004423	VOLUME	630908.533 4175987.189 57.47
LOCATION L0004424	VOLUME	630912.190 4175987.206 57.40
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LOCATION L0004426	VOLUME	630919.505 4175987.240 57.27
LOCATION L0004427	VOLUME	630923.163 4175987.258 57.21
LOCATION L0004428	VOLUME	630926.821 4175987.275 57.14
LOCATION L0004429	VOLUME	630930.478 4175987.292 57.08
LOCATION L0004430	VOLUME	630934.136 4175987.309 57.01
LOCATION L0004431	VOLUME	630937.793 4175987.326 56.94
LOCATION L0004432	VOLUME	630941.451 4175987.344 56.87
LOCATION L0004433	VOLUME	630945.108 4175987.361 56.80
LOCATION L0004434	VOLUME	630948.766 4175987.378 56.72
LOCATION L0004435	VOLUME	630952.423 4175987.395 56.65
LOCATION L0004436	VOLUME	630956.081 4175987.412 56.58
LOCATION L0004437	VOLUME	630959.739 4175987.430 56.51
LOCATION L0004437 LOCATION L0004438	VOLUME	630963.396 4175987.447 56.43
LOCATION L0004438 LOCATION L0004439	VOLUME	630967.054 4175987.464 56.35
LOCATION L0004439 LOCATION L0004440	VOLUME	630970.711 4175987.481 56.27
	VOLUME	
LOCATION LO004441		630974.369 4175987.499 56.19
LOCATION L0004442 LOCATION L0004443	VOLUME VOLUME	630978.026 4175987.516 56.11 630981.684 4175987.533 56.03

LOCATION LOOMAAA	VOLUME	620005 241 4175007 550 55 07
LOCATION L0004444	VOLUME	630985.341 4175987.550 55.97
LOCATION L0004445	VOLUME	630988.999 4175987.567 55.92
LOCATION L0004446	VOLUME	630992.657 4175987.585 55.88
LOCATION L0004447	VOLUME	630996.314 4175987.602 55.84
LOCATION L0004448	VOLUME	630999.972 4175987.619 55.80
LOCATION L0004449	VOLUME	631003.629 4175987.636 55.76
LOCATION L0004450	VOLUME	631007.287 4175987.654 55.72
	VOLUME	
LOCATION L0004451		631010.944 4175987.671 55.66
LOCATION L0004452	VOLUME	631014.602 4175987.688 55.60
LOCATION L0004453	VOLUME	631018.260 4175987.705 55.53
LOCATION L0004454	VOLUME	631021.917 4175987.722 55.46
LOCATION L0004455	VOLUME	631025.575 4175987.740 55.40
LOCATION L0004456	VOLUME	631029.232 4175987.757 55.33
LOCATION L0004457	VOLUME	631032.890 4175987.774 55.26
LOCATION L0004458	VOLUME	631036.547 4175987.791 55.14
LOCATION L0004459	VOLUME	631040.205 4175987.809 55.02
		631043.862 4175987.826 54.90
LOCATION L0004460	VOLUME	
LOCATION L0004461	VOLUME	631047.520 4175987.843 54.77
LOCATION L0004462	VOLUME	631051.178 4175987.860 54.65
LOCATION L0004463	VOLUME	631054.835 4175987.877 54.53
LOCATION L0004464	VOLUME	631058.493 4175987.895 54.40
LOCATION L0004465	VOLUME	631062.150 4175987.912 54.26
LOCATION L0004466	VOLUME	631065.808 4175987.929 54.13
LOCATION L0004467	VOLUME	631069.465 4175987.946 53.99
LOCATION L0004468	VOLUME	631073.123 4175987.964 53.86
LOCATION L0004469	VOLUME	
		631076.780 4175987.981 53.72
LOCATION L0004470	VOLUME	631080.438 4175987.998 53.58
LOCATION L0004471	VOLUME	631084.096 4175988.015 53.52
LOCATION L0004472	VOLUME	631087.753 4175988.032 53.50
LOCATION L0004473	VOLUME	631091.411 4175988.050 53.48
LOCATION L0004474	VOLUME	631095.068 4175988.067 53.46
LOCATION L0004475	VOLUME	631098.726 4175988.084 53.44
LOCATION L0004476	VOLUME	631102.383 4175988.101 53.42
LOCATION L0004477	VOLUME	631106.041 4175988.119 53.40
LOCATION L0004477	VOLUME	631109.699 4175988.136 53.39
LOCATION L0004479	VOLUME	631113.356 4175988.153 53.38
LOCATION L0004480	VOLUME	631117.014 4175988.170 53.37
LOCATION L0004481	VOLUME	631120.671 4175988.187 53.37
LOCATION L0004482	VOLUME	631124.329 4175988.205 53.36
LOCATION L0004483	VOLUME	631127.986 4175988.222 53.35
LOCATION L0004484	VOLUME	631131.644 4175988.239 53.34
LOCATION L0004485	VOLUME	631135.301 4175988.256 53.33
LOCATION L0004486	VOLUME	631138.959 4175988.273 53.31
LOCATION L0004487	VOLUME	631142.617 4175988.291 53.30
LOCATION L0004488	VOLUME	631146.274 4175988.308 53.29
LOCATION L0004489	VOLUME	631149.932 4175988.325 53.28
LOCATION L0004490	VOLUME	631153.589 4175988.342 53.26
LOCATION L0004491	VOLUME	631157.247 4175988.360 53.25
LOCATION L0004492	VOLUME	631160.904 4175988.377 53.24
LOCATION L0004493	VOLUME	631164.562 4175988.394 53.22
LOCATION L0004494	VOLUME	631168.219 4175988.411 53.21
LOCATION L0004495	VOLUME	631171.877 4175988.428 53.20
LOCATION L0004496	VOLUME	631175.535 4175988.446 53.18
LOCATION L0004497	VOLUME	631179.192 4175988.463 53.17
LOCATION L0004498	VOLUME	631182.850 4175988.480 53.15
LOCATION L0004499	VOLUME	631186.507 4175988.497 53.13

LOCATION L0004500	VOLUME	631190.165 4175988.515 53.10
LOCATION L0004501	VOLUME	631193.822 4175988.532 53.08
LOCATION L0004502	VOLUME	631197.480 4175988.549 53.06
LOCATION L0004503	VOLUME	631201.137 4175988.566 53.04
LOCATION L0004504	VOLUME	631204.795 4175988.583 53.02
LOCATION L0004505	VOLUME	631208.453 4175988.601 53.00
LOCATION L0004506	VOLUME	631212.110 4175988.618 52.99
LOCATION L0004507	VOLUME	631215.768 4175988.635 52.97
LOCATION L0004508	VOLUME	631219.425 4175988.652 52.96
LOCATION L0004509	VOLUME	631223.083 4175988.670 52.94
LOCATION L0004510	VOLUME	631226.740 4175988.687 52.93
LOCATION L0004511	VOLUME	631230.398 4175988.704 52.92
LOCATION L0004512	VOLUME	631234.056 4175988.721 52.92
LOCATION L0004513	VOLUME	631237.713 4175988.738 52.92
LOCATION L0004514	VOLUME	631241.371 4175988.756 52.91
LOCATION L0004515	VOLUME	631245.028 4175988.773 52.91
	VOLUME	
LOCATION L0004516		631248.686 4175988.790 52.91
LOCATION L0004517	VOLUME	631252.343 4175988.807 52.91
LOCATION L0004518	VOLUME	631256.001 4175988.825 52.90
LOCATION L0004519	VOLUME	631259.658 4175988.842 52.88
LOCATION L0004520	VOLUME	631263.316 4175988.859 52.86
LOCATION L0004521	VOLUME	631266.974 4175988.876 52.84
LOCATION L0004522	VOLUME	631270.631 4175988.893 52.82
LOCATION L0004523	VOLUME	631274.289 4175988.911 52.80
LOCATION L0004524	VOLUME	631277.946 4175988.928 52.78
LOCATION L0004525	VOLUME	631281.604 4175988.945 52.74
LOCATION L0004526	VOLUME	631285.261 4175988.962 52.70
LOCATION L0004527	VOLUME	631288.919 4175988.980 52.66
LOCATION L0004528	VOLUME	631292.576 4175988.997 52.62
LOCATION L0004529	VOLUME	631296.234 4175989.014 52.58
LOCATION L0004530	VOLUME	631299.892 4175989.031 52.54
LOCATION L0004531	VOLUME	631303.549 4175989.048 52.51
LOCATION L0004532	VOLUME	631307.207 4175989.066 52.47
LOCATION L0004533	VOLUME	631310.864 4175989.083 52.44
LOCATION L0004534	VOLUME	631314.522 4175989.100 52.40
LOCATION L0004535	VOLUME	631318.179 4175989.117 52.37
LOCATION L0004536	VOLUME	631321.837 4175989.135 52.33
LOCATION L0004537	VOLUME	631325.495 4175989.152 52.30
LOCATION L0004538	VOLUME	631329.152 4175989.169 52.26
LOCATION L0004539	VOLUME	631332.810 4175989.186 52.23
LOCATION L0004539	VOLUME	631336.467 4175989.203 52.20
	VOLUME	
LOCATION L0004541		631340.125 4175989.221 52.16
LOCATION L0004542	VOLUME	631343.782 4175989.238 52.13
LOCATION L0004543	VOLUME	631347.440 4175989.255 52.09
LOCATION L0004544	VOLUME	631351.097 4175989.272 52.06
LOCATION L0004545	VOLUME	631354.755 4175989.289 52.02
LOCATION L0004546	VOLUME	631358.413 4175989.307 51.99
LOCATION L0004547	VOLUME	631362.070 4175989.324 51.95
LOCATION L0004548	VOLUME	631365.728 4175989.341 51.92
LOCATION L0004549	VOLUME	631369.385 4175989.358 51.88
LOCATION L0004550	VOLUME	631373.043 4175989.376 51.85
LOCATION L0004551	VOLUME	631376.700 4175989.393 51.81
LOCATION L0004551 LOCATION L0004552	VOLUME	631380.358 4175989.410 51.78
	VOLUME	
LOCATION LO004553		631384.015 4175989.427 51.74
LOCATION L0004554	VOLUME	631387.673 4175989.444 51.70
LOCATION L0004555	VOLUME	631391.331 4175989.462 51.67

LOCATION L0004556	VOLUME	631394.988 4175989.479 51.63
LOCATION L0004557	VOLUME	631398.646 4175989.496 51.60
LOCATION L0004558	VOLUME	631402.303 4175989.513 51.56
LOCATION L0004559	VOLUME	631405.961 4175989.531 51.52
LOCATION L0004560	VOLUME	631409.618 4175989.548 51.48
LOCATION L0004561	VOLUME	631413.276 4175989.565 51.45
LOCATION L0004562	VOLUME	631416.933 4175989.582 51.41
LOCATION L0004563	VOLUME	631420.591 4175989.599 51.37
LOCATION L0004564	VOLUME	631424.249 4175989.617 51.34
LOCATION L0004565	VOLUME	631427.906 4175989.634 51.30
LOCATION L0004566	VOLUME	631431.564 4175989.651 51.26
LOCATION L0004567	VOLUME	631435.221 4175989.668 51.22
LOCATION L0004568	VOLUME	631438.879 4175989.686 51.19
LOCATION L0004569	VOLUME	631442.536 4175989.703 51.15
LOCATION L0004570	VOLUME	631446.194 4175989.720 51.11
LOCATION L0004571	VOLUME	631449.852 4175989.737 51.07
LOCATION L0004571 LOCATION L0004572	VOLUME	631453.509 4175989.754 51.04
LOCATION L0004572 LOCATION L0004573	VOLUME	631457.167 4175989.772 51.00
LOCATION L0004574	VOLUME	631460.824 4175989.789 50.96
LOCATION L0004574 LOCATION L0004575	VOLUME	631464.482 4175989.806 50.92
LOCATION L0004575	VOLUME	631468.139 4175989.823 50.89
LOCATION L0004577	VOLUME	631471.797 4175989.841 50.85
LOCATION L0004577 LOCATION L0004578	VOLUME	631475.454 4175989.858 50.81
	VOLUME	
LOCATION LO004579		631479.112 4175989.875 50.77
LOCATION LO004580	VOLUME	631482.770 4175989.892 50.73
LOCATION LO004581	VOLUME	631486.427 4175989.909 50.69
LOCATION L0004582	VOLUME	631490.085 4175989.927 50.65
LOCATION LO004583	VOLUME	631493.742 4175989.944 50.61
LOCATION L0004584	VOLUME	631497.400 4175989.961 50.57
LOCATION L0004585 LOCATION L0004586	VOLUME	631501.057 4175989.978 50.53 631504.715 4175989.996 50.49
	VOLUME	
LOCATION L0004587 LOCATION L0004588	VOLUME VOLUME	631508.372 4175990.013 50.44 631512.030 4175990.030 50.40
LOCATION L0004589	VOLUME	631515.688 4175990.047 50.36
LOCATION L0004589 LOCATION L0004590	VOLUME	631519.345 4175990.047 50.30
LOCATION L0004590 LOCATION L0004591	VOLUME	631523.003 4175990.004 50.32
LOCATION L0004591 LOCATION L0004592	VOLUME	631526.660 4175990.092 50.24
LOCATION L0004592 LOCATION L0004593	VOLUME	631530.318 4175990.116 50.19
	VOLUME	631533.975 4175990.110 50.19
LOCATION L0004594 LOCATION L0004595	VOLUME	631537.633 4175990.150 50.11
LOCATION L0004595	VOLUME	631541.291 4175990.168 50.07
	VOLUME	
LOCATION L0004597 LOCATION L0004598	VOLUME	631544.948 4175990.185 50.03 631548.606 4175990.202 49.99
LOCATION L0004599	VOLUME	631552.263 4175990.219 49.96
LOCATION L0004399 LOCATION L0004600	VOLUME	631555.921 4175990.237 49.92
LOCATION L0004600 LOCATION L0004601	VOLUME	631559.578 4175990.254 49.88
LOCATION L0004601 LOCATION L0004602	VOLUME	631563.236 4175990.271 49.85
LOCATION L0004602 LOCATION L0004603	VOLUME	631566.893 4175990.288 49.81
LOCATION L0004603 LOCATION L0004604	VOLUME	631570.551 4175990.305 49.78
LOCATION L0004604 LOCATION L0004605	VOLUME	631574.209 4175990.323 49.73
LOCATION L0004605 LOCATION L0004606	VOLUME	631577.866 4175990.340 49.69
LOCATION L0004606 LOCATION L0004607	VOLUME	631581.524 4175990.357 49.65
LOCATION L0004607 LOCATION L0004608	VOLUME	631585.181 4175990.374 49.61
LOCATION L0004609	VOLUME	631588.839 4175990.392 49.56
LOCATION L0004610	VOLUME	631592.496 4175990.409 49.52
LOCATION L0004611	VOLUME	631596.154 4175990.426 49.48
LOCATION LUUUTUII	4 OFOME	051570.157 71/5770.720 77.70

LOCATION L0004612	VOLUME	631599.811 4175990.443 49.44
LOCATION L0004613		631603.469 4175990.460 49.40
	VOLUME	
LOCATION L0004614	VOLUME	631607.127 4175990.478 49.36
LOCATION L0004615	VOLUME	631610.784 4175990.495 49.32
LOCATION L0004616	VOLUME	631614.442 4175990.512 49.28
LOCATION L0004617	VOLUME	631618.099 4175990.529 49.24
LOCATION L0004618	VOLUME	631621.757 4175990.547 49.20
LOCATION L0004619	VOLUME	631625.414 4175990.564 49.16
LOCATION L0004620	VOLUME	631629.072 4175990.581 49.12
LOCATION L0004621	VOLUME	631632.730 4175990.598 49.07
LOCATION L0004622	VOLUME	631636.387 4175990.615 49.03
LOCATION L0004623	VOLUME	631640.045 4175990.633 48.99
LOCATION L0004624	VOLUME	631643.702 4175990.650 48.95
LOCATION L0004625	VOLUME	631647.360 4175990.667 48.90
LOCATION L0004626	VOLUME	631651.017 4175990.684 48.85
LOCATION L0004627	VOLUME	631654.675 4175990.702 48.80
LOCATION L0004628	VOLUME	631658.332 4175990.719 48.75
LOCATION L0004629	VOLUME	631661.990 4175990.736 48.70
LOCATION L0004630	VOLUME	631665.648 4175990.753 48.65
LOCATION L0004631	VOLUME	631669.305 4175990.770 48.60
LOCATION L0004632	VOLUME	631672.963 4175990.788 48.55
LOCATION L0004633	VOLUME	631676.620 4175990.805 48.51
LOCATION L0004634	VOLUME	631680.278 4175990.822 48.47
LOCATION L0004635	VOLUME	631683.935 4175990.839 48.43
LOCATION L0004636	VOLUME	631687.593 4175990.857 48.39
LOCATION L0004637	VOLUME	631691.250 4175990.874 48.35
LOCATION L0004638	VOLUME	631694.908 4175990.891 48.31
LOCATION L0004639	VOLUME	631698.566 4175990.908 48.27
LOCATION L0004640	VOLUME	631702.223 4175990.925 48.24
LOCATION L0004641	VOLUME	631705.881 4175990.943 48.21
LOCATION L0004642	VOLUME	631709.538 4175990.960 48.17
LOCATION L0004643	VOLUME	631713.196 4175990.977 48.14
LOCATION L0004644	VOLUME	631716.853 4175990.994 48.11
LOCATION L0004645	VOLUME	631720.511 4175991.012 48.07
LOCATION L0004646	VOLUME	631724.168 4175991.029 48.03
LOCATION L0004647	VOLUME	631727.826 4175991.046 48.00
LOCATION L0004648	VOLUME	631731.484 4175991.063 47.96
LOCATION L0004649	VOLUME	631735.141 4175991.080 47.92
LOCATION L0004650	VOLUME	631738.799 4175991.098 47.89
LOCATION L0004651	VOLUME	631742.456 4175991.115 47.85
LOCATION L0004652	VOLUME	631746.114 4175991.132 47.81
LOCATION L0004653	VOLUME	631749.771 4175991.149 47.78
LOCATION L0004654	VOLUME	631753.429 4175991.166 47.74
LOCATION L0004655	VOLUME	631757.087 4175991.184 47.71
LOCATION L0004656	VOLUME	631760.744 4175991.201 47.67
LOCATION L0004657	VOLUME	631764.402 4175991.218 47.64
LOCATION L0004658	VOLUME	631768.059 4175991.235 47.60
LOCATION L0004659	VOLUME	631771.717 4175991.253 47.57
LOCATION L0004660	VOLUME	631775.374 4175991.270 47.53
LOCATION L0004661	VOLUME	631779.032 4175991.287 47.50
LOCATION L0004661	VOLUME	63179.032 4173991.287 47.30
LOCATION L0004662 LOCATION L0004663	VOLUME	631786.347 4175991.321 47.43
LOCATION L0004664	VOLUME	631790.005 4175991.339 47.39
LOCATION LO004665	VOLUME	631793.662 4175991.356 47.35
LOCATION LO004666	VOLUME	631797.320 4175991.373 47.29
LOCATION L0004667	VOLUME	631800.977 4175991.390 47.24

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LOCATION L0004668
                       VOLUME 631804.635 4175991.408 47.18
 LOCATION L0004669
                       VOLUME 631808.292 4175991.425 47.13
                       VOLUME 631811.950 4175991.442 47.07
 LOCATION L0004670
 LOCATION L0004671
                       VOLUME 631815.607 4175991.459 47.02
                       VOLUME 631819.265 4175991.476 46.99
 LOCATION L0004672
                       VOLUME 631822.923 4175991.494 46.97
 LOCATION L0004673
 LOCATION L0004674
                       VOLUME 631826.580 4175991.511 46.96
 LOCATION L0004675
                       VOLUME 631830.238 4175991.528 46.94
 LOCATION L0004676
                       VOLUME 631833.895 4175991.545 46.92
                       VOLUME 631837.553 4175991.563 46.90
 LOCATION L0004677
** End of LINE VOLUME Source ID = SLINE5
 LOCATION STCK1
                       POINT
                                631795.630 4175800.440
                                                          49.010
** DESCRSRC Idling Point 1
 LOCATION STCK2
                       POINT
                                631795.630 4175700.440
                                                          50.050
** DESCRSRC Idling Point 2
 LOCATION STCK3
                       POINT
                                631795.630 4175600.440
                                                          50.880
** DESCRSRC Idling Point 3
 LOCATION STCK4
                       POINT
                                631795.630 4175500.440
                                                          51.620
** DESCRSRC Idling Point 4
 LOCATION STCK5
                                                          52.430
                       POINT
                                631795.630 4175400.440
** DESCRSRC Idling Point 5
 LOCATION STCK6
                       POINT
                                631520.630 4175800.440
                                                          52.040
** DESCRSRC Idling Point 6
 LOCATION STCK7
                       POINT
                                631520.630 4175700.440
                                                          53.120
** DESCRSRC Idling Point 7
 LOCATION STCK8
                       POINT
                                631520.630 4175600.440
                                                          54.140
** DESCRSRC Idling Point 8
 LOCATION STCK9
                       POINT
                                631520.630 4175500.440
                                                          54.970
** DESCRSRC Idling Point 9
 LOCATION STCK10
                       POINT
                                631520.630 4175400.440
                                                          55.830
** DESCRSRC Idling Point 10
 LOCATION STCK11
                       POINT
                                631460.630 4175700.440
                                                          53.820
** DESCRSRC Idling Point 11
 LOCATION STCK12
                       POINT
                                631460.630 4175600.440
                                                          54.860
** DESCRSRC Idling Point 12
 LOCATION STCK13
                       POINT
                                631310.630 4175700.440
                                                          55.610
** DESCRSRC Idling Point 13
                                631310.630 4175600.440
 LOCATION STCK14
                       POINT
                                                          56,730
** DESCRSRC Idling Point 14
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE6
** DESCRSRC On-site Mobile
** PREFIX
** Length of Side = 3.66
** Configuration = Adjacent
** Emission Rate = 1.0
** Vertical Dimension = 6.80
** SZINIT = 3.16
** Nodes = 5
** 631836.604, 4175987.908, 46.89, 4.00, 1.70
** 631845.986, 4175258.007, 53.24, 4.00, 1.70
** 631570.162, 4175259.883, 58.84, 4.00, 1.70
** 631470.715, 4175338.690, 58.55, 4.00, 1.70
** 631468.839, 4175993.537, 50.84, 4.00, 1.70
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LOCATION L0002348	VOLUME	631836.628 4175986.080 47.02
LOCATION L0002349	VOLUME	631836.675 4175982.422 47.09
LOCATION L0002350	VOLUME	631836.722 4175978.765 47.17
LOCATION L0002351	VOLUME	631836.769 4175975.108 47.25
LOCATION L0002352	VOLUME	631836.816 4175971.451 47.31
LOCATION L0002353	VOLUME	631836.863 4175967.793 47.31
LOCATION L0002354	VOLUME	631836.910 4175964.136 47.31
LOCATION L0002355	VOLUME	631836.957 4175960.479 47.31
LOCATION L0002356	VOLUME	631837.004 4175956.821 47.31
LOCATION L0002357	VOLUME	631837.051 4175953.164 47.31
LOCATION L0002358	VOLUME	631837.098 4175949.507 47.31
LOCATION L0002359	VOLUME	631837.145 4175945.849 47.30
LOCATION L0002360	VOLUME	631837.192 4175942.192 47.30
LOCATION L0002361	VOLUME	631837.239 4175938.535 47.32
LOCATION L0002362	VOLUME	631837.286 4175934.878 47.35
LOCATION L0002363	VOLUME	631837.333 4175931.220 47.38
LOCATION L0002364	VOLUME	631837.380 4175927.563 47.41
LOCATION L0002365	VOLUME	631837.427 4175923.906 47.43
LOCATION L0002366	VOLUME	631837.474 4175920.248 47.46
LOCATION L0002367	VOLUME	631837.521 4175916.591 47.49
LOCATION L0002368	VOLUME	631837.568 4175912.934 47.52
LOCATION L0002369	VOLUME	631837.615 4175909.276 47.55
LOCATION L0002370	VOLUME	631837.662 4175905.619 47.58
LOCATION L0002371	VOLUME	631837.709 4175901.962 47.62
LOCATION L0002372	VOLUME	631837.756 4175898.305 47.65
LOCATION L0002373	VOLUME	631837.803 4175894.647 47.68
LOCATION L0002374	VOLUME	631837.850 4175890.990 47.72
LOCATION L0002375	VOLUME	631837.897 4175887.333 47.75
LOCATION L0002376	VOLUME	631837.944 4175883.675 47.79
LOCATION L0002377	VOLUME	631837.991 4175880.018 47.82
LOCATION L0002378	VOLUME	631838.038 4175876.361 47.85
LOCATION L0002379	VOLUME	631838.085 4175872.703 47.88
LOCATION L0002380	VOLUME	631838.132 4175869.046 47.92
LOCATION L0002381	VOLUME	631838.179 4175865.389 47.95
LOCATION L0002382	VOLUME	631838.226 4175861.732 47.98
LOCATION L0002383	VOLUME	631838.273 4175858.074 48.02
LOCATION L0002384	VOLUME	631838.320 4175854.417 48.05
LOCATION L0002385	VOLUME	631838.367 4175850.760 48.08
LOCATION L0002386	VOLUME	631838.414 4175847.102 48.11
LOCATION L0002387	VOLUME	631838.461 4175843.445 48.14
	VOLUME	
LOCATION L0002388		631838.508 4175839.788 48.18
LOCATION L0002389	VOLUME	631838.555 4175836.130 48.21
LOCATION L0002390	VOLUME	631838.602 4175832.473 48.24
LOCATION L0002391	VOLUME	631838.649 4175828.816 48.27
LOCATION L0002392	VOLUME	631838.696 4175825.159 48.30
LOCATION L0002393	VOLUME	631838.743 4175821.501 48.33
LOCATION L0002394	VOLUME	631838.790 4175817.844 48.36
LOCATION L0002395	VOLUME	631838.837 4175814.187 48.40
LOCATION L0002396	VOLUME	631838.884 4175810.529 48.43
LOCATION L0002397	VOLUME	631838.931 4175806.872 48.46
LOCATION L0002398	VOLUME	631838.978 4175803.215 48.50
LOCATION L0002399	VOLUME	631839.025 4175799.558 48.53
LOCATION L0002400	VOLUME	631839.072 4175795.900 48.57
LOCATION L0002401	VOLUME	631839.119 4175792.243 48.60
LOCATION L0002401 LOCATION L0002402	VOLUME	631839.166 4175788.586 48.63
LOCATION L0002402 LOCATION L0002403	VOLUME	631839.100 4175788.580 48.65
LOCATION L0002403	V OLUME	031037.413 41/3/04.740 40.0/

LOCATION L0002404	VOLUME	631839.260 4175781.271 48.71
LOCATION L0002405	VOLUME	631839.307 4175777.614 48.74
LOCATION L0002406	VOLUME	631839.354 4175773.956 48.78
LOCATION L0002407	VOLUME	631839.401 4175770.299 48.82
LOCATION L0002408	VOLUME	631839.448 4175766.642 48.85
LOCATION L0002409	VOLUME	631839.495 4175762.985 48.89
LOCATION L0002410	VOLUME	631839.542 4175759.327 48.93
LOCATION L0002411	VOLUME	631839.589 4175755.670 48.96
LOCATION L0002412	VOLUME	631839.636 4175752.013 49.00
LOCATION L0002413	VOLUME	631839.683 4175748.355 49.04
LOCATION L0002414	VOLUME	631839.730 4175744.698 49.07
LOCATION L0002414 LOCATION L0002415	VOLUME	631839.777 4175741.041 49.11
LOCATION L0002416	VOLUME	631839.824 4175737.383 49.15
LOCATION L0002417	VOLUME	631839.871 4175733.726 49.19
LOCATION L0002417 LOCATION L0002418	VOLUME	631839.918 4175730.069 49.22
LOCATION L0002418 LOCATION L0002419	VOLUME	631839.965 4175726.412 49.26
LOCATION L0002419 LOCATION L0002420	VOLUME	631840.012 4175722.754 49.30
	VOLUME	631840.059 4175719.097 49.33
LOCATION L0002421		
LOCATION L0002422	VOLUME	631840.106 4175715.440 49.36
LOCATION L0002423	VOLUME	631840.153 4175711.782 49.40
LOCATION L0002424	VOLUME	631840.200 4175708.125 49.43
LOCATION L0002425	VOLUME	631840.247 4175704.468 49.47
LOCATION L0002426	VOLUME	631840.294 4175700.810 49.50
LOCATION L0002427	VOLUME	631840.341 4175697.153 49.54
LOCATION L0002428	VOLUME	631840.388 4175693.496 49.57
LOCATION L0002429	VOLUME	631840.435 4175689.839 49.60
LOCATION L0002430	VOLUME	631840.482 4175686.181 49.64
LOCATION L0002431	VOLUME	631840.530 4175682.524 49.67
LOCATION L0002432	VOLUME	631840.577 4175678.867 49.70
LOCATION L0002433	VOLUME	631840.624 4175675.209 49.73
LOCATION L0002434	VOLUME	631840.671 4175671.552 49.76
LOCATION L0002435	VOLUME	631840.718 4175667.895 49.79
LOCATION L0002436	VOLUME	631840.765 4175664.237 49.83
LOCATION L0002437	VOLUME	631840.812 4175660.580 49.86
LOCATION L0002438	VOLUME	631840.859 4175656.923 49.88
LOCATION L0002439	VOLUME	631840.906 4175653.266 49.91
LOCATION L0002440	VOLUME	631840.953 4175649.608 49.94
LOCATION L0002441	VOLUME	631841.000 4175645.951 49.97
LOCATION L0002442	VOLUME	631841.047 4175642.294 50.00
LOCATION L0002443	VOLUME	631841.094 4175638.636 50.03
LOCATION L0002444	VOLUME	631841.141 4175634.979 50.06
LOCATION L0002445	VOLUME	631841.188 4175631.322 50.09
LOCATION L0002446	VOLUME	631841.235 4175627.665 50.12
LOCATION L0002447	VOLUME	631841.282 4175624.007 50.15
LOCATION L0002448	VOLUME	631841.329 4175620.350 50.18
LOCATION L0002449	VOLUME	631841.376 4175616.693 50.21
LOCATION L0002450	VOLUME	631841.423 4175613.035 50.24
LOCATION L0002451	VOLUME	631841.470 4175609.378 50.27
LOCATION L0002452	VOLUME	631841.517 4175605.721 50.30
LOCATION L0002453	VOLUME	631841.564 4175602.063 50.33
LOCATION L0002454	VOLUME	631841.611 4175598.406 50.36
LOCATION L0002455	VOLUME	631841.658 4175594.749 50.39
LOCATION L0002456	VOLUME	631841.705 4175591.092 50.41
LOCATION L0002457	VOLUME	631841.752 4175587.434 50.44
LOCATION L0002458	VOLUME	631841.799 4175583.777 50.47
LOCATION L0002459	VOLUME	631841.846 4175580.120 50.49

LOCATION L0002460	VOLUME	631841.893 4175576.462 50.52
LOCATION L0002461	VOLUME	631841.940 4175572.805 50.55
LOCATION L0002462	VOLUME	631841.987 4175569.148 50.57
LOCATION L0002463	VOLUME	631842.034 4175565.490 50.60
LOCATION L0002464	VOLUME	631842.081 4175561.833 50.63
LOCATION L0002465	VOLUME	631842.128 4175558.176 50.65
LOCATION L0002466	VOLUME	631842.175 4175554.519 50.68
LOCATION L0002467	VOLUME	631842.222 4175550.861 50.71
LOCATION L0002468	VOLUME	631842.269 4175547.204 50.73
LOCATION L0002469	VOLUME	631842.316 4175543.547 50.76
LOCATION L0002470	VOLUME	631842.363 4175539.889 50.78
LOCATION L0002471	VOLUME	631842.410 4175536.232 50.81
LOCATION L0002472	VOLUME	631842.457 4175532.575 50.83
LOCATION L0002473	VOLUME	631842.504 4175528.917 50.86
LOCATION L0002474	VOLUME	631842.551 4175525.260 50.89
LOCATION L0002475	VOLUME	631842.598 4175521.603 50.91
LOCATION L0002476	VOLUME	631842.645 4175517.946 50.94
LOCATION L0002477	VOLUME	631842.692 4175514.288 50.96
LOCATION L0002478	VOLUME	631842.739 4175510.631 50.99
	VOLUME	
LOCATION L0002479		631842.786 4175506.974 51.01
LOCATION L0002480	VOLUME	631842.833 4175503.316 51.04
LOCATION L0002481	VOLUME	631842.880 4175499.659 51.07
LOCATION L0002482	VOLUME	631842.927 4175496.002 51.09
LOCATION L0002483	VOLUME	631842.974 4175492.344 51.12
LOCATION L0002484	VOLUME	631843.021 4175488.687 51.15
LOCATION L0002485	VOLUME	631843.068 4175485.030 51.17
LOCATION L0002486	VOLUME	631843.115 4175481.373 51.20
LOCATION L0002487	VOLUME	631843.162 4175477.715 51.23
LOCATION L0002488	VOLUME	631843.209 4175474.058 51.26
LOCATION L0002489	VOLUME	631843.256 4175470.401 51.28
LOCATION L0002490	VOLUME	631843.303 4175466.743 51.31
LOCATION L0002491	VOLUME	631843.350 4175463.086 51.34
LOCATION L0002491	VOLUME	631843.397 4175459.429 51.37
LOCATION L0002492 LOCATION L0002493	VOLUME	
		631843.444 4175455.772 51.40
LOCATION L0002494	VOLUME	631843.491 4175452.114 51.43
LOCATION L0002495	VOLUME	631843.538 4175448.457 51.46
LOCATION L0002496	VOLUME	631843.585 4175444.800 51.49
LOCATION L0002497	VOLUME	631843.632 4175441.142 51.52
LOCATION L0002498	VOLUME	631843.679 4175437.485 51.55
LOCATION L0002499	VOLUME	631843.726 4175433.828 51.58
LOCATION L0002500	VOLUME	631843.773 4175430.170 51.61
LOCATION L0002501	VOLUME	631843.820 4175426.513 51.64
LOCATION L0002502	VOLUME	631843.867 4175422.856 51.67
LOCATION L0002503	VOLUME	631843.914 4175419.199 51.70
LOCATION L0002504	VOLUME	631843.961 4175415.541 51.73
LOCATION L0002505	VOLUME	631844.008 4175411.884 51.76
LOCATION L0002506	VOLUME	631844.055 4175408.227 51.79
LOCATION L0002507	VOLUME	631844.102 4175404.569 51.82
LOCATION L0002508	VOLUME	631844.149 4175400.912 51.86
LOCATION L0002509	VOLUME	631844.196 4175397.255 51.89
LOCATION L0002510	VOLUME	631844.243 4175393.597 51.92
LOCATION L0002511	VOLUME	631844.290 4175389.940 51.95
LOCATION L0002512	VOLUME	631844.337 4175386.283 51.98
LOCATION L0002513	VOLUME	631844.384 4175382.626 52.02
LOCATION L0002514	VOLUME	631844.431 4175378.968 52.05
LOCATION L0002515	VOLUME	631844.478 4175375.311 52.09

LOCATION LOOPER	VOLUME	(21044 525 4175271 (54 52 12
LOCATION L0002516	VOLUME	631844.525 4175371.654 52.12
LOCATION L0002517	VOLUME	631844.572 4175367.996 52.16
LOCATION L0002518	VOLUME	631844.619 4175364.339 52.19
LOCATION L0002519	VOLUME	631844.666 4175360.682 52.23
LOCATION L0002520	VOLUME	631844.713 4175357.024 52.26
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LOCATION L0002523	VOLUME	631844.854 4175346.053 52.37
LOCATION L0002524	VOLUME	631844.901 4175342.395 52.40
LOCATION L0002525	VOLUME	631844.948 4175338.738 52.44
LOCATION L0002526	VOLUME	631844.995 4175335.081 52.47
LOCATION L0002527	VOLUME	631845.042 4175331.423 52.51
LOCATION L0002528	VOLUME	631845.089 4175327.766 52.54
LOCATION L0002529	VOLUME	631845.136 4175324.109 52.58
LOCATION L0002530	VOLUME	631845.183 4175320.451 52.62
LOCATION L0002530	VOLUME	631845.230 4175316.794 52.66
LOCATION L0002532	VOLUME	631845.277 4175313.137 52.70
LOCATION L0002533	VOLUME	631845.324 4175309.480 52.73
LOCATION L0002534	VOLUME	631845.371 4175305.822 52.77
LOCATION L0002535	VOLUME	631845.418 4175302.165 52.81
LOCATION L0002536	VOLUME	631845.465 4175298.508 52.85
LOCATION L0002537	VOLUME	631845.512 4175294.850 52.89
LOCATION L0002538	VOLUME	631845.559 4175291.193 52.93
LOCATION L0002539	VOLUME	631845.606 4175287.536 52.97
LOCATION L0002540	VOLUME	631845.653 4175283.879 53.01
LOCATION L0002541	VOLUME	631845.700 4175280.221 53.06
LOCATION L0002542	VOLUME	631845.747 4175276.564 53.10
LOCATION L0002543	VOLUME	631845.795 4175272.907 53.14
LOCATION L0002544	VOLUME	631845.842 4175269.249 53.18
LOCATION L0002545	VOLUME	631845.889 4175265.592 53.22
LOCATION L0002546	VOLUME	631845.936 4175261.935 53.27
LOCATION L0002547	VOLUME	631845.983 4175258.277 53.31
LOCATION L0002548	VOLUME	631842.599 4175258.030 53.35
LOCATION L0002549	VOLUME	631838.942 4175258.055 53.40
LOCATION L0002549 LOCATION L0002550	VOLUME	631835.284 4175258.079 53.44
LOCATION L0002551	VOLUME	631831.627 4175258.104 53.48
LOCATION L0002552	VOLUME	631827.969 4175258.129 53.52
LOCATION L0002553	VOLUME	631824.312 4175258.154 53.57
LOCATION L0002554	VOLUME	631820.654 4175258.179 53.63
LOCATION L0002555	VOLUME	631816.997 4175258.204 53.68
LOCATION L0002556	VOLUME	631813.339 4175258.229 53.73
LOCATION L0002557	VOLUME	631809.682 4175258.254 53.78
LOCATION L0002558	VOLUME	631806.024 4175258.279 53.83
LOCATION L0002559	VOLUME	631802.367 4175258.303 53.88
	VOLUME	
LOCATION L0002560		631798.709 4175258.328 53.93
LOCATION L0002561	VOLUME	631795.052 4175258.353 53.98
LOCATION L0002562	VOLUME	631791.394 4175258.378 54.02
LOCATION L0002563	VOLUME	631787.737 4175258.403 54.07
LOCATION L0002564	VOLUME	631784.079 4175258.428 54.12
LOCATION L0002565	VOLUME	631780.422 4175258.453 54.17
LOCATION L0002566	VOLUME	631776.764 4175258.478 54.22
LOCATION L0002567	VOLUME	631773.106 4175258.502 54.27
LOCATION L0002568	VOLUME	631769.449 4175258.527 54.31
	VOLUME	
LOCATION L0002569		631765.791 4175258.552 54.36
LOCATION L0002570	VOLUME	631762.134 4175258.577 54.41
LOCATION L0002571	VOLUME	631758.476 4175258.602 54.45

LOCATION L0002572	VOLUME	631754.819 4175258.627 54.50
LOCATION L0002573	VOLUME	631751.161 4175258.652 54.55
LOCATION L0002574	VOLUME	631747.504 4175258.677 54.60
LOCATION L0002575	VOLUME	631743.846 4175258.701 54.64
LOCATION L0002576	VOLUME	631740.189 4175258.726 54.69
LOCATION L0002577	VOLUME	631736.531 4175258.751 54.74
LOCATION L0002578	VOLUME	631732.874 4175258.776 54.79
LOCATION L0002579	VOLUME	631729.216 4175258.801 54.84
LOCATION L0002580	VOLUME	631725.559 4175258.826 54.89
LOCATION L0002581	VOLUME	631721.901 4175258.851 54.93
LOCATION L0002582	VOLUME	631718.244 4175258.876 54.98
LOCATION L0002583	VOLUME	631714.586 4175258.901 55.03
LOCATION L0002584	VOLUME	631710.929 4175258.925 55.08
LOCATION L0002585	VOLUME	631707.271 4175258.950 55.13
LOCATION L0002586	VOLUME	631703.614 4175258.975 55.17
LOCATION L0002587	VOLUME	631699.956 4175259.000 55.22
LOCATION L0002588	VOLUME	631696.299 4175259.025 55.26
LOCATION L0002589	VOLUME	631692.641 4175259.050 55.30
LOCATION L0002590	VOLUME	631688.984 4175259.075 55.35
LOCATION L0002591	VOLUME	631685.326 4175259.100 55.39
LOCATION L0002592	VOLUME	631681.669 4175259.124 55.43
LOCATION L0002593		
	VOLUME	631678.011 4175259.149 55.48
LOCATION L0002594	VOLUME	631674.354 4175259.174 55.54
LOCATION L0002595	VOLUME	631670.696 4175259.199 55.59
LOCATION L0002596	VOLUME	631667.039 4175259.224 55.64
LOCATION L0002597	VOLUME	631663.381 4175259.249 55.69
LOCATION L0002598	VOLUME	631659.724 4175259.274 55.74
LOCATION L0002599	VOLUME	631656.066 4175259.299 55.81
LOCATION L0002600	VOLUME	631652.408 4175259.324 55.91
LOCATION L0002601	VOLUME	631648.751 4175259.348 56.01
LOCATION L0002602	VOLUME	631645.093 4175259.373 56.11
LOCATION L0002603	VOLUME	631641.436 4175259.398 56.21
LOCATION L0002604	VOLUME	631637.778 4175259.423 56.31
LOCATION L0002605	VOLUME	631634.121 4175259.448 56.41
LOCATION L0002606	VOLUME	631630.463 4175259.473 56.59
LOCATION L0002607	VOLUME	631626.806 4175259.498 56.86
LOCATION L0002608	VOLUME	631623.148 4175259.523 57.12
LOCATION L0002609	VOLUME	631619.491 4175259.547 57.39
LOCATION L0002610	VOLUME	631615.833 4175259.572 57.65
LOCATION L0002611	VOLUME	631612.176 4175259.597 57.91
LOCATION L0002612	VOLUME	631608.518 4175259.622 58.18
LOCATION L0002613	VOLUME	631604.861 4175259.647 58.36
LOCATION L0002614	VOLUME	631601.203 4175259.672 58.53
LOCATION L0002615	VOLUME	631597.546 4175259.697 58.69
LOCATION L0002616	VOLUME	631593.888 4175259.722 58.86
LOCATION L0002617	VOLUME	631590.231 4175259.746 59.02
LOCATION L0002618	VOLUME	631586.573 4175259.771 59.19
LOCATION L0002619	VOLUME	631582.916 4175259.796 59.33
LOCATION L0002620	VOLUME	631579.258 4175259.821 59.22
LOCATION L0002621	VOLUME	631575.601 4175259.846 59.11
LOCATION L0002622	VOLUME	631571.943 4175259.871 59.00
LOCATION L0002623	VOLUME	631568.691 4175261.048 58.89
LOCATION L0002624	VOLUME	631565.825 4175263.320 58.79
LOCATION L0002625	VOLUME	631562.958 4175265.592 58.72
LOCATION L0002625 LOCATION L0002626	VOLUME	631560.091 4175267.863 58.69
LOCATION L0002626 LOCATION L0002627	VOLUME	631557.225 4175270.135 58.70
LOCATION LUUU202/	VOLUME	031337.223 4173270.133 38.70

LOCATION L0002628	VOLUME	631554.358 4175272.407 58.73
LOCATION L0002629	VOLUME	631551.492 4175274.678 58.76
LOCATION L0002630	VOLUME	631548.625 4175276.950 58.79
LOCATION L0002631	VOLUME	631545.758 4175279.222 58.83
LOCATION L0002632	VOLUME	631542.892 4175281.493 58.88
LOCATION L0002633	VOLUME	631540.025 4175283.765 58.92
LOCATION L0002634	VOLUME	631537.158 4175286.037 58.98
LOCATION L0002635	VOLUME	631534.292 4175288.308 59.04
LOCATION L0002636	VOLUME	631531.425 4175290.580 58.93
LOCATION L0002637	VOLUME	631528.559 4175292.852 58.82
LOCATION L0002638	VOLUME	631525.692 4175295.123 58.74
LOCATION L0002639	VOLUME	631522.825 4175297.395 58.70
LOCATION L0002640	VOLUME	631519.959 4175299.667 58.68
LOCATION L0002641	VOLUME	631517.092 4175301.938 58.69
LOCATION L0002642	VOLUME	631514.225 4175304.210 58.73
LOCATION L0002643	VOLUME	631511.359 4175306.482 58.80
LOCATION L0002644	VOLUME	631508.492 4175308.753 58.89
LOCATION L0002645	VOLUME	631505.626 4175311.025 58.94
LOCATION L0002646	VOLUME	631502.759 4175313.297 58.99
LOCATION L0002647	VOLUME	631499.892 4175315.568 59.04
LOCATION L0002648	VOLUME	631497.026 4175317.840 59.10
LOCATION L0002649	VOLUME	631494.159 4175320.112 59.07
LOCATION L0002650	VOLUME	631491.292 4175322.383 58.98
LOCATION L0002651	VOLUME	631488.426 4175324.655 58.90
LOCATION L0002652	VOLUME	631485.559 4175326.927 58.84
LOCATION L0002653	VOLUME	631482.693 4175329.198 58.76
LOCATION L0002654	VOLUME	631479.826 4175331.470 58.69
LOCATION L0002655	VOLUME	631476.959 4175333.742 58.65
LOCATION L0002656	VOLUME	631474.093 4175336.013 58.63
LOCATION L0002657	VOLUME	631471.226 4175338.285 58.65
LOCATION L0002658	VOLUME	631470.707 4175341.696 58.62
LOCATION L0002659	VOLUME	631470.696 4175345.353 58.58
LOCATION L0002660	VOLUME	631470.686 4175349.011 58.54
LOCATION L0002661	VOLUME	631470.675 4175352.669 58.35
LOCATION L0002662	VOLUME	631470.665 4175356.326 58.14
LOCATION L0002663	VOLUME	631470.654 4175359.984 57.93
LOCATION L0002664	VOLUME	631470.644 4175363.641 57.72
LOCATION L0002665	VOLUME	631470.633 4175367.299 57.51
LOCATION L0002666	VOLUME	631470.623 4175370.956 57.30
LOCATION L0002667	VOLUME	631470.612 4175374.614 57.09
LOCATION L0002668	VOLUME	631470.602 4175378.272 56.88
LOCATION L0002669	VOLUME	631470.591 4175381.929 56.75
LOCATION L0002670	VOLUME	631470.581 4175385.587 56.69
LOCATION L0002671	VOLUME	631470.570 4175389.244 56.63
LOCATION L0002672	VOLUME	631470.560 4175392.902 56.57
LOCATION L0002673	VOLUME	631470.549 4175396.560 56.52
LOCATION L0002674	VOLUME	631470.539 4175400.217 56.46
LOCATION L0002675	VOLUME	631470.528 4175403.875 56.40
LOCATION L0002676	VOLUME	631470.518 4175407.532 56.35
LOCATION L0002677	VOLUME	631470.507 4175411.190 56.29
LOCATION L0002678	VOLUME	631470.497 4175414.847 56.26
LOCATION L0002679	VOLUME	631470.487 4175418.505 56.22
LOCATION L0002680	VOLUME	631470.476 4175422.163 56.19
LOCATION L0002681	VOLUME	631470.466 4175425.820 56.15
LOCATION L0002682	VOLUME	631470.455 4175429.478 56.12
LOCATION L0002683	VOLUME	631470.445 4175433.135 56.08

LOCATION L0002684	VOLUME	631470.434 4175436.793 56.05
LOCATION L0002685	VOLUME	631470.424 4175440.451 56.01
LOCATION L0002686	VOLUME	631470.413 4175444.108 55.98
LOCATION L0002687	VOLUME	631470.403 4175447.766 55.95
LOCATION L0002688	VOLUME	631470.392 4175451.423 55.92
LOCATION L0002689	VOLUME	631470.382 4175455.081 55.90
LOCATION L0002690	VOLUME	631470.371 4175458.739 55.87
LOCATION L0002691	VOLUME	631470.361 4175462.396 55.84
LOCATION L0002692	VOLUME	631470.350 4175466.054 55.81
LOCATION L0002693	VOLUME	631470.340 4175469.711 55.78
LOCATION L0002694	VOLUME	631470.329 4175473.369 55.76
LOCATION L0002695	VOLUME	631470.319 4175477.026 55.73
LOCATION L0002696	VOLUME	631470.308 4175480.684 55.70
LOCATION L0002697	VOLUME	631470.298 4175484.342 55.68
LOCATION L0002698	VOLUME	631470.287 4175487.999 55.65
LOCATION L0002699	VOLUME	631470.277 4175491.657 55.62
LOCATION L0002700	VOLUME	631470.266 4175495.314 55.60
LOCATION L0002700	VOLUME	631470.256 4175498.972 55.57
LOCATION L0002701 LOCATION L0002702	VOLUME	631470.245 4175502.630 55.54
LOCATION L0002702 LOCATION L0002703	VOLUME	631470.235 4175506.287 55.52
LOCATION L0002703 LOCATION L0002704	VOLUME	631470.225 4175509.945 55.49
	VOLUME	
LOCATION L0002705		631470.214 4175513.602 55.46
LOCATION L0002706	VOLUME	631470.204 4175517.260 55.43
LOCATION L0002707	VOLUME	631470.193 4175520.917 55.41
LOCATION L0002708	VOLUME	631470.183 4175524.575 55.38
LOCATION L0002709	VOLUME	631470.172 4175528.233 55.35
LOCATION L0002710	VOLUME	631470.162 4175531.890 55.33
LOCATION L0002711	VOLUME	631470.151 4175535.548 55.30
LOCATION L0002712	VOLUME	631470.141 4175539.205 55.27
LOCATION L0002713	VOLUME	631470.130 4175542.863 55.24
LOCATION L0002714	VOLUME	631470.120 4175546.521 55.22
LOCATION L0002715	VOLUME	631470.109 4175550.178 55.19
LOCATION L0002716	VOLUME	631470.099 4175553.836 55.16
LOCATION L0002717	VOLUME	631470.088 4175557.493 55.13
LOCATION L0002718	VOLUME	631470.078 4175561.151 55.10
LOCATION L0002719	VOLUME	631470.067 4175564.808 55.07
LOCATION L0002720	VOLUME	631470.057 4175568.466 55.04
LOCATION L0002721	VOLUME	631470.046 4175572.124 55.01
LOCATION L0002722	VOLUME	631470.036 4175575.781 54.98
LOCATION L0002723	VOLUME	631470.025 4175579.439 54.95
LOCATION L0002724	VOLUME	631470.015 4175583.096 54.91
LOCATION L0002725	VOLUME	631470.004 4175586.754 54.88
LOCATION L0002726	VOLUME	631469.994 4175590.412 54.85
LOCATION L0002727	VOLUME	631469.983 4175594.069 54.82
LOCATION L0002727 LOCATION L0002728	VOLUME	631469.973 4175597.727 54.78
LOCATION L0002729	VOLUME	631469.963 4175601.384 54.74
LOCATION L0002730	VOLUME	631469.952 4175605.042 54.71
LOCATION L0002731	VOLUME	631469.942 4175608.699 54.67
LOCATION L0002732	VOLUME	631469.931 4175612.357 54.63
LOCATION L0002733	VOLUME	631469.921 4175616.015 54.60
LOCATION L0002734	VOLUME	631469.910 4175619.672 54.56
LOCATION L0002735	VOLUME	631469.900 4175623.330 54.52
LOCATION L0002736	VOLUME	631469.889 4175626.987 54.49
LOCATION L0002737	VOLUME	631469.879 4175630.645 54.45
LOCATION L0002738	VOLUME	631469.868 4175634.303 54.41
LOCATION L0002739	VOLUME	631469.858 4175637.960 54.37

LOCATION L0002740	VOLUME	631469.847 4175641.618 54.33
LOCATION L0002741	VOLUME	631469.837 4175645.275 54.29
LOCATION L0002742	VOLUME	631469.826 4175648.933 54.26
LOCATION L0002743	VOLUME	631469.816 4175652.591 54.22
LOCATION L0002744	VOLUME	631469.805 4175656.248 54.18
LOCATION L0002745	VOLUME	631469.795 4175659.906 54.14
LOCATION L0002746	VOLUME	631469.784 4175663.563 54.10
LOCATION L0002747	VOLUME	631469.774 4175667.221 54.07
LOCATION L0002748	VOLUME	631469.763 4175670.878 54.03
LOCATION L0002749	VOLUME	631469.753 4175674.536 53.99
LOCATION L0002750	VOLUME	631469.742 4175678.194 53.95
LOCATION L0002751	VOLUME	631469.732 4175681.851 53.91
LOCATION L0002752	VOLUME	631469.721 4175685.509 53.88
LOCATION L0002753	VOLUME	631469.711 4175689.166 53.84
LOCATION L0002754	VOLUME	631469.701 4175692.824 53.80
LOCATION L0002755	VOLUME	631469.690 4175696.482 53.76
LOCATION L0002756	VOLUME	631469.680 4175700.139 53.72
LOCATION L0002757	VOLUME	631469.669 4175703.797 53.69
LOCATION L0002758	VOLUME	631469.659 4175707.454 53.65
LOCATION L0002759	VOLUME	631469.648 4175711.112 53.61
LOCATION L0002760	VOLUME	631469.638 4175714.769 53.57
LOCATION L0002761	VOLUME	631469.627 4175718.427 53.54
LOCATION L0002761	VOLUME	631469.617 4175722.085 53.50
LOCATION L0002762 LOCATION L0002763	VOLUME	631469.606 4175725.742 53.46
LOCATION L0002764	VOLUME	631469.596 4175729.400 53.42
LOCATION L0002765	VOLUME	631469.585 4175733.057 53.38
LOCATION L0002766	VOLUME	631469.575 4175736.715 53.34
LOCATION L0002767	VOLUME	631469.564 4175740.373 53.30
LOCATION L0002767	VOLUME	631469.554 4175744.030 53.26
LOCATION L0002769	VOLUME	631469.543 4175747.688 53.22
LOCATION L0002770	VOLUME	631469.533 4175751.345 53.17
LOCATION L0002771	VOLUME	631469.522 4175755.003 53.13
LOCATION L0002771	VOLUME	631469.512 4175758.660 53.09
LOCATION L0002773	VOLUME	631469.501 4175762.318 53.05
LOCATION L0002774	VOLUME	631469.491 4175765.976 53.01
LOCATION L0002775	VOLUME	631469.480 4175769.633 52.96
LOCATION L0002776	VOLUME	631469.470 4175773.291 52.92
LOCATION L0002777	VOLUME	631469.459 4175776.948 52.88
LOCATION L0002778	VOLUME	631469.449 4175780.606 52.84
LOCATION L0002779	VOLUME	631469.439 4175784.264 52.80
LOCATION L0002780	VOLUME	631469.428 4175787.921 52.76
LOCATION L0002781	VOLUME	631469.418 4175791.579 52.71
LOCATION L0002782	VOLUME	631469.407 4175795.236 52.67
LOCATION L0002783	VOLUME	631469.397 4175798.894 52.63
LOCATION L0002784	VOLUME	631469.386 4175802.551 52.59
LOCATION L0002785	VOLUME	631469.376 4175806.209 52.55
LOCATION L0002786	VOLUME	631469.365 4175809.867 52.51
LOCATION L0002787	VOLUME	631469.355 4175813.524 52.47
LOCATION L0002788	VOLUME	631469.344 4175817.182 52.43
LOCATION L0002789	VOLUME	631469.334 4175820.839 52.39
LOCATION L0002790	VOLUME	631469.323 4175824.497 52.35
LOCATION L0002791	VOLUME	631469.313 4175828.155 52.31
LOCATION L0002791	VOLUME	631469.302 4175831.812 52.27
LOCATION L0002793	VOLUME	631469.292 4175835.470 52.23
LOCATION L0002794	VOLUME	631469.281 4175839.127 52.19
LOCATION L0002795	VOLUME	631469.271 4175842.785 52.15
		11.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1

LOCATION L0002796	VOLUME	631469.260 4	175846.	.443 52.12
LOCATION L0002797	VOLUME	631469.250 4		
LOCATION L0002798	VOLUME	631469.239 4		
LOCATION L0002799	VOLUME	631469.229 4	175857.	.415 52.00
LOCATION L0002800	VOLUME	631469.218 4		
LOCATION L0002801	VOLUME	631469.208 4	175864.	730 51.92
LOCATION L0002802	VOLUME	631469.197 4		
LOCATION L0002803	VOLUME	631469.187 4		
LOCATION L0002804	VOLUME	631469.177 4		
LOCATION L0002805	VOLUME	631469.166 4		
LOCATION L0002806	VOLUME	631469.156 4		
LOCATION L0002807	VOLUME	631469.145 4		
LOCATION L0002808	VOLUME	631469.135 4		
LOCATION L0002809	VOLUME	631469.124 4		
LOCATION L0002810	VOLUME	631469.114 4		
LOCATION L0002811	VOLUME	631469.103 4		
LOCATION L0002812	VOLUME	631469.093 4		
LOCATION L0002812 LOCATION L0002813	VOLUME	631469.082 4		
LOCATION L0002814	VOLUME	631469.072 4		
LOCATION L0002814 LOCATION L0002815	VOLUME	631469.061 4		
LOCATION L0002816	VOLUME	631469.051 4		
LOCATION L0002817	VOLUME	631469.040 4		
LOCATION L0002817 LOCATION L0002818	VOLUME	631469.030 4		
LOCATION L0002818 LOCATION L0002819	VOLUME	631469.019 4		
LOCATION L0002819 LOCATION L0002820	VOLUME	631469.009 4		
	VOLUME			
LOCATION L0002821 LOCATION L0002822	VOLUME	631468.998 4 631468.988 4		
	VOLUME			
LOCATION LO002823		631468.977 4		
LOCATION L0002824	VOLUME	631468.967 4		
LOCATION L0002825	VOLUME	631468.956 4		
LOCATION L0002826	VOLUME	631468.946 4		
LOCATION L0002827	VOLUME	631468.935 4		
LOCATION L0002828	VOLUME	631468.925 4		
LOCATION L0002829	VOLUME	631468.915 4		
LOCATION L0002830	VOLUME	631468.904.4		
LOCATION L0002831	VOLUME	631468.894 4		
LOCATION L0002832	VOLUME	631468.883 4		
LOCATION L0002833	VOLUME	631468.873 4		
LOCATION L0002834	VOLUME	631468.862 4		
LOCATION L0002835	VOLUME	631468.852 4		
LOCATION L0002836	VOLUME	631468.841 4	1/5992.	. /46 50.88
** End of LINE VOLUME	Source ID =	SLINE6		
** Source Parameters **	ID GLDIE	20		
** LINE VOLUME Source			1.70	2.16
SRCPARAM L0003950	0.0032051		1.70	3.16
SRCPARAM L0003951	0.0032051		1.70	3.16
SRCPARAM L0003952	0.0032051		1.70	3.16
SRCPARAM L0003953	0.0032051		1.70	3.16
SRCPARAM L0003954	0.0032051		1.70	3.16
SRCPARAM L0003955	0.0032051		1.70	3.16
SRCPARAM L0003956	0.0032051		1.70	3.16
SRCPARAM L0003957	0.0032051		1.70	3.16
SRCPARAM L0003958	0.0032051		1.70	3.16
SRCPARAM L0003959	0.0032051		1.70	3.16
SRCPARAM L0003960	0.0032051		1.70	3.16
SRCPARAM L0003961	0.0032051	282 4.00	1.70	3.16

CD CD A D A M I 0002062	0.0022051202	4.00	1.70	2.16
SRCPARAM L0003962	0.0032051282	4.00	1.70	3.16
SRCPARAM L0003963	0.0032051282	4.00	1.70	3.16
SRCPARAM L0003964	0.0032051282	4.00	1.70	3.16
SRCPARAM L0003965	0.0032051282	4.00	1.70	3.16
SRCPARAM L0003966	0.0032051282	4.00	1.70	3.16
SRCPARAM L0003967	0.0032051282	4.00	1.70	3.16
SRCPARAM L0003968	0.0032051282	4.00	1.70	3.16
SRCPARAM L0003969	0.0032051282	4.00	1.70	3.16
SRCPARAM L0003970	0.0032051282	4.00	1.70	3.16
SRCPARAM L0003971	0.0032051282	4.00	1.70	3.16
SRCPARAM L0003972	0.0032051282	4.00	1.70	3.16
SRCPARAM L0003973	0.0032051282	4.00	1.70	3.16
SRCPARAM L0003974	0.0032051282	4.00	1.70	3.16
SRCPARAM L0003975	0.0032051282	4.00	1.70	3.16
SRCPARAM L0003976	0.0032051282	4.00	1.70	3.16
SRCPARAM L0003977	0.0032051282	4.00	1.70	3.16
SRCPARAM L0003978	0.0032051282	4.00	1.70	3.16
SRCPARAM L0003979	0.0032051282	4.00	1.70	3.16
SRCPARAM L0003979 SRCPARAM L0003980	0.0032051282	4.00	1.70	3.16
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SRCPARAM L0003983	0.0032051282	4.00	1.70	3.16
SRCPARAM L0003984	0.0032051282	4.00	1.70	3.16
SRCPARAM L0003985	0.0032051282	4.00	1.70	3.16
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SRCPARAM L0003988	0.0032051282	4.00	1.70	3.16
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SRCPARAM L0004015	0.0032051282	4.00	1.70	3.16
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SRCPARAM L0004020	0.0032051282	4.00	1.70	3.16
SRCPARAM L0004021	0.0032051282	4.00	1.70	3.16
SRCPARAM L0004022	0.0032051282	4.00	1.70	3.16
SRCPARAM L0004023	0.0032051282	4.00	1.70	3.16
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SRCPARAM L0004025	0.0032051282	4.00	1.70	3.16
SRCPARAM L0004026	0.0032051282	4.00	1.70	3.16
SRCPARAM L0004027	0.0032051282	4.00	1.70	3.16
SRCPARAM L0004028	0.0032051282	4.00	1.70	3.16
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SRCPARAM L0004031	0.0032051282	4.00	1.70	3.16
SRCPARAM L0004031	0.0032051282	4.00	1.70	3.16
SRCPARAM L0004032 SRCPARAM L0004033				3.16
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SRCPARAM L0004037	0.0032051282	4.00	1.70	3.16
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SRCPARAM L0004041	0.0032051282	4.00	1.70	3.16
SRCPARAM L0004042	0.0032051282	4.00	1.70	3.16
SRCPARAM L0004043	0.0032051282	4.00	1.70	3.16
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SRCPARAM L0004046	0.0032051282	4.00	1.70	3.16
SRCPARAM L0004047	0.0032051282	4.00	1.70	3.16
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SRCPARAM L0004051 SRCPARAM L0004052	0.0032051282	4.00	1.70	3.16
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SRCPARAM L0004054	0.0032051282	4.00	1.70	3.16
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SRCPARAM L0004056	0.0032051282	4.00	1.70	3.16
SRCPARAM L0004057	0.0032051282	4.00	1.70	3.16
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SRCPARAM L0004059	0.0032051282	4.00	1.70	3.16
SRCPARAM L0004060	0.0032051282	4.00	1.70	3.16
SRCPARAM L0004061	0.0032051282	4.00	1.70	3.16
SRCPARAM L0004062	0.0032051282	4.00	1.70	3.16
SRCPARAM L0004063	0.0032051282	4.00	1.70	3.16
SRCPARAM L0004064	0.0032051282	4.00	1.70	3.16
SRCPARAM L0004065	0.0032051282	4.00	1.70	3.16
SRCPARAM L0004066	0.0032051282	4.00	1.70	3.16
SRCPARAM L0004067	0.0032051282	4.00	1.70	3.16
SRCPARAM L0004068	0.0032051282	4.00	1.70	3.16
SRCPARAM L0004069	0.0032051282	4.00	1.70	3.16
SRCPARAM L0004070	0.0032051282	4.00	1.70	3.16
SRCPARAM L0004071	0.0032051282	4.00	1.70	3.16
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SRCPARAM L0004072 SRCPARAM L0004073	0.0032051282	4.00	1.70	3.16
SICI AKAM LUUU40/3	0.0032031202	7.00	1./0	5.10

SRCPARAM L0004074	0.0032051282	4.00	1.70	3.16
SRCPARAM L0004075	0.0032051282	4.00	1.70	3.16
SRCPARAM L0004076	0.0032051282	4.00	1.70	3.16
SRCPARAM L0004077	0.0032051282	4.00	1.70	3.16
SRCPARAM L0004078	0.0032051282	4.00	1.70	3.16
SRCPARAM L0004079	0.0032051282	4.00	1.70	3.16
SRCPARAM L0004080	0.0032051282	4.00	1.70	3.16
SRCPARAM L0004081	0.0032051282	4.00	1.70	3.16
SRCPARAM L0004082	0.0032051282	4.00	1.70	3.16
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SRCPARAM L0004084	0.0032051282	4.00	1.70	3.16
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SRCPARAM L0004089	0.0032051282	4.00	1.70	3.16
SRCPARAM L0004090	0.0032051282	4.00	1.70	3.16
SRCPARAM L0004091	0.0032051282	4.00	1.70	3.16
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SRCPARAM L0004094	0.0032051282	4.00	1.70	3.16
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SRCPARAM L0004100	0.0032051282	4.00	1.70	3.16
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SRCPARAM L0004102	0.0032051282	4.00	1.70	3.16
SRCPARAM L0004103	0.0032051282	4.00	1.70	3.16
SRCPARAM L0004104	0.0032051282	4.00	1.70	3.16
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SRCPARAM L0004107	0.0032051282	4.00	1.70	3.16
SRCPARAM L0004108	0.0032051282	4.00	1.70	3.16
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SRCPARAM L0004115	0.0032051282	4.00	1.70	3.16
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SRCPARAM L0004117	0.0032051282	4.00	1.70	3.16
SRCPARAM L0004118	0.0032051282	4.00	1.70	3.16
SRCPARAM L0004119	0.0032051282	4.00	1.70	3.16
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SRCPARAM L0004124	0.0032051282	4.00	1.70	3.16
SRCPARAM L0004124	0.0032051282	4.00	1.70	3.16
SRCPARAM L0004126	0.0032051282	4.00	1.70	3.16
SRCPARAM L0004127	0.0032051282	4.00	1.70	3.16
SRCPARAM L0004128	0.0032051282	4.00	1.70	3.16
SRCPARAM L0004129	0.0032051282	4.00	1.70	3.16
SICITIONI LUUUTILI	0.0032031202	1.00	1.70	5.10

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SRCPARAM L0004132	0.0032051282	4.00	1.70	3.16
SRCPARAM L0004133	0.0032051282	4.00	1.70	3.16
SRCPARAM L0004134	0.0032051282	4.00	1.70	3.16
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SRCPARAM L0004332 SRCPARAM L0004333	0.0024038462	4.00	1.70	3.16
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SRCPARAM L0004351	0.0024038462	4.00	1.70	3.16

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SRCPARAM L0004352	0.0024038462	4.00	1.70	3.16
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SRCPARAM L0004417	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004418	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004419	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004420	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004421	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004422	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004423	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004424	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004425	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004426	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004427	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004428	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004429	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004429 SRCPARAM L0004430	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004430 SRCPARAM L0004431	0.0024038462	4.00	1.70	3.16
		4.00	1.70	
SRCPARAM L0004432	0.0024038462			3.16
SRCPARAM L0004433	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004434	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004435	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004436	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004437	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004438	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004439	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004440	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004441	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004442	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004443	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004444	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004445	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004446	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004447	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004448	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004449	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004450	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004451	0.0024038462	4.00	1.70	3.16
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SRCPARAM L0004453	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004454	0.0024038462	4.00	1.70	3.16
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SRCPARAM L0004456	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004457	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004458	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004459	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004460	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004461	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004462	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004463	0.0024038462	4.00	1.70	3.16

SRCPARAM L0004464	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004465	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004466	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004467	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004468	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004469	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004470	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004471	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004472	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004473	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004474	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004475	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004476	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004477	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004477	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004478	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004479 SRCPARAM L0004480	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004480 SRCPARAM L0004481				
	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004482	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004483	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004484	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004485	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004486	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004487	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004488	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004489	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004490	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004491	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004492	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004493	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004494	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004495	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004496	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004497	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004498	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004499	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004500	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004501	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004502	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004503	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004504	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004505	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004506	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004507	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004508	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004509	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004509	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004510	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004511 SRCPARAM L0004512	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004512 SRCPARAM L0004513	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004514	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004515	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004517	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004517	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004518	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004519	0.0024038462	4.00	1.70	3.16

CD CD A D A M I 000 4530	0.0024020462	4.00	1.70	2.16
SRCPARAM L0004520	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004521	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004522	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004523	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004524	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004525	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004526	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004527	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004528	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004529	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004530	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004531	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004532	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004533	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004534	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004535	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004536	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004537	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004538	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004539	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004539	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004541	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004542	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004543	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004544	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004545	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004546	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004547	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004548	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004549	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004550	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004551	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004551	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004553	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004554	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004555	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004556	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004557	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004558	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004559	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004560	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004561	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004562	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004563	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004564	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004565	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004566	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004567	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004568	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004569	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004570	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004571	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004572	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004573	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004574	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004574 SRCPARAM L0004575	0.0024038462	4.00	1.70	3.16
SICI AIVANI LUUU43/3	0.0024038402	4.00	1./0	5.10

SRCPARAM L0004576	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004577	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004578	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004579	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004580	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004581	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004582	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004583	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004584	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004585	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004586	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004587	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004588	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004589	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004590	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004591	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004592	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004593	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004594	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004595	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004596	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004597	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004598	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004599	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004599	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004601	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004602	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004603	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004604	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004605	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004606	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004607	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004608	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004609	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004610	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004611	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004612	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004613	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004614	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004615	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004616	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004617	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004618	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004619	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004620	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004621	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004622	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004623	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004624	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004625	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004626	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004627	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004628	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004629	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004630	0.0024038462	4.00	1.70	3.16
SRCPARAM L0004630 SRCPARAM L0004631	0.0024038462	4.00	1.70	3.16
SACFARAWI LUUU4031	0.0024038402	4.00	1.70	3.10

SRCPARAM L0004632	0.00240		4.00	1.70	3.16
SRCPARAM L0004633	0.00240	38462	4.00	1.70	3.16
SRCPARAM L0004634	0.00240	38462	4.00	1.70	3.16
SRCPARAM L0004635	0.00240	38462	4.00	1.70	3.16
SRCPARAM L0004636	0.00240	38462	4.00	1.70	3.16
SRCPARAM L0004637	0.00240		4.00	1.70	3.16
SRCPARAM L0004638	0.00240		4.00	1.70	3.16
SRCPARAM L0004639	0.00240		4.00	1.70	3.16
SRCPARAM L0004640	0.00240		4.00	1.70	3.16
SRCPARAM L0004641	0.00240		4.00	1.70	3.16
SRCPARAM L0004642	0.00240		4.00	1.70	3.16
SRCPARAM L0004643	0.00240		4.00	1.70	3.16
SRCPARAM L0004644	0.00240		4.00	1.70	3.16
SRCPARAM L0004645	0.00240	38462	4.00	1.70	3.16
SRCPARAM L0004646	0.00240	38462	4.00	1.70	3.16
SRCPARAM L0004647	0.00240	38462	4.00	1.70	3.16
SRCPARAM L0004648	0.00240	38462	4.00	1.70	3.16
SRCPARAM L0004649	0.00240	38462	4.00	1.70	3.16
SRCPARAM L0004650	0.00240	38462	4.00	1.70	3.16
SRCPARAM L0004651	0.00240		4.00	1.70	3.16
SRCPARAM L0004652	0.00240		4.00	1.70	3.16
SRCPARAM L0004653	0.00240		4.00	1.70	3.16
SRCPARAM L0004654	0.00240		4.00	1.70	3.16
SRCPARAM L0004655	0.00240		4.00	1.70	3.16
SRCPARAM L0004656	0.00240		4.00	1.70	3.16
SRCPARAM L0004657	0.00240		4.00	1.70	3.16
			4.00		
SRCPARAM L0004658	0.00240			1.70	3.16
SRCPARAM L0004659	0.00240		4.00	1.70	3.16
SRCPARAM L0004660	0.00240		4.00	1.70	3.16
SRCPARAM L0004661	0.00240		4.00	1.70	3.16
SRCPARAM L0004662	0.00240		4.00	1.70	3.16
SRCPARAM L0004663	0.00240		4.00	1.70	3.16
SRCPARAM L0004664	0.00240		4.00	1.70	3.16
SRCPARAM L0004665	0.00240		4.00	1.70	3.16
SRCPARAM L0004666	0.00240	38462	4.00	1.70	3.16
SRCPARAM L0004667	0.00240	38462	4.00	1.70	3.16
SRCPARAM L0004668	0.00240	38462	4.00	1.70	3.16
SRCPARAM L0004669	0.00240	38462	4.00	1.70	3.16
SRCPARAM L0004670	0.00240	38462	4.00	1.70	3.16
SRCPARAM L0004671	0.00240	38462	4.00	1.70	3.16
SRCPARAM L0004672	0.00240	38462	4.00	1.70	3.16
SRCPARAM L0004673	0.00240	38462	4.00	1.70	3.16
SRCPARAM L0004674	0.00240	38462	4.00	1.70	3.16
SRCPARAM L0004675	0.00240		4.00	1.70	3.16
SRCPARAM L0004676	0.00240		4.00	1.70	3.16
SRCPARAM L0004677	0.00240		4.00	1.70	3.16
**					5.10
SRCPARAM STCK1	1.0	3.840	366.000	57.71	0.1
SRCPARAM STCK2	1.0	3.840	366.000	57.71	0.1
SRCPARAM STCK3	1.0	3.840	366.000	57.71	0.1
SRCPARAM STCK4	1.0	3.840	366.000	57.71	0.1
SRCPARAM STCK5	1.0	3.840	366.000	57.71	0.1
SRCPARAM STCK6	1.0	3.840	366.000	57.71	0.1
SRCPARAM STCK7	1.0	3.840	366.000	57.71	0.1
SRCPARAM STCK8	1.0	3.840	366.000	57.71	0.1
SRCPARAM STCK9	1.0	3.840	366.000	57.71	0.1
SINCE PRIVATE STORY	1.0	J.UTU	200.000	51.11	0.1

SRCPARAM	STCK10	1.0	3.840	366.000	57.71	0.1
SRCPARAM		1.0	3.840	366.000	57.71	0.1
SRCPARAM	STCK12	1.0	3.840	366.000	57.71	0.1
SRCPARAM	STCK13	1.0	3.840	366.000	57.71	0.1
SRCPARAM	STCK14	1.0	3.840	366.000	57.71	0.1
** LINE VOLU	ME Source I	D = SLIN	IE6			
SRCPARAM :	L0002348	0.002044	9898	4.00	1.70	3.16
SRCPARAM 1	L0002349	0.002044	9898	4.00	1.70	3.16
SRCPARAM 1	L0002350	0.002044	9898	4.00	1.70	3.16
SRCPARAM 1	L0002351	0.002044	9898	4.00	1.70	3.16
SRCPARAM 1	L0002352	0.002044	9898	4.00	1.70	3.16
SRCPARAM 1	L0002353	0.002044	9898	4.00	1.70	3.16
SRCPARAM :	L0002354	0.002044	9898	4.00	1.70	3.16
SRCPARAM 1	L0002355	0.002044	9898	4.00	1.70	3.16
SRCPARAM 1	L0002356	0.002044	9898	4.00	1.70	3.16
SRCPARAM 1	L0002357	0.002044	9898	4.00	1.70	3.16
SRCPARAM 1	L0002358	0.002044	9898	4.00	1.70	3.16
SRCPARAM 1	L0002359	0.002044	9898	4.00	1.70	3.16
SRCPARAM 1	L0002360	0.002044	9898	4.00	1.70	3.16
SRCPARAM 1	L0002361	0.002044	9898	4.00	1.70	3.16
SRCPARAM 1	L0002362	0.002044	9898	4.00	1.70	3.16
SRCPARAM 1	L0002363	0.002044	9898	4.00	1.70	3.16
SRCPARAM 1	L0002364	0.002044	9898	4.00	1.70	3.16
SRCPARAM 1	L0002365	0.002044	9898	4.00	1.70	3.16
SRCPARAM 1	L0002366	0.002044	9898	4.00	1.70	3.16
SRCPARAM 1	L0002367	0.002044	9898	4.00	1.70	3.16
SRCPARAM 1	L0002368	0.002044	9898	4.00	1.70	3.16
SRCPARAM 1	L0002369	0.002044	9898	4.00	1.70	3.16
SRCPARAM 1	L0002370	0.002044	9898	4.00	1.70	3.16
SRCPARAM 1	L0002371	0.002044	9898	4.00	1.70	3.16
SRCPARAM 1	L0002372	0.002044	9898	4.00	1.70	3.16
SRCPARAM 1	L0002373	0.002044	9898	4.00	1.70	3.16
SRCPARAM 1	L0002374	0.002044	9898	4.00	1.70	3.16
SRCPARAM :	L0002375	0.002044	9898	4.00	1.70	3.16
SRCPARAM :	L0002376	0.002044	9898	4.00	1.70	3.16
SRCPARAM :	L0002377	0.002044	9898	4.00	1.70	3.16
SRCPARAM :	L0002378	0.002044	9898	4.00	1.70	3.16
SRCPARAM :	L0002379	0.002044	9898	4.00	1.70	3.16
SRCPARAM :	L0002380	0.002044	9898	4.00	1.70	3.16
SRCPARAM :	L0002381	0.002044	9898	4.00	1.70	3.16
SRCPARAM :	L0002382	0.002044	9898	4.00	1.70	3.16
SRCPARAM :		0.002044		4.00	1.70	3.16
SRCPARAM :	L0002384	0.002044		4.00	1.70	3.16
SRCPARAM :	L0002385	0.002044		4.00	1.70	3.16
SRCPARAM :	L0002386	0.002044		4.00	1.70	3.16
SRCPARAM :		0.002044		4.00	1.70	3.16
SRCPARAM :		0.002044		4.00	1.70	3.16
SRCPARAM :		0.002044		4.00	1.70	3.16
SRCPARAM 1		0.002044		4.00	1.70	3.16
SRCPARAM		0.002044		4.00	1.70	3.16
SRCPARAM		0.002044		4.00	1.70	3.16
SRCPARAM 1		0.002044		4.00	1.70	3.16
SRCPARAM 1		0.002044		4.00	1.70	3.16
SRCPARAM 1		0.002044		4.00	1.70	3.16
SRCPARAM		0.002044		4.00	1.70	3.16
SRCPARAM	L0002397	0.002044	9898	4.00	1.70	3.16

CD CD A D A M I 0002200	0.0020440000	4.00	1.70	2.16
SRCPARAM L0002398	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002399	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002400	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002401	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002402	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002403	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002404	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002405	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002406	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002407	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002408	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002409	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002409 SRCPARAM L0002410	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002411	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002412	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002413	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002414	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002415	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002416	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002417	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002418	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002419	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002420	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002421	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002422	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002422 SRCPARAM L0002423	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002424	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002425	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002426	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002427	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002428	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002429	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002430	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002431	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002432	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002433	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002434	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002435	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002436	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002437	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002438	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002439	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002440	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002441	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002441	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002442 SRCPARAM L0002443	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002444	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002445	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002446	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002447	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002448	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002449	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002450	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002451	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002452	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002453	0.0020449898	4.00	1.70	3.16

SRCPARAM L0002454	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002455	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002456	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002457	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002458	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002459	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002460	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002461	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002462	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002463	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002464	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002465	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002466	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002467	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002468	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002469	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002470	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002470	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002471	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002472 SRCPARAM L0002473	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002474	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002474 SRCPARAM L0002475	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002475 SRCPARAM L0002476	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002477	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002478	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002479	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002480	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002481	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002482	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002483	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002484	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002485	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002486	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002487	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002488	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002489	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002490	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002491	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002492	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002493	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002494	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002495	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002496	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002497	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002498	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002499	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002500	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002501	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002502	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002503	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002504	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002505	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002506	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002507	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002508	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002509	0.0020449898	4.00	1.70	3.16
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SRCPARAM L0002510	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002511	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002512	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002513	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002514	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002515	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002516	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002517	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002518	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002519	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002520	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002521	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002522	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002523	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002524	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002525	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002526	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002527	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002528	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002529	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002530	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002531	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002532	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002533	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002534	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002535	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002536	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002537	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002538	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002539	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002549 SRCPARAM L0002540	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002541	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002541 SRCPARAM L0002542	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002542 SRCPARAM L0002543	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002544 SRCPARAM L0002544	0.0020449898	4.00		3.16
SRCPARAM L0002545	0.0020449898	4.00	1.70 1.70	
SRCPARAM L0002546	0.0020449898	4.00	1.70	3.16 3.16
SRCPARAM L0002547	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002548	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002549	0.0020449898	4.00		3.16
SRCPARAM L0002549 SRCPARAM L0002550	0.0020449898	4.00	1.70 1.70	3.16
	0.0020449898			
SRCPARAM L0002551		4.00	1.70	3.16
SRCPARAM L0002552	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002553	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002554	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002555	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002556	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002557	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002558	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002559	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002560	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002561	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002562	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002563	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002564	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002565	0.0020449898	4.00	1.70	3.16

CD CD + D + 3 5 7 0000 5 6 6	0.0000110000	4.00	4 = 0	2.16
SRCPARAM L0002566	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002567	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002568	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002569	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002570	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002571	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002572	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002573	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002574	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002575	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002576	0.0020449898	4.00	1.70	3.16
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SRCPARAM L0002577	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002578	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002579	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002580	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002581	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002582	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002583	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002584	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002585	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002586	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002587	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002588	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002589	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002590	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002591	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002592	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002593	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002594	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002595	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002596	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002597	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002598	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002599	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002600	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002601	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002602	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002603	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002604	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002605	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002606	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002607	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002608	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002609	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002610	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002611	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002612	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002613	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002614	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002615	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002616	0.0020449898	4.00		3.16
SRCPARAM L0002616 SRCPARAM L0002617	0.0020449898	4.00	1.70 1.70	3.16
	0.0020449898	4.00		
SRCPARAM L0002618			1.70	3.16
SRCPARAM L0002619	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002620	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002621	0.0020449898	4.00	1.70	3.16

SRCPARAM L0002622	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002623	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002624	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002625	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002626	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002627	0.0020449898	4.00	1.70	3.16
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SRCPARAM L0002676	0.0020449898	4.00	1.70	3.16
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		4.00 4.00		
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SRCPARAM L0002732	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002733	0.0020449898	4.00	1.70	3.16

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SRCPARAM L0002734	0.0020449898	4.00	1.70	3.16
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SRCPARAM L0002737	0.0020449898	4.00	1.70	3.16
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SRCPARAM L0002771	0.0020449898	4.00	1.70	3.16
SRCPARAM L0002772	0.0020449898	4.00	1.70	3.16
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SRCPARAM L0002777	0.0020449898	4.00	1.70	3.16
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SRCPARAM L0002788	0.0020449898	4.00	1.70	3.16
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SICI AIVAIVI LUUUZ/09	0.0020447070	7.00	1.70	5.10

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SRCPARAM L0002831				3.16	
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SRCPARAM L0002835	0.0020449898	4.00	1.70	3.16	
SRCPARAM L0002836	0.0020449898	4.00	1.70	3.16	
**					
** Building Downwash **					
	12 /1 12 /1	12 41	12 /1	12 /1	12 /1
BUILDHGT STCK1	13.41 13.41	13.41	13.41	13.41	13.41
BUILDHGT STCK1	13.41 13.41	13.41	13.41	13.41	13.41
BUILDHGT STCK1	13.41 13.41	13.41	13.41	13.41	13.41
BUILDHGT STCK1	13.41 13.41	13.41	13.41	13.41	13.41
BUILDHGT STCK1	13.41 13.41	13.41	13.41	13.41	13.41
	13.41 13.41	13.41	13.41	13.71	13.41
BUILDHGT STCK1	13.41 13.41	13.41	13.41	13.41	13.41

BUILDHGT STCK2	13.41	13.41	13.41	13.41	13.41	13.41
BUILDHGT STCK2	13.41	13.41	13.41	13.41	13.41	13.41
BUILDHGT STCK2	13.41	13.41	13.41	13.41	13.41	13.41
BUILDHGT STCK2	13.41	13.41	13.41	13.41	13.41	13.41
BUILDHGT STCK2	13.41	13.41	13.41	13.41	13.41	13.41
BUILDHGT STCK2	13.41	13.41	13.41	13.41	13.41	13.41
BUILDHGT STCK3	13.41	13.41	13.41	13.41	13.41	13.41
BUILDHGT STCK3	13.41	13.41	13.41	13.41	13.41	13.41
BUILDHGT STCK3	13.41	13.41	13.41	13.41	13.41	13.41
BUILDHGT STCK3	13.41	13.41	13.41	13.41	13.41	13.41
BUILDHGT STCK3		13.41				
	13.41		13.41	13.41	13.41	13.41
BUILDHGT STCK3	13.41	13.41	13.41	13.41	13.41	13.41
BUILDHGT STCK4	13.41	13.41	13.41	13.41	13.41	13.41
BUILDHGT STCK4	13.41	13.41	13.41	13.41	13.41	13.41
BUILDHGT STCK4	13.41	13.41	13.41	13.41	13.41	13.41
BUILDHGT STCK4	13.41	13.41	13.41	13.41	13.41	13.41
BUILDHGT STCK4	13.41	13.41	13.41	13.41	13.41	13.41
BUILDHGT STCK4						
BUILDHG1 SICK4	13.41	13.41	13.41	13.41	13.41	13.41
BUILDHGT STCK5	13.41	13.41	13.41	13.41	13.41	13.41
BUILDHGT STCK5	13.41	13.41	13.41	13.41	13.41	13.41
BUILDHGT STCK5	13.41	13.41	13.41	13.41	13.41	13.41
BUILDHGT STCK5	13.41	13.41	13.41	13.41	13.41	13.41
BUILDHGT STCK5	13.41	13.41	13.41	13.41	13.41	13.41
BUILDHGT STCK5	13.41	13.41	13.41		13.41	
BUILDHULSIUKS	1341	13.41	1.5.41	13.41	13.41	13.41
Delibitor stells	15.11	15.11				
BUILDHGT STCK6	13.41	13.41	13.41	13.41	13.41	13.41
						13.41 13.41
BUILDHGT STCK6	13.41	13.41	13.41	13.41	13.41	13.41
BUILDHGT STCK6 BUILDHGT STCK6 BUILDHGT STCK6	13.41 13.41 13.41	13.41 13.41 13.41	13.41 13.41 13.41	13.41 13.41 13.41	13.41 13.41 13.41	13.41 13.41
BUILDHGT STCK6 BUILDHGT STCK6 BUILDHGT STCK6 BUILDHGT STCK6	13.41 13.41 13.41 13.41	13.41 13.41 13.41 13.41	13.41 13.41 13.41 13.41	13.41 13.41 13.41 13.41	13.41 13.41 13.41 13.41	13.41 13.41 13.41
BUILDHGT STCK6 BUILDHGT STCK6 BUILDHGT STCK6 BUILDHGT STCK6 BUILDHGT STCK6	13.41 13.41 13.41 13.41 13.41	13.41 13.41 13.41 13.41 13.41	13.41 13.41 13.41 13.41 13.41	13.41 13.41 13.41 13.41 13.41	13.41 13.41 13.41 13.41 13.41	13.41 13.41 13.41 13.41
BUILDHGT STCK6 BUILDHGT STCK6 BUILDHGT STCK6 BUILDHGT STCK6	13.41 13.41 13.41 13.41	13.41 13.41 13.41 13.41	13.41 13.41 13.41 13.41	13.41 13.41 13.41 13.41	13.41 13.41 13.41 13.41	13.41 13.41 13.41
BUILDHGT STCK6	13.41 13.41 13.41 13.41 13.41 13.41	13.41 13.41 13.41 13.41 13.41 13.41	13.41 13.41 13.41 13.41 13.41 13.41	13.41 13.41 13.41 13.41 13.41 13.41	13.41 13.41 13.41 13.41 13.41 13.41	13.41 13.41 13.41 13.41 13.41
BUILDHGT STCK6 BUILDHGT STCK6 BUILDHGT STCK6 BUILDHGT STCK6 BUILDHGT STCK6 BUILDHGT STCK6	13.41 13.41 13.41 13.41 13.41 13.41 13.41	13.41 13.41 13.41 13.41 13.41 13.41	13.41 13.41 13.41 13.41 13.41 13.41	13.41 13.41 13.41 13.41 13.41 13.41	13.41 13.41 13.41 13.41 13.41 13.41	13.41 13.41 13.41 13.41 13.41
BUILDHGT STCK6	13.41 13.41 13.41 13.41 13.41 13.41	13.41 13.41 13.41 13.41 13.41 13.41	13.41 13.41 13.41 13.41 13.41 13.41	13.41 13.41 13.41 13.41 13.41 13.41	13.41 13.41 13.41 13.41 13.41 13.41	13.41 13.41 13.41 13.41 13.41
BUILDHGT STCK6	13.41 13.41 13.41 13.41 13.41 13.41 13.41	13.41 13.41 13.41 13.41 13.41 13.41 13.41	13.41 13.41 13.41 13.41 13.41 13.41 13.41	13.41 13.41 13.41 13.41 13.41 13.41 13.41	13.41 13.41 13.41 13.41 13.41 13.41 13.41	13.41 13.41 13.41 13.41 13.41 13.41
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BUILDHGT STCK6 BUILDHGT STCK6 BUILDHGT STCK6 BUILDHGT STCK6 BUILDHGT STCK6 BUILDHGT STCK6 BUILDHGT STCK7 BUILDHGT STCK7 BUILDHGT STCK7	13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41	13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41	13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41	13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41	13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41	13.41 13.41 13.41 13.41 13.41 13.41 13.41
BUILDHGT STCK6 BUILDHGT STCK6 BUILDHGT STCK6 BUILDHGT STCK6 BUILDHGT STCK6 BUILDHGT STCK6 BUILDHGT STCK7	13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41	13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41	13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41	13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41	13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41	13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41
BUILDHGT STCK6 BUILDHGT STCK6 BUILDHGT STCK6 BUILDHGT STCK6 BUILDHGT STCK6 BUILDHGT STCK6 BUILDHGT STCK7	13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41	13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41	13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41	13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41	13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41	13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41
BUILDHGT STCK6 BUILDHGT STCK6 BUILDHGT STCK6 BUILDHGT STCK6 BUILDHGT STCK6 BUILDHGT STCK6 BUILDHGT STCK7 BUILDHGT STCK8	13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41	13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41	13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41	13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41	13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41	13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41
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BUILDHGT STCK6 BUILDHGT STCK6 BUILDHGT STCK6 BUILDHGT STCK6 BUILDHGT STCK6 BUILDHGT STCK6 BUILDHGT STCK7 BUILDHGT STCK8 BUILDHGT STCK8 BUILDHGT STCK8 BUILDHGT STCK8	13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41	13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41	13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41	13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41	13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41	13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41
BUILDHGT STCK6 BUILDHGT STCK6 BUILDHGT STCK6 BUILDHGT STCK6 BUILDHGT STCK6 BUILDHGT STCK6 BUILDHGT STCK7 BUILDHGT STCK8 BUILDHGT STCK8 BUILDHGT STCK8 BUILDHGT STCK8 BUILDHGT STCK8 BUILDHGT STCK8	13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41	13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41	13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41	13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41	13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41	13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41
BUILDHGT STCK6 BUILDHGT STCK6 BUILDHGT STCK6 BUILDHGT STCK6 BUILDHGT STCK6 BUILDHGT STCK6 BUILDHGT STCK7 BUILDHGT STCK7 BUILDHGT STCK7 BUILDHGT STCK7 BUILDHGT STCK7 BUILDHGT STCK7 BUILDHGT STCK8	13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41	13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41	13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41	13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41	13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41	13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41
BUILDHGT STCK6 BUILDHGT STCK6 BUILDHGT STCK6 BUILDHGT STCK6 BUILDHGT STCK6 BUILDHGT STCK6 BUILDHGT STCK7 BUILDHGT STCK7 BUILDHGT STCK7 BUILDHGT STCK7 BUILDHGT STCK7 BUILDHGT STCK7 BUILDHGT STCK8	13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41	13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41	13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41	13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41	13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41	13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41
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BUILDHGT STCK6 BUILDHGT STCK6 BUILDHGT STCK6 BUILDHGT STCK6 BUILDHGT STCK6 BUILDHGT STCK6 BUILDHGT STCK7 BUILDHGT STCK7 BUILDHGT STCK7 BUILDHGT STCK7 BUILDHGT STCK7 BUILDHGT STCK7 BUILDHGT STCK8 BUILDHGT STCK9 BUILDHGT STCK9	13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41	13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41	13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41	13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41	13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41	13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41
BUILDHGT STCK6 BUILDHGT STCK7 BUILDHGT STCK7 BUILDHGT STCK7 BUILDHGT STCK7 BUILDHGT STCK7 BUILDHGT STCK7 BUILDHGT STCK8 BUILDHGT STCK9 BUILDHGT STCK9 BUILDHGT STCK9 BUILDHGT STCK9	13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41	13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41	13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41	13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41	13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41	13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41 13.41
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DIJI DIJOT CTCK10	12 41	12 41	12 41	12 41	12 41	12 41
BUILDHGT STCK10	13.41	13.41	13.41	13.41	13.41	13.41
BUILDHGT STCK10	13.41	13.41	13.41	13.41	13.41	13.41
BUILDHGT STCK10	13.41	13.41	13.41	13.41	13.41	13.41
BUILDHGT STCK10	13.41	13.41	13.41	13.41	13.41	13.41
BUILDHGT STCK10	13.41	13.41	13.41	13.41	13.41	13.41
BUILDHGT STCK10	13.41	13.41	13.41	13.41	13.41	13.41
DIM DIGE GEOMA	10.41	10.41	10 11	10 41	10 41	10 41
BUILDHGT STCK11	13.41	13.41	13.41	13.41	13.41	13.41
BUILDHGT STCK11	13.41	13.41	13.41	13.41	13.41	13.41
BUILDHGT STCK11	13.41	13.41	13.41	13.41	13.41	13.41
BUILDHGT STCK11	13.41	13.41	13.41	13.41	13.41	13.41
BUILDHGT STCK11						
	13.41	13.41	13.41	13.41	13.41	13.41
BUILDHGT STCK11	13.41	13.41	13.41	13.41	13.41	13.41
BUILDHGT STCK12	13.41	13.41	13.41	13.41	13.41	13.41
BUILDHGT STCK12	13.41	13.41	13.41	13.41	13.41	13.41
BUILDHGT STCK12	13.41	13.41	13.41	13.41	13.41	13.41
BUILDHGT STCK12	13.41	13.41	13.41	13.41	13.41	13.41
BUILDHGT STCK12	13.41	13.41	13.41	13.41	13.41	13.41
BUILDHGT STCK12	13.41	13.41	13.41	13.41	13.41	13.41
DUILDIIGI SICKIZ	13.41	13.41	13.41	13.41	13.41	13.41
BUILDHGT STCK13	13.41	13.41	13.41	13.41	13.41	13.41
BUILDHGT STCK13	13.41	13.41	13.41	13.41	13.41	13.41
BUILDHGT STCK13				13.41	13.41	13.41
	13.41	13.41	13.41			
BUILDHGT STCK13	13.41	13.41	13.41	13.41	13.41	13.41
BUILDHGT STCK13	13.41	13.41	13.41	13.41	13.41	13.41
BUILDHGT STCK13	13.41	13.41	13.41	13.41	13.41	13.41
BUILDHGT STCK14	13.41	13.41	13.41	13.41	13.41	13.41
BUILDHGT STCK14	13.41	13.41	13.41	13.41	13.41	13.41
BUILDHGT STCK14	13.41	13.41	13.41	13.41	13.41	13.41
BUILDHGT STCK14	13.41	13.41	13.41	13.41	13.41	13.41
BUILDHGT STCK14	13.41	13.41	13.41	13.41	13.41	13.41
BUILDHGT STCK14	13.41	13.41	13.41	13.41	13.41	13.41
BUILDWID STCK1	384.92	482.64	565.69	631.55	678.23	704.29
	708.96				672.94	
BUILDWID STCK1		692.08	658.44	675.96		
BUILDWID STCK1	613.14	573.35	517.25	445.44	360.09	
BUILDWID STCK1	384.92	482.64	565.69	631.55	678.23	704.29
BUILDWID STCK1	708.96	692.08	658.44	675.96	672.94	649.47
BUILDWID STCK1	613.14	573.35	517.25	445.44	360.09	275.51
BUILDWID STCK2	384.92	482.64	565.69	631.55	678.23	704.29
BUILDWID STCK2	708.96	692.08	658.44	675.96	672.94	649.47
BUILDWID STCK2	613.14	573.35	517.25	445.44	360.09	
BUILDWID STCK2	384.92	482.64	565.69	631.55	678.23	
BUILDWID STCK2	708.96	692.08	658.44	675.96	672.94	
BUILDWID STCK2	613.14	573.35	517.25	445.44	360.09	275.51
DI III DWID CTCV2	204.02	102 (1	565 (0	621 EF	670 22	704.20
BUILDWID STCK3	384.92	482.64	565.69	631.55	678.23	
BUILDWID STCK3	708.96	692.08	658.44	675.96	672.94	
BUILDWID STCK3	613.14	573.35	517.25	445.44	360.09	
BUILDWID STCK3	384.92	482.64	565.69	631.55	678.23	704.29
BUILDWID STCK3	708.96	692.08	658.44	675.96		
BUILDWID STCK3	613.14	573.35	517.25	445.44		
DOILD WID BICKS	013.17	515.55	511.45	TTJ.TT	500.09	413.31

BUILDWID STCK4	384.92	482.64	565.69	631.55	678.23	704.29
BUILDWID STCK4	708.96	692.08	658.44	675.96	672.94	649.47
BUILDWID STCK4	613.14	573.35	517.25	445.44	360.09	275.51
BUILDWID STCK4	384.92	482.64	565.69	631.55	678.23	704.29
BUILDWID STCK4	708.96	692.08	658.44	675.96	672.94	649.47
BUILDWID STCK4	613.14	573.35	517.25	445.44	360.09	275.51
BUILDWID STCK5	384.92	482.64	565.69	631.55	678.23	704.29
BUILDWID STCK5	708.96	692.08	658.44	675.96	672.94	649.47
BUILDWID STCK5	613.14	573.35	517.25	445.44	360.09	275.51
BUILDWID STCK5	384.92	482.64	565.69	631.55	678.23	704.29
BUILDWID STCK5	708.96	692.08	658.44	675.96	672.94	649.47
BUILDWID STCK5	613.14	573.35	517.25	445.44	360.09	275.51
DOILD WID STORS	015.14	373.33	317.23	773.77	300.07	273.31
BUILDWID STCK6	233.23	306.20	369.86	422.29	461.88	487.44
BUILDWID STCK6	498.19	493.80	477.61	487.60	483.83	465.35
BUILDWID STCK6	432.74	386.98	337.60	445.44	360.09	275.51
BUILDWID STCK6	233.23	306.20	369.86	422.29	461.88	487.44
BUILDWID STCK6	498.19	692.08	658.44	487.60	483.83	465.35
BUILDWID STCK6	432.74	386.98	337.60	445.44	360.09	275.51
	.52,, .		227.00		200.03	_,0.01
BUILDWID STCK7	384.92	306.20	369.86	422.29	461.88	487.44
BUILDWID STCK7	498.19	493.80	477.61	487.60	483.83	465.35
BUILDWID STCK7	432.74	386.98	337.60	282.28	360.09	275.51
BUILDWID STCK7	384.92	306.20	369.86	422.29	461.88	487.44
BUILDWID STCK7	498.19	493.80	658.44	487.60	483.83	465.35
BUILDWID STCK7	432.74	386.98	337.60	282.28	360.09	275.51
DOILD WID STORY	732.77	300.70	337.00	202.20	300.07	273.31
BUILDWID STCK8	384.92	306.20	369.86	422.29	461.88	487.44
BUILDWID STCK8	498.19	493.80	477.61	487.60	483.83	465.35
BUILDWID STCK8	432.74	386.98	337.60	282.28	218.38	275.51
BUILDWID STCK8	384.92	306.20	369.86	422.29	461.88	487.44
BUILDWID STCK8	498.19	493.80	658.44	675.96	483.83	465.35
BUILDWID STCK8	432.74	386.98	337.60	282.28	218.38	275.51
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BUILDWID STCK9	384.92	482.64	565.69	631.55	461.88	487.44
BUILDWID STCK9	498.19	493.80	477.61	487.60	483.83	465.35
BUILDWID STCK9	432.74	386.98	337.60	282.28	218.38	275.51
BUILDWID STCK9	384.92	482.64	565.69	631.55	461.88	487.44
BUILDWID STCK9	498.19	493.80	658.44	675.96	672.94	649.47
BUILDWID STCK9	432.74	386.98	337.60	282.28	218.38	275.51
BUILDWID STCK10	384.92	482.64	565.69	631.55	678.23	704.29
BUILDWID STCK10 BUILDWID STCK10	708.96	692.08	658.44	675.96	672.94	649.47
BUILDWID STCK10	613.14	573.35	517.25	445.44	360.09	275.51
BUILDWID STCK10	384.92	482.64	565.69	631.55	678.23	704.29
BUILDWID STCK10	708.96	692.08	658.44	675.96	672.94	649.47
BUILDWID STCK10	613.14	573.35	517.25	445.44	360.09	275.51
BUILDWID STCK11	233.23	306.20	369.86	422.29	461.88	487.44
BUILDWID STCK11	498.19	493.80	477.61	487.60	483.83	465.35
BUILDWID STCK11	432.74	386.98	337.60	282.28	218.38	153.18
BUILDWID STCK11	233.23	306.20	369.86	422.29	461.88	487.44
BUILDWID STCK11	498.19	493.80	477.61	487.60	483.83	465.35
BUILDWID STCK11	432.74	386.98	337.60	282.28	218.38	153.18
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BUILDWID STCK12	233.23	306.20	369.86	422.29	461.88	487.44
BUILDWID STCK12	498.19	493.80	477.61	487.60	483.83	465.35
BUILDWID STCK12	432.74	386.98	337.60	282.28	218.38	153.18
BUILDWID STCK12	233.23	306.20	369.86	422.29	461.88	487.44
BUILDWID STCK12	498.19	493.80	477.61	487.60	483.83	465.35
BUILDWID STCK12	432.74	386.98	337.60	282.28	218.38	153.18
BUILDWID STCK13	233.23	306.20	369.86	422.29	461.88	487.44
BUILDWID STCK13	498.19	493.80	477.61	487.60	483.83	465.35
BUILDWID STCK13	432.74	386.98	337.60	282.28	218.38	153.18
BUILDWID STCK13	233.23	306.20	369.86	422.29	461.88	487.44
BUILDWID STCK13	498.19	493.80	477.61	487.60	483.83	465.35
BUILDWID STCK13	432.74	386.98	337.60	282.28	218.38	153.18
BUILDWID STCK14	233.23	306.20	369.86	422.29	461.88	487.44
BUILDWID STCK14	498.19	493.80	477.61	487.60	483.83	465.35
BUILDWID STCK14	432.74	386.98	337.60	282.28	218.38	153.18
BUILDWID STCK14	233.23	306.20	369.86	422.29	461.88	487.44
BUILDWID STCK14	498.19	493.80	477.61	487.60	483.83	465.35
BUILDWID STCK14	432.74	386.98	337.60	282.28	218.38	153.18
BUILDLEN STCK1	675.96	672.94	649.47	613.14	573.35	517.25
BUILDLEN STCK1	445.44	360.09	275.51	384.92	482.64	565.69
BUILDLEN STCK1	631.55	678.23	704.29	708.96	692.08	658.44
BUILDLEN STCK1	675.96	672.94	649.47	613.14	573.35	517.25
BUILDLEN STCK1	445.44	360.09	275.51	384.92	482.64	565.69
BUILDLEN STCK1	631.55	678.23	704.29	708.96	692.08	658.44
BUILDLEN STCK2	675.96	672.94	649.47	613.14	573.35	517.25
BUILDLEN STCK2	445.44	360.09	275.51	384.92	482.64	565.69
BUILDLEN STCK2	631.55	678.23	704.29	708.96	692.08	658.44
BUILDLEN STCK2	675.96	672.94	649.47	613.14	573.35	517.25
BUILDLEN STCK2	445.44	360.09	275.51	384.92	482.64	565.69
BUILDLEN STCK2	631.55	678.23	704.29	708.96	692.08	658.44
BUILDLEN STCK2	031.33	076.23	704.29	708.90	092.08	036.44
BUILDLEN STCK3	675.96	672.94	649.47	613.14	573.35	517.25
BUILDLEN STCK3	445.44	360.09	275.51	384.92	482.64	565.69
BUILDLEN STCK3	631.55	678.23	704.29	708.96	692.08	658.44
BUILDLEN STCK3	675.96	672.94	649.47	613.14	573.35	517.25
					482.64	
BUILDLEN STCK3	445.44	360.09	275.51	384.92		565.69
BUILDLEN STCK3	631.55	678.23	704.29	708.96	692.08	658.44
BUILDLEN STCK4	675.96	672.94	649.47	613.14	573.35	517.25
BUILDLEN STCK4	445.44	360.09	275.51	384.92	482.64	565.69
BUILDLEN STCK4	631.55	678.23	704.29	708.96	692.08	658.44
BUILDLEN STCK4	675.96	672.94	649.47	613.14	573.35	517.25
BUILDLEN STCK4	445.44	360.09	275.51	384.92	482.64	565.69
BUILDLEN STCK4	631.55	678.23	704.29	708.96	692.08	658.44
BUILDLEN STCK5	675.96	672.94	649.47	613.14	573.35	517.25
BUILDLEN STCK5	445.44	360.09	275.51	384.92	482.64	565.69
BUILDLEN STCK5	631.55	678.23	704.29	708.96	692.08	658.44
BUILDLEN STCK5	675.96	672.94	649.47	613.14	573.35	517.25
BUILDLEN STCK5	445.44	360.09	275.51	384.92	482.64	565.69
BUILDLEN STCK5	631.55	678.23	704.29	708.96	692.08	658.44
DUILDLEN SICKS	051.33	0/8.23	/04.29	/08.90	092.08	UJ 8.44

BUILDLEN STCK6	487.60	483.83	465.35	432.74	386.98	337.60
BUILDLEN STCK6	282.28	218.38	153.18	233.23	306.20	369.86
BUILDLEN STCK6	422.29	461.88	487.44	708.96	692.08	658.44
BUILDLEN STCK6	487.60	483.83	465.35	432.74	386.98	337.60
BUILDLEN STCK6	282.28	360.09	275.51	233.23	306.20	369.86
BUILDLEN STCK6	422.29	461.88	487.44	708.96	692.08	658.44
BeilBlingfeit		101100	107111	, 00.50	0,2.00	020111
BUILDLEN STCK7	675.96	483.83	465.35	432.74	386.98	337.60
BUILDLEN STCK7	282.28	218.38	153.18	233.23	306.20	369.86
BUILDLEN STCK7	422.29	461.88	487.44	498.19	692.08	658.44
BUILDLEN STCK7	675.96	483.83	465.35	432.74	386.98	337.60
BUILDLEN STCK7	282.28	218.38	275.51	233.23	306.20	369.86
BUILDLEN STCK7	422.29	461.88	487.44	498.19	692.08	658.44
BOILBLEIVSTEIL	122.27	101.00	107.11	170.17	0,2.00	050.11
BUILDLEN STCK8	675.96	483.83	465.35	432.74	386.98	337.60
BUILDLEN STCK8	282.28	218.38	153.18	233.23	306.20	369.86
BUILDLEN STCK8	422.29	461.88	487.44	498.19	493.80	658.44
BUILDLEN STCK8	675.96	483.83	465.35	432.74	386.98	337.60
BUILDLEN STCK8	282.28	218.38	275.51	384.92	306.20	369.86
BUILDLEN STCK8	422.29	461.88	487.44	498.19	493.80	658.44
BUILDLEN STCK8	422.29	401.00	407.44	490.19	493.00	030.44
BUILDLEN STCK9	675.96	672.94	649.47	613.14	386.98	337.60
BUILDLEN STCK9	282.28	218.38	153.18	233.23	306.20	369.86
BUILDLEN STCK9	422.29	461.88	487.44	498.19	493.80	658.44
BUILDLEN STCK9	675.96	672.94	649.47	613.14	386.98	337.60
BUILDLEN STCK9	282.28	218.38	275.51	384.92	482.64	565.69
BUILDLEN STCK9	422.29	461.88	487.44	498.19	493.80	658.44
BUILDI EN STCK 10	675 96	672 94	649 47	613 14	573 35	517.25
BUILDLEN STCK10	675.96 445.44	672.94 360.09	649.47 275.51	613.14 384 92	573.35 482.64	517.25 565.69
BUILDLEN STCK10	445.44	360.09	275.51	384.92	482.64	565.69
BUILDLEN STCK10 BUILDLEN STCK10	445.44 631.55	360.09 678.23	275.51 704.29	384.92 708.96	482.64 692.08	565.69 658.44
BUILDLEN STCK10 BUILDLEN STCK10 BUILDLEN STCK10	445.44 631.55 675.96	360.09 678.23 672.94	275.51 704.29 649.47	384.92 708.96 613.14	482.64 692.08 573.35	565.69 658.44 517.25
BUILDLEN STCK10 BUILDLEN STCK10 BUILDLEN STCK10 BUILDLEN STCK10	445.44 631.55 675.96 445.44	360.09 678.23 672.94 360.09	275.51 704.29 649.47 275.51	384.92 708.96 613.14 384.92	482.64 692.08 573.35 482.64	565.69 658.44 517.25 565.69
BUILDLEN STCK10 BUILDLEN STCK10 BUILDLEN STCK10	445.44 631.55 675.96	360.09 678.23 672.94	275.51 704.29 649.47	384.92 708.96 613.14	482.64 692.08 573.35	565.69 658.44 517.25
BUILDLEN STCK10 BUILDLEN STCK10 BUILDLEN STCK10 BUILDLEN STCK10 BUILDLEN STCK10	445.44 631.55 675.96 445.44 631.55	360.09 678.23 672.94 360.09 678.23	275.51 704.29 649.47 275.51 704.29	384.92 708.96 613.14 384.92 708.96	482.64 692.08 573.35 482.64 692.08	565.69 658.44 517.25 565.69 658.44
BUILDLEN STCK10 BUILDLEN STCK10 BUILDLEN STCK10 BUILDLEN STCK10 BUILDLEN STCK10 BUILDLEN STCK11	445.44 631.55 675.96 445.44 631.55 487.60	360.09 678.23 672.94 360.09 678.23 483.83	275.51 704.29 649.47 275.51 704.29 465.35	384.92 708.96 613.14 384.92 708.96 432.74	482.64 692.08 573.35 482.64 692.08 386.98	565.69 658.44 517.25 565.69 658.44 337.60
BUILDLEN STCK10 BUILDLEN STCK10 BUILDLEN STCK10 BUILDLEN STCK10 BUILDLEN STCK10 BUILDLEN STCK11	445.44 631.55 675.96 445.44 631.55 487.60 282.28	360.09 678.23 672.94 360.09 678.23 483.83 218.38	275.51 704.29 649.47 275.51 704.29 465.35 153.18	384.92 708.96 613.14 384.92 708.96 432.74 233.23	482.64 692.08 573.35 482.64 692.08 386.98 306.20	565.69 658.44 517.25 565.69 658.44 337.60 369.86
BUILDLEN STCK10 BUILDLEN STCK10 BUILDLEN STCK10 BUILDLEN STCK10 BUILDLEN STCK10 BUILDLEN STCK11 BUILDLEN STCK11 BUILDLEN STCK11	445.44 631.55 675.96 445.44 631.55 487.60 282.28 422.29	360.09 678.23 672.94 360.09 678.23 483.83 218.38 461.88	275.51 704.29 649.47 275.51 704.29 465.35 153.18 487.44	384.92 708.96 613.14 384.92 708.96 432.74 233.23 498.19	482.64 692.08 573.35 482.64 692.08 386.98 306.20 493.80	565.69 658.44 517.25 565.69 658.44 337.60 369.86 477.61
BUILDLEN STCK10 BUILDLEN STCK10 BUILDLEN STCK10 BUILDLEN STCK10 BUILDLEN STCK10 BUILDLEN STCK11 BUILDLEN STCK11 BUILDLEN STCK11 BUILDLEN STCK11 BUILDLEN STCK11	445.44 631.55 675.96 445.44 631.55 487.60 282.28 422.29 487.60	360.09 678.23 672.94 360.09 678.23 483.83 218.38 461.88 483.83	275.51 704.29 649.47 275.51 704.29 465.35 153.18 487.44 465.35	384.92 708.96 613.14 384.92 708.96 432.74 233.23 498.19 432.74	482.64 692.08 573.35 482.64 692.08 386.98 306.20 493.80 386.98	565.69 658.44 517.25 565.69 658.44 337.60 369.86 477.61 337.60
BUILDLEN STCK10 BUILDLEN STCK10 BUILDLEN STCK10 BUILDLEN STCK10 BUILDLEN STCK10 BUILDLEN STCK11 BUILDLEN STCK11 BUILDLEN STCK11 BUILDLEN STCK11 BUILDLEN STCK11 BUILDLEN STCK11	445.44 631.55 675.96 445.44 631.55 487.60 282.28 422.29 487.60 282.28	360.09 678.23 672.94 360.09 678.23 483.83 218.38 461.88 483.83 218.38	275.51 704.29 649.47 275.51 704.29 465.35 153.18 487.44 465.35 153.18	384.92 708.96 613.14 384.92 708.96 432.74 233.23 498.19 432.74 233.23	482.64 692.08 573.35 482.64 692.08 386.98 306.20 493.80 386.98 306.20	565.69 658.44 517.25 565.69 658.44 337.60 369.86 477.61 337.60 369.86
BUILDLEN STCK10 BUILDLEN STCK10 BUILDLEN STCK10 BUILDLEN STCK10 BUILDLEN STCK10 BUILDLEN STCK11 BUILDLEN STCK11 BUILDLEN STCK11 BUILDLEN STCK11 BUILDLEN STCK11	445.44 631.55 675.96 445.44 631.55 487.60 282.28 422.29 487.60	360.09 678.23 672.94 360.09 678.23 483.83 218.38 461.88 483.83	275.51 704.29 649.47 275.51 704.29 465.35 153.18 487.44 465.35	384.92 708.96 613.14 384.92 708.96 432.74 233.23 498.19 432.74	482.64 692.08 573.35 482.64 692.08 386.98 306.20 493.80 386.98	565.69 658.44 517.25 565.69 658.44 337.60 369.86 477.61 337.60
BUILDLEN STCK10 BUILDLEN STCK10 BUILDLEN STCK10 BUILDLEN STCK10 BUILDLEN STCK10 BUILDLEN STCK11	445.44 631.55 675.96 445.44 631.55 487.60 282.28 422.29 487.60 282.28 422.29	360.09 678.23 672.94 360.09 678.23 483.83 218.38 461.88 461.88	275.51 704.29 649.47 275.51 704.29 465.35 153.18 487.44 465.35 153.18 487.44	384.92 708.96 613.14 384.92 708.96 432.74 233.23 498.19 432.74 233.23 498.19	482.64 692.08 573.35 482.64 692.08 386.98 306.20 493.80 386.98 306.20 493.80	565.69 658.44 517.25 565.69 658.44 337.60 369.86 477.61 337.60 369.86 477.61
BUILDLEN STCK10 BUILDLEN STCK10 BUILDLEN STCK10 BUILDLEN STCK10 BUILDLEN STCK10 BUILDLEN STCK11	445.44 631.55 675.96 445.44 631.55 487.60 282.28 422.29 487.60 282.28 422.29	360.09 678.23 672.94 360.09 678.23 483.83 218.38 461.88 483.83 218.38 461.88	275.51 704.29 649.47 275.51 704.29 465.35 153.18 487.44 465.35 153.18 487.44	384.92 708.96 613.14 384.92 708.96 432.74 233.23 498.19 432.74 233.23 498.19	482.64 692.08 573.35 482.64 692.08 386.98 306.20 493.80 386.98 306.20 493.80	565.69 658.44 517.25 565.69 658.44 337.60 369.86 477.61 337.60 369.86 477.61
BUILDLEN STCK10 BUILDLEN STCK10 BUILDLEN STCK10 BUILDLEN STCK10 BUILDLEN STCK10 BUILDLEN STCK11	445.44 631.55 675.96 445.44 631.55 487.60 282.28 422.29 487.60 282.28 422.29 487.60 282.28	360.09 678.23 672.94 360.09 678.23 483.83 218.38 461.88 483.83 218.38 461.88	275.51 704.29 649.47 275.51 704.29 465.35 153.18 487.44 465.35 153.18 487.44	384.92 708.96 613.14 384.92 708.96 432.74 233.23 498.19 432.74 233.23 498.19	482.64 692.08 573.35 482.64 692.08 386.98 306.20 493.80 386.98 306.20 493.80	565.69 658.44 517.25 565.69 658.44 337.60 369.86 477.61 337.60 369.86 477.61
BUILDLEN STCK10 BUILDLEN STCK10 BUILDLEN STCK10 BUILDLEN STCK10 BUILDLEN STCK10 BUILDLEN STCK11 BUILDLEN STCK12 BUILDLEN STCK12 BUILDLEN STCK12	445.44 631.55 675.96 445.44 631.55 487.60 282.28 422.29 487.60 282.28 422.29 487.60 282.28 422.29	360.09 678.23 672.94 360.09 678.23 483.83 218.38 461.88 483.83 218.38 461.88	275.51 704.29 649.47 275.51 704.29 465.35 153.18 487.44 465.35 153.18 487.44 465.35	384.92 708.96 613.14 384.92 708.96 432.74 233.23 498.19 432.74 233.23 498.19	482.64 692.08 573.35 482.64 692.08 386.98 306.20 493.80 386.98 306.20 493.80	565.69 658.44 517.25 565.69 658.44 337.60 369.86 477.61 337.60 369.86 477.61
BUILDLEN STCK10 BUILDLEN STCK10 BUILDLEN STCK10 BUILDLEN STCK10 BUILDLEN STCK10 BUILDLEN STCK11 BUILDLEN STCK12 BUILDLEN STCK12 BUILDLEN STCK12 BUILDLEN STCK12	445.44 631.55 675.96 445.44 631.55 487.60 282.28 422.29 487.60 282.28 422.29 487.60 282.28 422.29 487.60	360.09 678.23 672.94 360.09 678.23 483.83 218.38 461.88 483.83 218.38 461.88 483.83 218.38 461.88	275.51 704.29 649.47 275.51 704.29 465.35 153.18 487.44 465.35 153.18 487.44 465.35	384.92 708.96 613.14 384.92 708.96 432.74 233.23 498.19 432.74 233.23 498.19 432.74 233.23	482.64 692.08 573.35 482.64 692.08 386.98 306.20 493.80 386.98 306.20 493.80 386.98 306.20	565.69 658.44 517.25 565.69 658.44 337.60 369.86 477.61 337.60 369.86 477.61 337.60 369.86 477.61 337.60
BUILDLEN STCK10 BUILDLEN STCK10 BUILDLEN STCK10 BUILDLEN STCK10 BUILDLEN STCK10 BUILDLEN STCK11 BUILDLEN STCK11 BUILDLEN STCK11 BUILDLEN STCK11 BUILDLEN STCK11 BUILDLEN STCK11 BUILDLEN STCK12 BUILDLEN STCK12 BUILDLEN STCK12 BUILDLEN STCK12 BUILDLEN STCK12 BUILDLEN STCK12	445.44 631.55 675.96 445.44 631.55 487.60 282.28 422.29 487.60 282.28 422.29 487.60 282.28 422.29 487.60 282.28	360.09 678.23 672.94 360.09 678.23 483.83 218.38 461.88 483.83 218.38 461.88 483.83 218.38 461.88	275.51 704.29 649.47 275.51 704.29 465.35 153.18 487.44 465.35 153.18 487.44 465.35 153.18	384.92 708.96 613.14 384.92 708.96 432.74 233.23 498.19 432.74 233.23 498.19 432.74 233.23 498.19	482.64 692.08 573.35 482.64 692.08 386.98 306.20 493.80 386.98 306.20 493.80 386.98 306.20 493.80 386.98 306.20	565.69 658.44 517.25 565.69 658.44 337.60 369.86 477.61 337.60 369.86 477.61 337.60 369.86 477.61 337.60 369.86
BUILDLEN STCK10 BUILDLEN STCK10 BUILDLEN STCK10 BUILDLEN STCK10 BUILDLEN STCK10 BUILDLEN STCK11 BUILDLEN STCK12 BUILDLEN STCK12 BUILDLEN STCK12 BUILDLEN STCK12	445.44 631.55 675.96 445.44 631.55 487.60 282.28 422.29 487.60 282.28 422.29 487.60 282.28 422.29 487.60	360.09 678.23 672.94 360.09 678.23 483.83 218.38 461.88 483.83 218.38 461.88 483.83 218.38 461.88	275.51 704.29 649.47 275.51 704.29 465.35 153.18 487.44 465.35 153.18 487.44 465.35	384.92 708.96 613.14 384.92 708.96 432.74 233.23 498.19 432.74 233.23 498.19 432.74 233.23	482.64 692.08 573.35 482.64 692.08 386.98 306.20 493.80 386.98 306.20 493.80 386.98 306.20	565.69 658.44 517.25 565.69 658.44 337.60 369.86 477.61 337.60 369.86 477.61 337.60 369.86 477.61 337.60
BUILDLEN STCK10 BUILDLEN STCK10 BUILDLEN STCK10 BUILDLEN STCK10 BUILDLEN STCK10 BUILDLEN STCK11 BUILDLEN STCK11 BUILDLEN STCK11 BUILDLEN STCK11 BUILDLEN STCK11 BUILDLEN STCK11 BUILDLEN STCK12	445.44 631.55 675.96 445.44 631.55 487.60 282.28 422.29 487.60 282.28 422.29 487.60 282.28 422.29 487.60 282.28 422.29	360.09 678.23 672.94 360.09 678.23 483.83 218.38 461.88 483.83 218.38 461.88 483.83 218.38 461.88	275.51 704.29 649.47 275.51 704.29 465.35 153.18 487.44 465.35 153.18 487.44 465.35 153.18 487.44 465.35	384.92 708.96 613.14 384.92 708.96 432.74 233.23 498.19 432.74 233.23 498.19 432.74 233.23 498.19	482.64 692.08 573.35 482.64 692.08 386.98 306.20 493.80 386.98 306.20 493.80 386.98 306.20 493.80	565.69 658.44 517.25 565.69 658.44 337.60 369.86 477.61 337.60 369.86 477.61 337.60 369.86 477.61 337.60 369.86 477.61
BUILDLEN STCK10 BUILDLEN STCK10 BUILDLEN STCK10 BUILDLEN STCK10 BUILDLEN STCK10 BUILDLEN STCK11 BUILDLEN STCK11 BUILDLEN STCK11 BUILDLEN STCK11 BUILDLEN STCK11 BUILDLEN STCK11 BUILDLEN STCK12	445.44 631.55 675.96 445.44 631.55 487.60 282.28 422.29 487.60 282.28 422.29 487.60 282.28 422.29 487.60 282.28 422.29	360.09 678.23 672.94 360.09 678.23 483.83 218.38 461.88 483.83 218.38 461.88 483.83 218.38 461.88 483.83 218.38 461.88	275.51 704.29 649.47 275.51 704.29 465.35 153.18 487.44 465.35 153.18 487.44 465.35 153.18 487.44 465.35	384.92 708.96 613.14 384.92 708.96 432.74 233.23 498.19 432.74 233.23 498.19 432.74 233.23 498.19 432.74 233.23 498.19	482.64 692.08 573.35 482.64 692.08 386.98 306.20 493.80 386.98 306.20 493.80 386.98 306.20 493.80 386.98 306.20	565.69 658.44 517.25 565.69 658.44 337.60 369.86 477.61 337.60 369.86 477.61 337.60 369.86 477.61 337.60 369.86 477.61
BUILDLEN STCK10 BUILDLEN STCK10 BUILDLEN STCK10 BUILDLEN STCK10 BUILDLEN STCK10 BUILDLEN STCK11 BUILDLEN STCK11 BUILDLEN STCK11 BUILDLEN STCK11 BUILDLEN STCK11 BUILDLEN STCK11 BUILDLEN STCK12 BUILDLEN STCK13 BUILDLEN STCK13	445.44 631.55 675.96 445.44 631.55 487.60 282.28 422.29 487.60 282.28 422.29 487.60 282.28 422.29 487.60 282.28 422.29	360.09 678.23 672.94 360.09 678.23 483.83 218.38 461.88 483.83 218.38 461.88 483.83 218.38 461.88 483.83 218.38 461.88	275.51 704.29 649.47 275.51 704.29 465.35 153.18 487.44 465.35 153.18 487.44 465.35 153.18 487.44 465.35 153.18 487.44	384.92 708.96 613.14 384.92 708.96 432.74 233.23 498.19 432.74 233.23 498.19 432.74 233.23 498.19 432.74 233.23 498.19	482.64 692.08 573.35 482.64 692.08 386.98 306.20 493.80 386.98 306.20 493.80 386.98 306.20 493.80 386.98 306.20	565.69 658.44 517.25 565.69 658.44 337.60 369.86 477.61 337.60 369.86 477.61 337.60 369.86 477.61 337.60 369.86 477.61
BUILDLEN STCK10 BUILDLEN STCK10 BUILDLEN STCK10 BUILDLEN STCK10 BUILDLEN STCK10 BUILDLEN STCK11 BUILDLEN STCK11 BUILDLEN STCK11 BUILDLEN STCK11 BUILDLEN STCK11 BUILDLEN STCK11 BUILDLEN STCK12 BUILDLEN STCK13 BUILDLEN STCK13 BUILDLEN STCK13 BUILDLEN STCK13	445.44 631.55 675.96 445.44 631.55 487.60 282.28 422.29 487.60 282.28 422.29 487.60 282.28 422.29 487.60 282.28 422.29 487.60 282.28 422.29	360.09 678.23 672.94 360.09 678.23 483.83 218.38 461.88 483.83 218.38 461.88 483.83 218.38 461.88 483.83 218.38 461.88	275.51 704.29 649.47 275.51 704.29 465.35 153.18 487.44 465.35 153.18 487.44 465.35 153.18 487.44 465.35 153.18 487.44	384.92 708.96 613.14 384.92 708.96 432.74 233.23 498.19 432.74 233.23 498.19 432.74 233.23 498.19 432.74 233.23 498.19	482.64 692.08 573.35 482.64 692.08 386.98 306.20 493.80 386.98 306.20 493.80 386.98 306.20 493.80 386.98 306.20 493.80	565.69 658.44 517.25 565.69 658.44 337.60 369.86 477.61 337.60 369.86 477.61 337.60 369.86 477.61 337.60 369.86 477.61
BUILDLEN STCK10 BUILDLEN STCK10 BUILDLEN STCK10 BUILDLEN STCK10 BUILDLEN STCK10 BUILDLEN STCK10 BUILDLEN STCK11 BUILDLEN STCK11 BUILDLEN STCK11 BUILDLEN STCK11 BUILDLEN STCK11 BUILDLEN STCK11 BUILDLEN STCK12 BUILDLEN STCK13 BUILDLEN STCK13 BUILDLEN STCK13 BUILDLEN STCK13 BUILDLEN STCK13	445.44 631.55 675.96 445.44 631.55 487.60 282.28 422.29 487.60 282.28 422.29 487.60 282.28 422.29 487.60 282.28 422.29 487.60 282.28 422.29	360.09 678.23 672.94 360.09 678.23 483.83 218.38 461.88 483.83 218.38 461.88 483.83 218.38 461.88 483.83 218.38 461.88	275.51 704.29 649.47 275.51 704.29 465.35 153.18 487.44 465.35 153.18 487.44 465.35 153.18 487.44 465.35 153.18 487.44 465.35	384.92 708.96 613.14 384.92 708.96 432.74 233.23 498.19 432.74 233.23 498.19 432.74 233.23 498.19 432.74 233.23 498.19 432.74 233.23 498.19	482.64 692.08 573.35 482.64 692.08 386.98 306.20 493.80 386.98 306.20 493.80 386.98 306.20 493.80 386.98 306.20 493.80 386.98	565.69 658.44 517.25 565.69 658.44 337.60 369.86 477.61 337.60 369.86 477.61 337.60 369.86 477.61 337.60 369.86 477.61 337.60 369.86 477.61
BUILDLEN STCK10 BUILDLEN STCK10 BUILDLEN STCK10 BUILDLEN STCK10 BUILDLEN STCK10 BUILDLEN STCK11 BUILDLEN STCK11 BUILDLEN STCK11 BUILDLEN STCK11 BUILDLEN STCK11 BUILDLEN STCK11 BUILDLEN STCK12 BUILDLEN STCK13 BUILDLEN STCK13 BUILDLEN STCK13 BUILDLEN STCK13	445.44 631.55 675.96 445.44 631.55 487.60 282.28 422.29 487.60 282.28 422.29 487.60 282.28 422.29 487.60 282.28 422.29 487.60 282.28 422.29	360.09 678.23 672.94 360.09 678.23 483.83 218.38 461.88 483.83 218.38 461.88 483.83 218.38 461.88 483.83 218.38 461.88	275.51 704.29 649.47 275.51 704.29 465.35 153.18 487.44 465.35 153.18 487.44 465.35 153.18 487.44 465.35 153.18 487.44	384.92 708.96 613.14 384.92 708.96 432.74 233.23 498.19 432.74 233.23 498.19 432.74 233.23 498.19 432.74 233.23 498.19	482.64 692.08 573.35 482.64 692.08 386.98 306.20 493.80 386.98 306.20 493.80 386.98 306.20 493.80 386.98 306.20 493.80	565.69 658.44 517.25 565.69 658.44 337.60 369.86 477.61 337.60 369.86 477.61 337.60 369.86 477.61 337.60 369.86 477.61

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BUILDLEN STCK14
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RE FINISHED
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** AERMOD Meteorology Pathway
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 PROFFILE AERMET\Tracy 2004-2008.PFL
 SURFDATA 99008 2004 Tracy, CA
 UAIRDATA 66666 2004
 PROFBASE 158.0 METERS
ME FINISHED
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** AERMOD Output Pathway
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 PLOTFILE 1 STCK10 1ST "TRACY COSTCO V3.AD\01H1G004.PLT" 34
 PLOTFILE 1 STCK11 1ST "TRACY COSTCO V3.AD\01H1G005.PLT" 35
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A Total of
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A Total of
             15 Warning Message(s)
A Total of
              0 Informational Message(s)
  ****** FATAL ERROR MESSAGES ******
       *** NONE ***
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****** WARNING MESSAGES ******
                                                                             VS
SO W320
         2061
                  PPARM: Input Parameter May Be Out-of-Range for Parameter
                   PPARM: Input Parameter May Be Out-of-Range for Parameter
                                                                             VS
SO W320 2062
                   PPARM: Input Parameter May Be Out-of-Range for Parameter
SO W320 2063
                                                                             VS
SO W320 2064
                   PPARM: Input Parameter May Be Out-of-Range for Parameter
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                   PPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320 2065
                   PPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320 2066
                   PPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320 2067
SO W320 2068
                   PPARM: Input Parameter May Be Out-of-Range for Parameter
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SO W320 2069
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SO W320 2070
                   PPARM: Input Parameter May Be Out-of-Range for Parameter
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                   PPARM: Input Parameter May Be Out-of-Range for Parameter
SO W320 2071
                                                                             VS
SO W320 2072
                   PPARM: Input Parameter May Be Out-of-Range for Parameter
                                                                             VS
SO W320 2073
                  PPARM: Input Parameter May Be Out-of-Range for Parameter
                                                                             VS
SO W320 2074
                   PPARM: Input Parameter May Be Out-of-Range for Parameter
                                                                             VS
ME W187 3298
                  MEOPEN: ADJ U* Option for Stable Low Winds used in AERMET
***********
*** SETUP Finishes Successfully ***
************
  *** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-
977GSBU)\Documents\HRA\Tracy C ***
                                       12/13/23
*** AERMET - VERSION 18081 *** ***
                                                                                 15:02:10
                                                             PAGE 1
*** MODELOPTs: CONC ELEV RURAL ADJ U*
                      ***
                            MODEL SETUP OPTIONS SUMMARY
**Model Is Setup For Calculation of Average CONCentration Values.
 -- DEPOSITION LOGIC --
**NO GAS DEPOSITION Data Provided.
**NO PARTICLE DEPOSITION Data Provided.
**Model Uses NO DRY DEPLETION. DRYDPLT = F
**Model Uses NO WET DEPLETION. WETDPLT = F
**Model Uses RURAL Dispersion Only.
**Model Allows User-Specified Options:
    1. Stack-tip Downwash.
    2. Model Accounts for ELEVated Terrain Effects.
    3. Use Calms Processing Routine.
    4. Use Missing Data Processing Routine.
    5. No Exponential Decay.
**Other Options Specified:
    ADJ U* - Use ADJ U* option for SBL in AERMET
    CCVR Sub - Meteorological data includes CCVR substitutions
    TEMP Sub - Meteorological data includes TEMP substitutions
```

**Model Assumes No FLAGPOLE Receptor Heights.

```
**The User Specified a Pollutant Type of: OTHER
**Model Calculates 1 Short Term Average(s) of: 1-HR
  and Calculates PERIOD Averages
**This Run Includes: 1231 Source(s);
                                     17 Source Group(s); and
                                                            426 Receptor(s)
        with:
              14 POINT(s), including
              0 POINTCAP(s) and
                                  0 POINTHOR(s)
         and: 1217 VOLUME source(s)
               0 AREA type source(s)
         and:
               0 LINE source(s)
         and:
         and:
               0 RLINE/RLINEXT source(s)
         and:
               0 OPENPIT source(s)
               0 BUOYANT LINE source(s) with
         and:
                                                0 line(s)
**Model Set To Continue RUNning After the Setup Testing.
**The AERMET Input Meteorological Data Version Date: 18081
**Output Options Selected:
     Model Outputs Tables of PERIOD Averages by Receptor
     Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE Keyword)
     Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)
     Model Outputs Separate Summary File of High Ranked Values (SUMMFILE Keyword)
**NOTE: The Following Flags May Appear Following CONC Values: c for Calm Hours
                                  m for Missing Hours
                                  b for Both Calm and Missing Hours
**Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) = 158.00; Decay Coef. = 0.000; Rot. Angle =
                                                                                                   0.0
         Emission Units = GRAMS/SEC
                                                     ; Emission Rate Unit Factor = 0.10000E+07
         Output Units = MICROGRAMS/M**3
**Approximate Storage Requirements of Model =
                                             6.1 MB of RAM.
**Input Runstream File:
                          aermod.inp
**Output Print File:
                        aermod.out
**Detailed Error/Message File: Tracy Costco V3.err
**File for Summary of Results: Tracy Costco V3.sum
  *** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-
977GSBU)\Documents\HRA\Tracy C ***
                                        12/13/23
*** AERMET - VERSION 18081 *** ***
                                                                           ***
                                                                                   15:02:10
                                                              PAGE 2
*** MODELOPTs: CONC ELEV RURAL ADJ U*
                          *** POINT SOURCE DATA ***
       NUMBER EMISSION RATE
                                                    STACK STACK STACK BLDG URBAN
                                           BASE
CAP/ EMIS RATE
                                          Y
                                              ELEV. HEIGHT TEMP. EXIT VEL. DIAMETER EXISTS
 SOURCE
             PART. (GRAMS/SEC) X
SOURCE HOR SCALAR
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(METERS) (METERS) (METERS) (DEG.K) (M/SEC) (METERS)

ID

CATS.

L0003973

L0003974

STCK1 0 0.10000E+01 631795.6 4175800.4 49.0 3.84 366.00 57.71 0.10 YES NO NO STCK2 0 0.10000E+01 631795.6 4175700.4 50.0 366.00 57.71 YES 3.84 0.10 NO NO STCK3 0 0.10000E+01 631795.6 4175600.4 50.9 3.84 366.00 57.71 0.10 YES NO NO 0 0.10000E+01 631795.6 4175500.4 51.6 3.84 366.00 57.71 YES NO NO STCK4 0.10 0 0.10000E+01 631795.6 4175400.4 52.4 3.84 366.00 YES NO NO STCK5 57.71 0.10 STCK6 0 0.10000E+01 631520.6 4175800.4 52.0 3.84 366.00 57.71 0.10 YES NO NO STCK7 0 0.10000E+01 631520.6 4175700.4 53.1 3.84 366.00 57.71 0.10 YES NO NO 0 0.10000E+01 631520.6 4175600.4 54.1 3.84 366.00 57.71 STCK8 0.10 YES NO NO STCK9 0 0.10000E+01 631520.6 4175500.4 55.0 3.84 366.00 57.71 0.10 YES NO NO STCK10 0 0.10000E+01 631520.6 4175400.4 55.8 3.84 366.00 57.71 0.10 YES NO NO STCK11 0 0.10000E+01 631460.6 4175700.4 53.8 3.84 366.00 57.71 0.10 YES NO NO STCK12 0 0.10000E+01 631460.6 4175600.4 54.9 3.84 366.00 57.71 0.10 YES NO NO STCK13 0 0.10000E+01 631310.6 4175700.4 55.6 3.84 366.00 57.71 YES NO 0.10 NO STCK14 0 0.10000E+01 631310.6 4175600.4 56.7 3.84 366.00 57.71 0.10 YES NO NO *** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-977GSBU)\Documents\HRA\Tracy C *** 12/13/23 *** AERMET - VERSION 18081 *** ***

15:02:10

PAGE 3

*** MODELOPTS: CONC ELEV RURAL ADJ U*

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0 0.32051E-02 631371.6 4175991.3

## *** VOLUME SOURCE DATA ***

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977GSBU)\Documents\HRA\Tracy C ***
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*** AERMET - VERSION 18081 *** ***
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                                                                PAGE 4
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L0004014

L0004015

L0004016

## *** VOLUME SOURCE DATA ***

NUMBER EMISSION RATE BASE RELEASE INIT. INIT. URBAN EMISSION RATE Y ELEV. HEIGHT **SOURCE** PART. (GRAMS/SEC) X SYSZSOURCE SCALAR VARY ID (METERS) (METERS) (METERS) (METERS) (METERS) CATS. 0 0.32051E-02 631313.1 4175991.7 L0003990 52.4 4.00 1.70 3.16 NO L0003991 0 0.32051E-02 631309.5 4175991.7 52.4 1.70 NO 4.00 3.16 L0003992 0 0.32051E-02 631305.8 4175991.7 52.5 4.00 1.70 3.16 NO 0 0.32051E-02 631302.1 4175991.7 L0003993 52.5 4.00 1.70 3.16 NO 0 0.32051E-02 631298.5 4175991.8 52.5 L0003994 4.00 1.70 3.16 NO 0 0.32051E-02 631294.8 4175991.8 52.6 L0003995 4.00 1.70 3.16 NO L0003996 0 0.32051E-02 631291.2 4175991.8 52.6 4.00 1.70 3.16 NO 0 0.32051E-02 631287.5 4175991.8 52.7 L0003997 4.00 1.70 3.16 NO 0 0.32051E-02 631283.8 4175991.8 52.7 L0003998 4.00 1.70 3.16 NO L0003999 0 0.32051E-02 631280.2 4175991.9 52.8 4.00 1.70 3.16 NO 0 0.32051E-02 631276.5 4175991.9 52.8 4.00 1.70 3.16 L0004000 NO 0 0.32051E-02 631272.9 4175991.9 52.8 L0004001 4.00 1.70 3.16 NO L0004002 0 0.32051E-02 631269.2 4175991.9 52.8 4.00 1.70 3.16 NO L0004003 0 0.32051E-02 631265.6 4175992.0 52.8 4.00 1.70 3.16 NO L0004004 0 0.32051E-02 631261.9 4175992.0 52.9 4.00 1.70 3.16 NO 0 0.32051E-02 631258.2 4175992.0 52.9 L0004005 4.00 1.70 3.16 NO L0004006 0 0.32051E-02 631254.6 4175992.0 52.9 4.00 1.70 3.16 NO L0004007 0 0.32051E-02 631250.9 4175992.1 52.9 4.00 1.70 3.16 NO L0004008 0 0.32051E-02 631247.3 4175992.1 52.9 4.00 1.70 3.16 NO 0 0.32051E-02 631243.6 4175992.1 52.9 L0004009 4.00 1.70 3.16 NO 0 0.32051E-02 631240.0 4175992.1 52.9 1.70 3.16 L0004010 4.00 NO 0 0.32051E-02 631236.3 4175992.2 52.9 1.70 3.16 L0004011 4.00 NO 0 0.32051E-02 631232.6 4175992.2 52.9 L0004012 4.00 1.70 3.16 NO

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  *** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-
977GSBU)\Documents\HRA\Tracy C ***
                                         12/13/23
*** AERMET - VERSION 18081 *** ***
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                                                                                      15:02:10
                                                                 PAGE 5
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# *** VOLUME SOURCE DATA ***

NUMBER EMISSION RATE BASE RELEASE INIT. INIT. URBAN EMISSION RATE **SOURCE** PART. (GRAMS/SEC) X Y ELEV. HEIGHT SYSZSOURCE SCALAR VARY ID CATS. (METERS) (METERS) (METERS) (METERS) (METERS) BY L0004030 0 0.32051E-02 631166.8 4175992.6 53.2 4.00 1.70 3.16 NO L0004031 0 0.32051E-02 631163.2 4175992.6 53.2 4.00 1.70 3.16 NO L0004032 0 0.32051E-02 631159.5 4175992.6 53.3 4.00 1.70 3.16 NO L0004033 0 0.32051E-02 631155.8 4175992.7 53.3 4.00 1.70 3.16 NO 0 0.32051E-02 631152.2 4175992.7 53.3 1.70 3.16 L0004034 4.00 NO 0 0.32051E-02 631148.5 4175992.7 53.3 L0004035 4.00 1.70 3.16 NO 0 0.32051E-02 631144.9 4175992.7 53.3 4.00 1.70 3.16 NO L0004036 0 0.32051E-02 631141.2 4175992.8 53.3 4.00 1.70 3.16 L0004037 NO 0 0.32051E-02 631137.5 4175992.8 53.4 4.00 1.70 3.16 NO L0004038 0 0.32051E-02 631133.9 4175992.8 53.4 L0004039 4.00 1.70 3.16 NO L0004040 0 0.32051E-02 631130.2 4175992.8 53.4 4.00 1.70 3.16 NO L0004041 0 0.32051E-02 631126.6 4175992.9 53.4 4.00 1.70 3.16 NO 0 0.32051E-02 631122.9 4175992.9 L0004042 53.4 4.00 1.70 3.16 NO 0 0.32051E-02 631119.3 4175992.9 53.4 L0004043 4.00 1.70 3.16 NO L0004044 0 0.32051E-02 631115.6 4175992.9 53.4 4.00 1.70 3.16 NO L0004045 0 0.32051E-02 631111.9 4175992.9 53.4 4.00 1.70 3.16 NO L0004046 0 0.32051E-02 631108.3 4175993.0 53.4 4.00 1.70 3.16 NO 0 0.32051E-02 631104.6 4175993.0 53.5 1.70 L0004047 4.00 3.16 NO 0 0.32051E-02 631101.0 4175993.0 53.5 1.70 3.16 L0004048 4.00 NO 0 0.32051E-02 631097.3 4175993.0 53.5 4.00 1.70 3.16 L0004049 NO 0 0.32051E-02 631093.7 4175993.1 53.5 L0004050 4.00 1.70 3.16 NO 0 0.32051E-02 631090.0 4175993.1 53.6 1.70 L0004051 4.00 3.16 NO 0 0.32051E-02 631086.3 4175993.1 L0004052 53.6 4.00 1.70 3.16 NO 0 0.32051E-02 631082.7 4175993.1 53.6 4.00 1.70 3.16 NO L0004053 0 0.32051E-02 631079.0 4175993.2 53.7 L0004054 4.00 1.70 3.16 NO L0004055 0 0.32051E-02 631075.4 4175993.2 53.8 4.00 1.70 3.16 NO L0004056 0 0.32051E-02 631071.7 4175993.2 54.0 4.00 1.70 3.16 NO L0004057 0 0.32051E-02 631068.1 4175993.2 54.1 4.00 1.70 3.16 NO 0 0.32051E-02 631064.4 4175993.3 54.2 1.70 L0004058 4.00 3.16 NO

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## *** VOLUME SOURCE DATA ***

NUMBER EMISSION RATE

SOURCE PART. (GRAMS/SEC) X Y ELEV. HEIGHT SY SZ SOURCE SCALAR VARY ID CATS. (METERS) (METERS) (METERS) (METERS) (METERS) (METERS) BY

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977GSBU)\Documents\HRA\Tracy C ***
                                         12/13/23
*** AERMET - VERSION 18081 *** ***
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#### *** VOLUME SOURCE DATA ***

NUMBER EMISSION RATE BASE RELEASE INIT. INIT. URBAN EMISSION RATE **SOURCE** PART. (GRAMS/SEC) X Y ELEV. HEIGHT SYSZSOURCE SCALAR VARY ID CATS. (METERS) (METERS) (METERS) (METERS) (METERS) BY ______ L0004110 0 0.32051E-02 630874.2 4175994.5 58.2 4.00 1.70 3.16 NO 0 0.32051E-02 630870.5 4175994.5 L0004111 58.3 4.00 1.70 3.16 NO 0 0.32051E-02 630866.9 4175994.5 L0004112 58.4 4.00 1.70 3.16 NO L0004113 0 0.32051E-02 630863.2 4175994.5 58.5 4.00 1.70 NO 3.16 L0004114 0 0.32051E-02 630859.6 4175994.6 58.6 4.00 1.70 3.16 NO L0004115 0 0.32051E-02 630855.9 4175994.6 58.7 4.00 1.70 3.16 NO L0004116 0 0.32051E-02 630852.3 4175994.6 58.8 4.00 1.70 3.16 NO L0004117 0 0.32051E-02 630848.6 4175994.6 58.9 4.00 1.70 3.16 NO 0 0.32051E-02 630844.9 4175994.7 59.0 1.70 3.16 L0004118 4.00 NO 0 0.32051E-02 630841.3 4175994.7 59.1 L0004119 4.00 1.70 3.16 NO 0 0.32051E-02 630837.6 4175994.7 59.2 4.00 1.70 3.16 NO L0004120 0 0.32051E-02 630834.0 4175994.7 59.2 4.00 1.70 3.16 L0004121 NO 0 0.32051E-02 630830.3 4175994.8 59.3 4.00 1.70 3.16 NO L0004122 0 0.32051E-02 630826.7 4175994.8 59.4 L0004123 4.00 1.70 3.16 NO L0004124 0 0.32051E-02 630823.0 4175994.8 59.5 4.00 1.70 3.16 NO L0004125 0 0.32051E-02 630819.3 4175994.8 59.5 4.00 1.70 3.16 NO 0 0.32051E-02 630815.7 4175994.8 L0004126 59.6 4.00 1.70 3.16 NO 0 0.32051E-02 630812.0 4175994.9 59.7 L0004127 4.00 1.70 3.16 NO L0004128 0 0.32051E-02 630808.4 4175994.9 59.8 4.00 1.70 3.16 NO L0004129 0 0.32051E-02 630804.7 4175994.9 59.8 4.00 1.70 3.16 NO L0004130 0 0.32051E-02 630801.1 4175994.9 59.9 4.00 1.70 3.16 NO 0 0.32051E-02 630797.4 4175995.0 L0004131 60.0 4.00 1.70 3.16 NO 0 0.32051E-02 630793.7 4175995.0 60.0 1.70 3.16 L0004132 4.00 NO 0 0.32051E-02 630790.1 4175995.0 60.1 1.70 3.16 L0004133 4.00 NO 0 0.32051E-02 630786.4 4175995.0 L0004134 60.2 4.00 1.70 3.16 NO 0 0.32051E-02 630782.8 4175995.1 L0004135 60.5 4.00 1.70 3.16 NO 0 0.32051E-02 630779.1 4175995.1 L0004136 60.7 4.00 1.70 3.16 NO 0 0.32051E-02 630775.5 4175995.1 61.0 4.00 1.70 3.16 NO L0004137 0 0.32051E-02 630771.8 4175995.1 L0004138 61.2 4.00 1.70 3.16 NO L0004139 0 0.32051E-02 630768.1 4175995.1 61.4 4.00 1.70 3.16 NO L0004140 0 0.32051E-02 630764.5 4175995.2 61.7 4.00 1.70 3.16 NO L0004141 0 0.32051E-02 630760.8 4175995.2 61.7 4.00 1.70 3.16 NO 0 0.32051E-02 630757.2 4175995.2 L0004142 61.7 4.00 1.70 3.16 NO

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# *** VOLUME SOURCE DATA ***

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SOURCE PART. (GRAMS/SEC) X Y ELEV. HEIGHT SY SZ SOURCE SCALAR VARY
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                                        12/13/23
*** AERMET - VERSION 18081 *** ***
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#### *** VOLUME SOURCE DATA ***

NUMBER EMISSION RATE BASE RELEASE INIT. INIT. URBAN EMISSION RATE Y ELEV. HEIGHT **SOURCE** PART. (GRAMS/SEC) X SYSZ SOURCE SCALAR VARY ID (METERS) (METERS) (METERS) (METERS) (METERS) CATS. L0004190 0 0.32051E-02 630581.6 4175996.3 62.1 4.00 1.70 3.16 NO 4.00 L0004191 0 0.32051E-02 630577.9 4175996.4 62.1 1.70 3.16 NO 0 0.32051E-02 630574.3 4175996.4 62.0 L0004192 4.00 1.70 3.16 NO 0 0.32051E-02 630570.6 4175996.4 L0004193 62.0 4.00 1.70 3.16 NO L0004194 0 0.32051E-02 630567.0 4175996.4 61.9 4.00 1.70 3.16 NO L0004195 0 0.32051E-02 630563.3 4175996.5 61.9 4.00 1.70 3.16 NO 0 0.32051E-02 630559.7 4175996.5 L0004196 61.8 4.00 1.70 3.16 NO L0004197 0 0.32051E-02 630556.0 4175996.5 61.8 4.00 1.70 NO 3.16 L0004198 0 0.32051E-02 630552.3 4175996.5 61.8 4.00 1.70 3.16 NO L0004199 0 0.32051E-02 630548.7 4175996.6 61.7 4.00 1.70 3.16 NO L0004200 0 0.32051E-02 630545.0 4175996.6 61.7 4.00 1.70 3.16 NO L0004201 0 0.32051E-02 630541.4 4175996.6 61.6 4.00 1.70 3.16 NO 0 0.32051E-02 630537.7 4175996.6 1.70 3.16 L0004202 61.6 4.00 NO 0 0.32051E-02 630534.1 4175996.6 L0004203 61.5 4.00 1.70 3.16 NO 0 0.32051E-02 630530.4 4175996.7 61.5 4.00 1.70 3.16 NO L0004204 0 0.32051E-02 630526.7 4175996.7 61.5 1.70 3.16 L0004205 4.00 NO 0 0.32051E-02 630523.1 4175996.7 4.00 1.70 3.16 NO L0004206 61.4 0 0.32051E-02 630519.4 4175996.7 L0004207 61.4 4.00 1.70 3.16 NO L0004208 0 0.32051E-02 630515.8 4175996.8 61.4 4.00 1.70 3.16 NO L0004209 0 0.32051E-02 630512.1 4175996.8 61.4 4.00 1.70 3.16 NO L0004210 0 0.32051E-02 630508.5 4175996.8 61.4 4.00 1.70 3.16 NO 0 0.32051E-02 630504.8 4175996.8 L0004211 61.3 4.00 1.70 3.16 NO 4.00 L0004212 0 0.32051E-02 630501.1 4175996.9 61.3 1.70 3.16 NO L0004213 0 0.32051E-02 630497.5 4175996.9 61.3 4.00 1.70 3.16 NO L0004214 0 0.32051E-02 630493.8 4175996.9 61.3 4.00 1.70 3.16 NO 0 0.32051E-02 630490.2 4175996.9 L0004215 61.3 4.00 1.70 3.16 NO 0 0.32051E-02 630486.5 4175996.9 61.3 1.70 3.16 L0004216 4.00 NO 0 0.32051E-02 630482.9 4175997.0 61.4 1.70 3.16 L0004217 4.00 NO 0 0.32051E-02 630479.2 4175997.0 61.4 4.00 1.70 3.16 L0004218 NO 0 0.32051E-02 630475.5 4175997.0 L0004219 61.4 4.00 1.70 3.16 NO 0 0.32051E-02 630471.9 4175997.0 L0004220 61.4 4.00 1.70 3.16 NO L0004221 0 0.32051E-02 630468.2 4175997.1 61.4 4.00 1.70 3.16 NO 0 0.32051E-02 630464.6 4175997.1 L0004222 61.5 4.00 1.70 3.16 NO L0004223 0 0.32051E-02 630460.9 4175997.1 61.5 4.00 1.70 3.16 NO L0004224 0 0.32051E-02 630457.2 4175997.1 61.5 4.00 1.70 3.16 NO L0004225 0 0.32051E-02 630453.6 4175997.2 61.5 4.00 1.70 3.16 NO

4.00

1.70

3.16

NO

61.6

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977GSBU)\Documents\HRA\Tracy C ***
                                       12/13/23
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*** AERMET - VERSION 18081 *** ***
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*** MODELOPTs: CONC ELEV RURAL ADJ_U*

#### *** VOLUME SOURCE DATA ***

NUMBER EMISSION RATE

BASE RELEASE INIT. INIT. URBAN EMISSION RATE

SOURCE PART. (GRAMS/SEC) X Y ELEV. HEIGHT SY SZ SOURCE SCALAR VARY

ID CATS. (METERS) (METERS) (METERS) (METERS) (METERS) BY

4.00 L0004230 0 0.32051E-02 630435.3 4175997.3 1.70 3.16 NO 61.6 L0004231 0 0.32051E-02 630431.6 4175997.3 61.7 4.00 1.70 3.16 NO 0 0.32051E-02 630428.0 4175997.3 L0004232 61.7 4.00 1.70 3.16 NO 0 0.32051E-02 630424.3 4175997.3 61.7 1.70 3.16 L0004233 4.00 NO 0 0.32051E-02 630420.7 4175997.4 L0004234 61.7 4.00 1.70 3.16 NO L0004235 0 0.32051E-02 630417.0 4175997.4 61.8 4.00 1.70 3.16 NO 0 0.32051E-02 630413.4 4175997.4 61.8 4.00 1.70 3.16 L0004236 NO L0004237 0 0.32051E-02 630409.7 4175997.4 61.8 4.00 1.70 3.16 NO 0 0.32051E-02 630406.0 4175997.5 L0004238 61.8 4.00 1.70 3.16 NO L0004239 0 0.32051E-02 630402.4 4175997.5 61.8 4.00 1.70 3.16 NO L0004240 0 0.32051E-02 630398.7 4175997.5 61.8 4.00 1.70 3.16 NO L0004241 0 0.32051E-02 630395.1 4175997.5 61.9 4.00 1.70 3.16 NO 0 0.32051E-02 630391.4 4175997.6 L0004242 61.9 4.00 1.70 3.16 NO L0004243 0 0.32051E-02 630387.8 4175997.6 4.00 1.70 61.9 3.16 NO L0004244 0 0.32051E-02 630384.1 4175997.6 61.9 4.00 1.70 3.16 NO L0004245 0 0.32051E-02 630380.4 4175997.6 62.0 4.00 1.70 3.16 NO L0004246 0 0.32051E-02 630376.8 4175997.7 62.0 4.00 1.70 3.16 NO 0 0.32051E-02 630373.1 4175997.7 62.0 L0004247 4.00 1.70 3.16 NO 0 0.32051E-02 630369.5 4175997.7 L0004248 62.0 4.00 1.70 3.16 NO 0 0.32051E-02 630365.8 4175997.7 62.1 L0004249 1.70 3.16 4.00 NO 62.1 L0004250 0 0.32051E-02 630362.2 4175997.7 4.00 1.70 3.16 NO 0 0.32051E-02 630358.5 4175997.8 62.1 4.00 1.70 3.16 L0004251 NO 0 0.32051E-02 630354.8 4175997.8 62.1 1.70 3.16 L0004252 4.00 NO 0 0.32051E-02 630351.2 4175997.8 62.2 L0004253 4.00 1.70 3.16 NO 0 0.32051E-02 630347.5 4175997.8 L0004254 62.2 4.00 1.70 3.16 NO L0004255 0 0.32051E-02 630343.9 4175997.9 62.2 4.00 1.70 3.16 NO L0004256 0 0.32051E-02 630340.2 4175997.9 62.3 4.00 1.70 3.16 NO 0 0.32051E-02 630336.5 4175997.9 62.3 L0004257 4.00 1.70 3.16 NO 3.16 L0004258 0 0.32051E-02 630332.9 4175997.9 62.3 4.00 1.70 NO L0004259 0 0.32051E-02 630329.2 4175998.0 62.4 4.00 1.70 3.16 NO L0004260 0 0.32051E-02 630325.6 4175998.0 62.4 4.00 1.70 3.16 NO L0004261 0 0.32051E-02 630321.9 4175998.0 62.5 4.00 1.70 3.16 NO 0 0.24038E-02 630319.7 4175984.4 62.4 1.70 L0004262 4.00 3.16 NO 0 0.24038E-02 630323.3 4175984.4 62.4 1.70 3.16 L0004263 4.00 NO 0 0.24038E-02 630327.0 4175984.5 62.3 L0004264 4.00 1.70 3.16 NO 0 0.24038E-02 630330.6 4175984.5 62.3 L0004265 4.00 1.70 3.16 NO 62.3 0 0.24038E-02 630334.3 4175984.5 1.70 3.16 L0004266 4.00 NO L0004267 0 0.24038E-02 630338.0 4175984.5 62.2 4.00 1.70 3.16 NO 0 0.24038E-02 630341.6 4175984.5 62.2 1.70 L0004268 4.00 3.16 NO

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*** AERMET - VERSION 18081 *** *** *** 15:02:10

*** MODELOPTs: CONC ELEV RURAL ADJ U*

L0004278

L0004279

### *** VOLUME SOURCE DATA ***

NUMBER EMISSION RATE BASE RELEASE INIT. INIT. URBAN EMISSION RATE **SOURCE** PART. (GRAMS/SEC) X Y ELEV. HEIGHT SYSZSOURCE SCALAR VARY (METERS) (METERS) (METERS) (METERS) (METERS) ID CATS. BY _____ 0 0.24038E-02 630348.9 4175984.6 L0004270 62.2 4.00 1.70 3.16 NO L0004271 0 0.24038E-02 630352.6 4175984.6 62.1 4.00 1.70 3.16 NO L0004272 0 0.24038E-02 630356.2 4175984.6 62.1 4.00 1.70 3.16 NO L0004273 0 0.24038E-02 630359.9 4175984.6 62.1 4.00 1.70 3.16 NO 0 0.24038E-02 630363.6 4175984.6 62.1 L0004274 4.00 1.70 3.16 NO L0004275 0 0.24038E-02 630367.2 4175984.6 62.0 4.00 1.70 3.16 NO 0 0.24038E-02 630370.9 4175984.7 62.0 L0004276 4.00 1.70 3.16 NO L0004277 0 0.24038E-02 630374.5 4175984.7 62.0 4.00 1.70 3.16 NO

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4.00

1.70

1.70

3.16

3.16

3.16

NO

NO

NO

PAGE 11

0 0.24038E-02 630385.5 4175984.7 L0004280 61.9 4.00 1.70 3.16 NO L0004281 0 0.24038E-02 630389.2 4175984.7 61.9 4.00 1.70 3.16 NO L0004282 0 0.24038E-02 630392.8 4175984.8 61.9 4.00 1.70 3.16 NO L0004283 0 0.24038E-02 630396.5 4175984.8 61.9 4.00 1.70 3.16 NO L0004284 0 0.24038E-02 630400.1 4175984.8 61.8 4.00 1.70 3.16 NO

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*** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-

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*** MODELOPTs: CONC ELEV RURAL ADJ U*

*** AERMET - VERSION 18081 *** ***

#### *** VOLUME SOURCE DATA ***

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NUMBER EMISSION RATE
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                                                                          SZ
                                                                               SOURCE SCALAR VARY
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  *** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-
977GSBU)\Documents\HRA\Tracy C ***
                                         12/13/23
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15:02:10

### *** VOLUME SOURCE DATA ***

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NUMBER EMISSION RATE
                                            BASE RELEASE INIT. INIT. URBAN EMISSION RATE
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 SOURCE
             PART. (GRAMS/SEC) X
                                          Y ELEV. HEIGHT
                                                                         SZ
                                                                              SOURCE SCALAR VARY
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                       (METERS) (METERS) (METERS) (METERS) (METERS)
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977GSBU)\Documents\HRA\Tracy C ***
                                        12/13/23
*** AERMET - VERSION 18081 *** ***
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                                                               PAGE 14
*** MODELOPTs: CONC ELEV RURAL ADJ U*
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 $file: ///C/...977GSBU)/Documents/HRA/Tracy\%20Costco\%20DepotV4\%20-\%20OP/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3. ADO.txt[12/18/2023 \ 11:20:47 \ AM]$ 

#### *** VOLUME SOURCE DATA ***

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                                        12/13/23
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*** AERMET - VERSION 18081 *** ***
                                                                                    15:02:10
                                                               PAGE 15
*** MODELOPTs: CONC ELEV RURAL ADJ U*
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#### *** VOLUME SOURCE DATA ***

BASE RELEASE INIT. INIT. URBAN EMISSION RATE

NUMBER EMISSION RATE

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                                                ELEV. HEIGHT
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                                         12/13/23
*** AERMET - VERSION 18081 *** ***
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                                                                                    15:02:10
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*** MODELOPTs: CONC ELEV RURAL ADJ U*
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*** VOLUME SOURCE DATA ***

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*** AERMET - VERSION 18081 *** ***

*** 15:02:10

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*** MODELOPTs: CONC ELEV RURAL ADJ_U*

#### *** VOLUME SOURCE DATA ***

NUMBER EMISSION RATE
SOURCE PART. (GRAMS/SEC) X

BASE RELEASE INIT. INIT. URBAN EMISSION RATE
Y ELEV. HEIGHT SY SZ SOURCE SCALAR VARY

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*** MODELOPTs: CONC ELEV RURAL ADJ U*

ID

CATS.

### *** VOLUME SOURCE DATA ***

NUMBER EMISSION RATE

BASE RELEASE INIT. INIT. URBAN EMISSION RATE

SOURCE PART. (GRAMS/SEC) X Y ELEV. HEIGHT SY SZ SOURCE SCALAR VARY

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  *** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-
977GSBU)\Documents\HRA\Tracy C ***
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*** AERMET - VERSION 18081 *** ***
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                                                                 PAGE 19
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*** MODELOPTs: CONC ELEV RURAL ADJ_U*

#### *** VOLUME SOURCE DATA ***

NUMBER EMISSION RATE BASE RELEASE INIT. INIT. URBAN EMISSION RATE SOURCE PART. (GRAMS/SEC) X Y ELEV. HEIGHT SZ SYSOURCE SCALAR VARY ID CATS. (METERS) (METERS) (METERS) (METERS) (METERS) L0004590 0 0.24038E-02 631519.3 4175990.1 50.3 4.00 1.70 3.16 NO

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  *** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-
977GSBU)\Documents\HRA\Tracy C ***
                                         12/13/23
*** AERMET - VERSION 18081 *** ***
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                                                                 PAGE 20
*** MODELOPTs: CONC ELEV RURAL ADJ U*
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#### *** VOLUME SOURCE DATA ***

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NUMBER EMISSION RATE
                                      BASE RELEASE INIT. INIT. URBAN EMISSION RATE
SOURCE
           PART. (GRAMS/SEC) X
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                                                               SZ
                                                                    SOURCE SCALAR VARY
                    (METERS) (METERS) (METERS) (METERS) (METERS)
 ID
        CATS.
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                                         12/13/23
*** AERMET - VERSION 18081 *** ***
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*** MODELOPTs: CONC ELEV RURAL ADJ U*

#### *** VOLUME SOURCE DATA ***

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*** MODELOPTs: CONC ELEV RURAL ADJ U*

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L0002386

#### *** VOLUME SOURCE DATA ***

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                                                                       SOURCE SCALAR VARY
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                                                                 3.16
                                                                        NO
*** AERMET - VERSION 18081 *** ***
                                                                                 15:02:10
                                                             PAGE 23
*** MODELOPTs: CONC ELEV RURAL ADJ U*
                          *** VOLUME SOURCE DATA ***
       NUMBER EMISSION RATE
                                          BASE RELEASE INIT. INIT. URBAN EMISSION RATE
             PART. (GRAMS/SEC) X Y ELEV. HEIGHT
 SOURCE
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                                                                      SZ
                                                                           SOURCE SCALAR VARY
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977GSBU)\Documents\HRA\Tracy C ***
                                         12/13/23
*** AERMET - VERSION 18081 *** ***
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                                                                                     15:02:10
                                                                PAGE 24
*** MODELOPTs: CONC ELEV RURAL ADJ U*
                           *** VOLUME SOURCE DATA ***
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BASE RELEASE INIT. INIT. URBAN EMISSION RATE NUMBER EMISSION RATE **SOURCE** PART. (GRAMS/SEC) X Y ELEV. HEIGHT SYSZSOURCE SCALAR VARY ID (METERS) (METERS) (METERS) (METERS) (METERS) CATS. -----0 0.20450E-02 631841.9 4175576.5 L0002460 50.5 4.00 1.70 3.16 NO L0002461 0 0.20450E-02 631841.9 4175572.8 50.5 4.00 1.70 3.16 NO L0002462 0 0.20450E-02 631842.0 4175569.1 50.6 4.00 1.70 3.16 NO L0002463 0 0.20450E-02 631842.0 4175565.5 50.6 4.00 1.70 3.16 NO 0 0.20450E-02 631842.1 4175561.8 1.70 L0002464 50.6 4.00 3.16 NO 0 0.20450E-02 631842.1 4175558.2 50.6 1.70 3.16 L0002465 4.00 NO 0 0.20450E-02 631842.2 4175554.5 L0002466 50.7 4.00 1.70 3.16 NO 0 0.20450E-02 631842.2 4175550.9 50.7 L0002467 4.00 1.70 3.16 NO

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977GSBU)\Documents\HRA\Tracy C ***
                                         12/13/23
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*** AERMET - VERSION 18081 *** ***
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                                                                 PAGE 25
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*** MODELOPTs: CONC ELEV RURAL ADJ_U*

# *** VOLUME SOURCE DATA ***

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NUMBER EMISSION RATE
                                       BASE RELEASE INIT. INIT. URBAN EMISSION RATE
            PART. (GRAMS/SEC) X Y ELEV. HEIGHT
 SOURCE
                                                           SY
                                                                 SZ
                                                                      SOURCE SCALAR VARY
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977GSBU)\Documents\HRA\Tracy C ***
                                         12/13/23
*** AERMET - VERSION 18081 *** ***
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                                                                                      15:02:10
                                                                 PAGE 26
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*** VOLUME SOURCE DATA ***

*** MODELOPTs: CONC ELEV RURAL ADJ U*

NUMBER EMISSION RATE

BASE RELEASE INIT. INIT. URBAN EMISSION RATE
SOURCE PART. (GRAMS/SEC) X Y ELEV. HEIGHT SY SZ SOURCE SCALAR VARY
ID CATS. (METERS) (METERS) (METERS) (METERS) (METERS) BY

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*** AERMET - VERSION 18081 *** ***
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                                                                                  15:02:10
                                                              PAGE 27
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*** MODELOPTS: CONC ELEV RURAL ADJ U*

# *** VOLUME SOURCE DATA ***

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*** AERMET - VERSION 18081 *** ***
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*** MODELOPTs: CONC ELEV RURAL ADJ U*

L0002627

L0002628

L0002629

L0002630

L0002631

L0002632

L0002633

L0002634

#### *** VOLUME SOURCE DATA ***

NUMBER EMISSION RATE BASE RELEASE INIT. INIT. URBAN EMISSION RATE **SOURCE** PART. (GRAMS/SEC) X Y ELEV. HEIGHT SYSZSOURCE SCALAR VARY (METERS) (METERS) (METERS) (METERS) (METERS) ID CATS. L0002620 0 0.20450E-02 631579.3 4175259.8 59.2 4.00 1.70 3.16 NO L0002621 0 0.20450E-02 631575.6 4175259.8 59.1 4.00 1.70 3.16 NO L0002622 0 0.20450E-02 631571.9 4175259.9 59.0 4.00 1.70 3.16 NO 1.70 0 0.20450E-02 631568.7 4175261.0 58.9 L0002623 4.00 3.16 NO L0002624 0 0.20450E-02 631565.8 4175263.3 58.8 4.00 1.70 3.16 NO L0002625 0 0.20450E-02 631563.0 4175265.6 58.7 4.00 1.70 3.16 NO L0002626 0 0.20450E-02 631560.1 4175267.9 58.7 4.00 1.70 3.16 NO

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977GSBU)\Documents\HRA\Tracy C ***
                                         12/13/23
*** AERMET - VERSION 18081 *** ***
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*** MODELOPTs: CONC ELEV RURAL ADJ U*

#### *** VOLUME SOURCE DATA ***

NUMBER EMISSION RATE BASE RELEASE INIT. INIT. URBAN EMISSION RATE PART. (GRAMS/SEC) X Y ELEV. HEIGHT SYSZ**SOURCE** SOURCE SCALAR VARY CATS. ID (METERS) (METERS) (METERS) (METERS) (METERS) L0002660 0 0.20450E-02 631470.7 4175349.0 58.5 4.00 1.70 3.16 NO 0 0.20450E-02 631470.7 4175352.7 L0002661 58.3 4.00 1.70 3.16 NO L0002662 0 0.20450E-02 631470.7 4175356.3 58.1 4.00 1.70 3.16 NO L0002663 0 0.20450E-02 631470.7 4175360.0 57.9 4.00 1.70 3.16 NO L0002664 0 0.20450E-02 631470.6 4175363.6 57.7 4.00 1.70 3.16 NO 0 0.20450E-02 631470.6 4175367.3 57.5 L0002665 4.00 1.70 3.16 NO L0002666 0 0.20450E-02 631470.6 4175371.0 57.3 4.00 1.70 3.16 NO L0002667 0 0.20450E-02 631470.6 4175374.6 57.1 4.00 1.70 3.16 NO L0002668 0 0.20450E-02 631470.6 4175378.3 56.9 4.00 1.70 3.16 NO 0 0.20450E-02 631470.6 4175381.9 56.8 1.70 L0002669 4.00 3.16 NO 0 0.20450E-02 631470.6 4175385.6 56.7 1.70 3.16 L0002670 4.00 NO 0 0.20450E-02 631470.6 4175389.2 56.6 4.00 1.70 3.16 L0002671 NO 0 0.20450E-02 631470.6 4175392.9 56.6 4.00 1.70 3.16 L0002672 NO 0 0.20450E-02 631470.5 4175396.6 1.70 L0002673 56.5 4.00 3.16 NO L0002674 0 0.20450E-02 631470.5 4175400.2 56.5 4.00 1.70 3.16 NO 0 0.20450E-02 631470.5 4175403.9 56.4 4.00 1.70 3.16 NO L0002675 0 0.20450E-02 631470.5 4175407.5 L0002676 56.3 4.00 1.70 3.16 NO L0002677 0 0.20450E-02 631470.5 4175411.2 56.3 4.00 1.70 3.16 NO L0002678 0 0.20450E-02 631470.5 4175414.8 56.3 4.00 1.70 3.16 NO L0002679 0 0.20450E-02 631470.5 4175418.5 56.2 4.00 1.70 3.16 NO 56.2 L0002680 0 0.20450E-02 631470.5 4175422.2 4.00 1.70 3.16 NO

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*** AERMET - VERSION 18081 *** ***
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*** MODELOPTs: CONC ELEV RURAL ADJ U*

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L0002722

#### *** VOLUME SOURCE DATA ***

NUMBER EMISSION RATE BASE RELEASE INIT. INIT. URBAN EMISSION RATE Y **SOURCE** PART. (GRAMS/SEC) X ELEV. HEIGHT SYSZSOURCE SCALAR VARY ID CATS. (METERS) (METERS) (METERS) (METERS) (METERS) 1.70 L0002700 0 0.20450E-02 631470.3 4175495.3 55.6 4.00 3.16 NO L0002701 0 0.20450E-02 631470.3 4175499.0 55.6 4.00 1.70 3.16 NO 0 0.20450E-02 631470.2 4175502.6 L0002702 55.5 4.00 1.70 3.16 NO 55.5 0 0.20450E-02 631470.2 4175506.3 4.00 1.70 3.16 L0002703 NO 55.5 L0002704 0 0.20450E-02 631470.2 4175509.9 4.00 1.70 3.16 NO 0 0.20450E-02 631470.2 4175513.6 55.5 4.00 1.70 3.16 L0002705 NO 0 0.20450E-02 631470.2 4175517.3 55.4 4.00 1.70 3.16 L0002706 NO 0 0.20450E-02 631470.2 4175520.9 55.4 L0002707 4.00 1.70 3.16 NO L0002708 0 0.20450E-02 631470.2 4175524.6 55.4 4.00 1.70 3.16 NO L0002709 0 0.20450E-02 631470.2 4175528.2 55.3 4.00 1.70 3.16 NO L0002710 0 0.20450E-02 631470.2 4175531.9 55.3 4.00 1.70 3.16 NO 0 0.20450E-02 631470.2 4175535.5 55.3 L0002711 4.00 1.70 3.16 NO L0002712 0 0.20450E-02 631470.1 4175539.2 55.3 4.00 1.70 3.16 NO L0002713 0 0.20450E-02 631470.1 4175542.9 55.2 4.00 1.70 3.16 NO 55.2 L0002714 0 0.20450E-02 631470.1 4175546.5 4.00 1.70 3.16 NO 55.2 L0002715 0 0.20450E-02 631470.1 4175550.2 4.00 1.70 3.16 NO 0 0.20450E-02 631470.1 4175553.8 55.2 1.70 L0002716 4.00 3.16 NO 0 0.20450E-02 631470.1 4175557.5 55.1 1.70 3.16 L0002717 4.00 NO 0 0.20450E-02 631470.1 4175561.2 55.1 L0002718 4.00 1.70 3.16 NO 0 0.20450E-02 631470.1 4175564.8 L0002719 55.1 4.00 1.70 3.16 NO 0 0.20450E-02 631470.1 4175568.5 55.0 1.70 3.16 L0002720 4.00 NO L0002721 0 0.20450E-02 631470.0 4175572.1 55.0 4.00 1.70 3.16 NO

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*** AERMET - VERSION 18081 *** ***
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*** MODELOPTS: CONC ELEV RURAL ADJ U*

#### *** VOLUME SOURCE DATA ***

NUMBER EMISSION RATE BASE RELEASE INIT. INIT. URBAN EMISSION RATE **SOURCE** PART. (GRAMS/SEC) X Y ELEV. HEIGHT SZ SOURCE SCALAR VARY SYID (METERS) (METERS) (METERS) (METERS) (METERS) CATS. 0 0.20450E-02 631469.8 4175641.6 54.3 L0002740 4.00 1.70 3.16 NO L0002741 0 0.20450E-02 631469.8 4175645.3 54.3 4.00 1.70 3.16 NO 0 0.20450E-02 631469.8 4175648.9 54.3 4.00 1.70 3.16 L0002742 NO 0 0.20450E-02 631469.8 4175652.6 54.2 4.00 1.70 3.16 L0002743 NO 0 0.20450E-02 631469.8 4175656.2 54.2 4.00 1.70 3.16 NO L0002744 0 0.20450E-02 631469.8 4175659.9 54.1 L0002745 4.00 1.70 3.16 NO L0002746 0 0.20450E-02 631469.8 4175663.6 54.1 4.00 1.70 3.16 NO L0002747 0 0.20450E-02 631469.8 4175667.2 54.1 4.00 1.70 3.16 NO 0 0.20450E-02 631469.8 4175670.9 L0002748 54.0 4.00 1.70 3.16 NO 0 0.20450E-02 631469.8 4175674.5 54.0 L0002749 4.00 1.70 3.16 NO L0002750 0 0.20450E-02 631469.7 4175678.2 53.9 4.00 1.70 3.16 NO L0002751 0 0.20450E-02 631469.7 4175681.9 53.9 4.00 1.70 3.16 NO 0 0.20450E-02 631469.7 4175685.5 L0002752 53.9 4.00 1.70 3.16 NO 0 0.20450E-02 631469.7 4175689.2 53.8 1.70 L0002753 4.00 3.16 NO 0 0.20450E-02 631469.7 4175692.8 53.8 1.70 3.16 L0002754 4.00 NO 0 0.20450E-02 631469.7 4175696.5 53.8 4.00 1.70 3.16 L0002755 NO 0 0.20450E-02 631469.7 4175700.1 53.7 L0002756 4.00 1.70 3.16 NO 0 0.20450E-02 631469.7 4175703.8 53.7 1.70 L0002757 4.00 3.16 NO 0 0.20450E-02 631469.7 4175707.5 L0002758 53.6 4.00 1.70 3.16 NO 0 0.20450E-02 631469.6 4175711.1 53.6 4.00 1.70 3.16 NO L0002759 0 0.20450E-02 631469.6 4175714.8 53.6 L0002760 4.00 1.70 3.16 NO L0002761 0 0.20450E-02 631469.6 4175718.4 53.5 4.00 1.70 3.16 NO L0002762 0 0.20450E-02 631469.6 4175722.1 53.5 4.00 1.70 3.16 NO L0002763 0 0.20450E-02 631469.6 4175725.7 53.5 4.00 1.70 3.16 NO 0 0.20450E-02 631469.6 4175729.4 53.4 L0002764 4.00 1.70 3.16 NO

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977GSBU)\Documents\HRA\Tracy C *** 12/13/23
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*** AERMET - VERSION 18081 *** ***
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                                                                PAGE 32
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*** MODELOPTs: CONC ELEV RURAL ADJ U*

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L0002799

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L0002805

L0002806

## *** VOLUME SOURCE DATA ***

NUMBER EMISSION RATE BASE RELEASE INIT. INIT. URBAN EMISSION RATE PART. (GRAMS/SEC) X Y ELEV. HEIGHT **SOURCE** SYSZSOURCE SCALAR VARY ID CATS. (METERS) (METERS) (METERS) (METERS) (METERS) L0002780 0 0.20450E-02 631469.4 4175787.9 52.8 4.00 1.70 3.16 NO L0002781 0 0.20450E-02 631469.4 4175791.6 52.7 4.00 1.70 NO 3.16 L0002782 0 0.20450E-02 631469.4 4175795.2 52.7 4.00 1.70 3.16 NO 0 0.20450E-02 631469.4 4175798.9 L0002783 52.6 4.00 1.70 3.16 NO 0 0.20450E-02 631469.4 4175802.6 52.6 L0002784 4.00 1.70 3.16 NO 0 0.20450E-02 631469.4 4175806.2 52.5 L0002785 4.00 1.70 3.16 NO L0002786 0 0.20450E-02 631469.4 4175809.9 52.5 4.00 1.70 3.16 NO 0 0.20450E-02 631469.4 4175813.5 52.5 L0002787 4.00 1.70 3.16 NO 0 0.20450E-02 631469.3 4175817.2 52.4 L0002788 4.00 1.70 3.16 NO L0002789 0 0.20450E-02 631469.3 4175820.8 52.4 4.00 1.70 3.16 NO 0 0.20450E-02 631469.3 4175824.5 52.3 4.00 1.70 3.16 L0002790 NO 1.70 0 0.20450E-02 631469.3 4175828.2 52.3 L0002791 4.00 3.16 NO L0002792 0 0.20450E-02 631469.3 4175831.8 52.3 4.00 1.70 3.16 NO L0002793 0 0.20450E-02 631469.3 4175835.5 52.2 4.00 1.70 3.16 NO L0002794 0 0.20450E-02 631469.3 4175839.1 52.2 4.00 1.70 3.16 NO L0002795 0 0.20450E-02 631469.3 4175842.8 52.1 1.70 4.00 3.16 NO

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*** MODELOPTs: CONC ELEV RURAL ADJ_U*

**SRCGROUP ID** 

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977GSBU)\Documents\HRA\Tracy C ***
                                   12/13/23
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*** AERMET - VERSION 18081 *** ***
                                                                          15:02:10
                                                        PAGE 39
*** MODELOPTs: CONC ELEV RURAL ADJ U*
                    *** SOURCE IDs DEFINING SOURCE GROUPS ***
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*** AERMET - VERSION 18081 *** ***
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                                                               PAGE 40
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977GSBU)\Documents\HRA\Tracy C ***

*** MODELOPTs: CONC ELEV RURAL ADJ U*

SRCGROUP ID

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**SOURCE IDs** 

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977GSBU)\Documents\HRA\Tracy C ***
                                     12/13/23
*** AERMET - VERSION 18081 *** ***
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                                                           PAGE 41
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*** MODELOPTs: CONC ELEV RURAL ADJ U*

**SRCGROUP ID** 

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#### *** SOURCE IDs DEFINING SOURCE GROUPS ***

**SOURCE IDs** 

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977GSBU)\Documents\HRA\Tracy C ***
                                     12/13/23
*** AERMET - VERSION 18081 *** ***
                                                                              15:02:10
                                                           PAGE 42
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                     *** SOURCE IDs DEFINING SOURCE GROUPS ***
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 *** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-
977GSBU)\Documents\HRA\Tracy C ***
                                     12/13/23
*** AERMET - VERSION 18081 *** ***
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                                                                              15:02:10
                                                           PAGE 43
*** MODELOPTs: CONC ELEV RURAL ADJ U*
                    *** DIRECTION SPECIFIC BUILDING DIMENSIONS ***
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                 BL XADJ YADJ
                                    IFV BH
                                                BW
                                                      BL XADJ YADJ
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                                  2 13.4, 482.6, 672.9, -569.3, 60.0,
 3 13.4, 565.7, 649.5, -564.6, 18.3,
                                  4 13.4, 631.5, 613.1, -549.6, -23.9,
 5 13.4, 678.2, 573.3, -521.4, -65.5,
                                  6 13.4, 704.3, 517.2, -477.4, -105.0,
 7 13.4, 709.0, 445.4, -419.0, -141.3,
                                   8 13.4, 692.1, 360.1, -347.7, -173.4,
 9 13.4, 658.4, 275.5, -274.5, -198.0,
                                  10 13.4, 676.0, 384.9, -292.3, -218.8,
 11 13.4, 672.9, 482.6, -301.3, -232.8,
                                  12 13.4, 649.5, 565.7, -301.2, -239.9,
                                  14 13.4, 573.3, 678.2, -273.7, -234.8,
 13 13.4, 613.1, 631.5, -291.8, -243.0,
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                                            13.4, 275.5, 658.4, -131.2, -136.7,
   13.4, 384.9, 676.0, -119.2, -99.9,
                                        20 13.4, 482.6, 672.9, -103.6, -60.0,
21 13.4, 565.7, 649.5, -84.9, -18.3,
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   13.4, 613.1, 631.5, -339.7, 243.0,
                                         32 13.4, 573.3, 678.2, -404.6, 234.8,
   13.4, 517.2, 704.3, -457.1, 218.8,
                                         34 13.4, 445.4, 709.0, -495.8, 196.2,
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                                         36 13.4, 275.5, 658.4, -527.2, 136.7,
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#### SOURCE ID: STCK2

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                                                         BW
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    13.4, 517.2, 704.3, -333.8, -168.8,
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    13.4, 613.1, 631.5, -275.4, 166.4,
                                         32 13.4, 573.3, 678.2, -328.0, 170.5,
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    13.4, 517.2, 704.3, -420.4, -118.8,
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977GSBU)\Documents\HRA\Tracy C ***
                                            12/13/23
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*** AERMET - VERSION 18081 *** ***
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*** MODELOPTs: CONC ELEV RURAL ADJ U*
                        *** DIRECTION SPECIFIC BUILDING DIMENSIONS ***
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                          XADJ YADJ
                                           IFV BH
                                                        BW
                                                               BL
                                                                     XADJ
                                                                             YADJ
    13.4, 384.9, 676.0, -162.8, 169.3,
                                         2 13.4, 482.6, 672.9, -193.4, 196.8,
  3 13.4, 565.7, 649.5, -218.2, 218.3,
                                         4 13.4, 631.5, 613.1, -243.2, 233.2,
  5 13.4, 678.2, 573.3, -264.3, 241.0,
                                         6 13.4, 704.3, 517.2, -277.4, 241.4,
                                         8 13.4, 692.1, 360.1, -278.3, 220.5,
  7 13.4, 709.0, 445.4, -282.2, 234.5,
  9 13.4, 658.4, 275.5, -274.5, 202.0,
                                        10 13.4, 676.0, 384.9, -361.8, 175.2,
 11 13.4, 672.9, 482.6, -438.1, 143.0,
                                         12 13.4, 649.5, 565.7, -501.2, 106.6,
 13 13.4, 613.1, 631.5, -548.9, 63.4,
                                        14 13.4, 573.3, 678.2, -580.1, 22.4,
 15 13.4, 517.2, 704.3, -593.6, -18.8,
                                         16 13.4, 445.4, 709.0, -589.0, -59.4,
 17 13.4, 360.1, 692.1, -566.6, -98.2,
                                         18 13.4, 275.5, 658.4, -531.2, -136.7,
                                         20 13.4, 482.6, 672.9, -479.5, -196.8,
 19 13.4, 384.9, 676.0, -513.1, -169.3,
 21 13.4, 565.7, 649.5, -431.3, -218.3,
                                         22 13.4, 631.5, 613.1, -370.0, -233.2,
 23 13.4, 678.2, 573.3, -309.0, -241.0,
                                         24 13.4, 704.3, 517.2, -239.8, -241.4,
 25 13.4, 709.0, 445.4, -163.3, -234.5,
                                         26 13.4, 692.1, 360.1, -81.8, -220.5,
 27 13.4, 658.4, 275.5, -1.1, -202.0,
                                        28 13.4, 676.0, 384.9, -23.1, -175.2,
 29 13.4, 672.9, 482.6, -44.5, -143.0,
                                        30 13.4, 649.5, 565.7, -64.5, -106.6,
 31 13.4, 613.1, 631.5, -82.6, -63.4,
                                        32 13.4, 573.3, 678.2, -98.1, -22.4,
 33 13.4, 517.2, 704.3, -110.7, 18.8,
                                        34 13.4, 445.4, 709.0, -119.9, 59.4,
 35 13.4, 360.1, 692.1, -125.5, 98.2,
                                        36 13.4, 275.5, 658.4, -127.2, 136.7,
```

# SOURCE ID: STCK6

IFV BH BW BL XADJ YADJ IFV BH BW BL XADJ YADJ 1 13.4, 233.2, 487.6, -375.1, 114.2, 2 13.4, 306.2, 483.8, -387.1, 89.3,

```
13.4, 369.9, 465.4, -387.3, 61.8,
                                        4 13.4, 422.3, 432.7, -375.8, 32.3,
   13.4, 461.9, 387.0, -352.8,
                                        6 13.4, 487.4, 337.6, -327.2, -28.6,
                               1.9,
                                         8 13.4, 493.8, 218.4, -255.9, -86.1,
   13.4, 498.2, 282.3, -296.1, -58.2
                                         10 13.4, 487.6, 233.2, -230.8, -131.3,
   13.4, 477.6, 153.2, -212.2, -112.9.
   13.4, 483.8, 306.2, -242.5, -145.2,
                                         12 13.4, 465.4, 369.9, -246.7, -154.6,
   13.4, 432.7, 422.3, -243.5, -159.4,
                                         14 13.4, 387.0, 461.9, -232.8, -159.3,
15
   13.4, 337.6, 487.4, -215.1, -158.4,
                                         16 13.4, 445.4, 709.0, -119.1, 62.2,
    13.4, 360.1, 692.1, -124.9, 103.1,
                                            13.4, 275.5, 658.4, -131.2, 138.3,
19
    13.4, 233.2, 487.6, -112.5, -114.2,
                                         20 13.4, 306.2, 483.8, -96.7, -89.3,
    13.4, 369.9, 465.4, -78.0, -61.8,
                                        22 13.4, 422.3, 432.7, -57.0, -32.3,
    13.4, 461.9, 387.0, -34.2, -1.9,
                                       24 13.4, 487.4, 337.6, -10.4, 28.6,
   13.4, 498.2, 282.3, 13.8, 58.2.
                                        26
                                           13.4, 692.1, 360.1, -283.2, 221.1,
    13.4, 658.4, 275.5, -276.1, 198.0,
                                         28
                                            13.4, 487.6, 233.2, -2.4, 131.3,
   13.4, 483.8, 306.2, -63.8, 145.2,
                                        30 13.4, 465.4, 369.9, -123.2, 154.6,
    13.4, 432.7, 422.3, -178.8, 159.4,
                                         32 13.4, 387.0, 461.9, -229.1, 159.3,
   13.4, 337.6, 487.4, -272.3, 158.4,
                                         34 13.4, 445.4, 709.0, -589.9, -62.2,
35 13.4, 360.1, 692.1, -567.2, -103.1,
                                         36 13.4, 275.5, 658.4, -527.2, -138.3
```

# SOURCE ID: STCK7

```
IFV
      BH
             BW
                          XADJ YADJ
                                            IFV
                                                  BH
                                                         BW
                                                                 BL
                                                                      XADJ
                    BL
                                         2
                                            13.4, 306.2, 483.8, -293.1, 123.5,
    13.4, 384.9, 676.0, -410.5, -153.6,
                                         4 13.4, 422.3, 432.7, -299.2, 96.6,
    13.4, 369.9, 465.4, -300.7, 111.8,
    13.4, 461.9, 387.0, -288.5, 78.5,
                                           13.4, 487.4, 337.6, -277.2, 58.0,
    13.4, 498.2, 282.3, -261.9, 35.7,
                                           13.4, 493.8, 218.4, -238.5, 12.4,
    13.4, 477.6, 153.2, -212.2, -12.9,
                                        10 13.4, 487.6, 233.2, -248.2, -32.8,
    13.4, 483.8, 306.2, -276.7, -51.2,
                                            13.4, 465.4, 369.9, -296.7, -68.0,
                                         12
    13.4, 432.7, 422.3, -307.7, -82.8,
                                         14 13.4, 387.0, 461.9, -309.4, -95.0,
    13.4, 337.6, 487.4, -301.7, -108.4
                                         16 13.4, 282.3, 498.2, -284.8, -120.7.
    13.4, 360.1, 692.1, -223.4, 120.5,
                                             13.4, 275.5, 658.4, -231.2, 138.3,
                                         18
    13.4, 384.9, 676.0, -265.4, 153.6,
                                         20
                                            13.4, 306.2, 483.8, -190.7, -123.5,
    13.4, 369.9, 465.4, -164.7, -111.8,
                                             13.4, 422.3, 432.7, -133.6, -96.6,
    13.4, 461.9, 387.0, -98.5, -78.5,
                                        24 13.4, 487.4, 337.6, -60.4, -58.0,
    13.4, 498.2, 282.3, -20.4, -35.7,
                                            13.4, 493.8, 218.4, 20.1, -12.4,
                                        26
    13.4, 658.4, 275.5, -276.1, 98.0,
                                         28
                                            13.4, 487.6, 233.2, 15.0, 32.8,
    13.4, 483.8, 306.2, -29.6, 51.2,
                                        30 13.4, 465.4, 369.9, -73.2, 68.0,
                                         32 13.4, 387.0, 461.9, -152.5, 95.0,
    13.4, 432.7, 422.3, -114.5, 82.8,
    13.4, 337.6, 487.4, -185.7, 108.4,
                                         34 13.4, 282.3, 498.2, -213.4, 120.7,
    13.4, 360.1, 692.1, -468.7, -120.5,
                                         36 13.4, 275.5, 658.4, -427.2, -138.3,
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#### **SOURCE ID: STCK8**

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XADJ
IFV
      BH
             BW
                          XADJ YADJ
                                            IFV
                                                  BH
                                                         BW
                                                                BL
                    BL
                                                                               YADJ
    13.4, 384.9, 676.0, -312.0, -136.2,
                                            13.4, 306.2, 483.8, -199.2, 157.8,
    13.4, 369.9, 465.4, -214.1, 161.8,
                                         4
                                           13.4, 422.3, 432.7, -222.6, 160.9,
 5
   13.4, 461.9, 387.0, -224.2, 155.1.
                                           13.4, 487.4, 337.6, -227.2, 144.6,
    13.4, 498.2, 282.3, -227.7, 129.7,
                                            13.4, 493.8, 218.4, -221.2, 110.9,
                                         8
    13.4, 477.6, 153.2, -212.2, 87.1,
                                        10
                                           13.4, 487.6, 233.2, -265.6, 65.6,
    13.4, 483.8, 306.2, -310.9, 42.8,
                                            13.4, 465.4, 369.9, -346.7, 18.6,
13
    13.4, 432.7, 422.3, -372.0, -6.2,
                                        14
                                            13.4, 387.0, 461.9, -386.0, -30.7,
    13.4, 337.6, 487.4, -388.3, -58.4,
                                         16 13.4, 282.3, 498.2, -378.8, -86.5,
    13.4, 218.4, 493.8, -357.8, -112.0,
                                         18
                                            13.4, 275.5, 658.4, -331.2, 138.3,
                                         20
    13.4, 384.9, 676.0, -363.9, 136.2,
                                             13.4, 306.2, 483.8, -284.7, -157.8,
                                         22
    13.4, 369.9, 465.4, -251.2, -161.8,
                                             13.4, 422.3, 432.7, -210.2, -160.9.
    13.4, 461.9, 387.0, -162.8, -155.1,
                                         24
                                            13.4, 487.4, 337.6, -110.4, -144.6,
25 13.4, 498.2, 282.3, -54.6, -129.7,
                                         26 13.4, 493.8, 218.4, 2.8, -110.9,
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```
XADJ YADJ
    1 13.4, 384.9, 676.0, -115.1, -101.5,
                                             2 13.4, 482.6, 672.9, -99.4, -61.6,
       13.4, 565.7, 649.5, -80.7, -19.9,
                                            4 13.4, 631.5, 613.1, -66.4, 22.5,
    5 13.4, 678.2, 573.3, -53.7, 64.2,
                                            6 13.4, 704.3, 517.2, -39.3, 103.9,
    7 13.4, 709.0, 445.4, -23.7, 140.5,
                                            8 13.4, 692.1, 360.1, -7.5, 172.8,
    9 13.4, 658.4, 275.5, 0.5, 202.0,
                                           10 13.4, 676.0, 384.9, -91.0, 222.9,
    11 13.4, 672.9, 482.6, -179.7, 237.1,
                                             12 13.4, 649.5, 565.7, -263.0, 244.1,
    13 13.4, 613.1, 631.5, -338.3, 240.2,
                                             14 13.4, 573.3, 678.2, -403.3, 233.0,
    15 13.4, 517.2, 704.3, -456.1, 219.3,
                                             16 13.4, 445.4, 709.0, -495.0, 199.0,
       13.4, 360.1, 692.1, -518.8, 172.6,
                                                13.4, 275.5, 658.4, -531.2, 138.3,
                                             18
    19 13.4, 384.9, 676.0, -560.9, 101.5,
                                             20 13.4, 482.6, 672.9, -573.6, 61.6,
    21 13.4, 565.7, 649.5, -568.8, 19.9,
                                            22 13.4, 631.5, 613.1, -546.8, -22.5,
    23 13.4, 678.2, 573.3, -519.7, -64.2,
                                             24 13.4, 704.3, 517.2, -477.9, -103.9.
                                             26 13.4, 692.1, 360.1, -352.6, -172.8.
    25 13.4, 709.0, 445.4, -421.7, -140.5,
    27 13.4, 658.4, 275.5, -276.1, -202.0,
                                             28
                                                13.4, 676.0, 384.9, -293.9, -222.9,
    29 13.4, 672.9, 482.6, -302.9, -237.1,
                                             30 13.4, 649.5, 565.7, -302.7, -244.1,
    31 13.4, 613.1, 631.5, -293.3, -240.2,
                                             32 13.4, 573.3, 678.2, -274.9, -233.0,
    33 13.4, 517.2, 704.3, -248.2, -219.3,
                                             34 13.4, 445.4, 709.0, -214.0, -199.0,
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28 13.4, 676.0, 384.9, -328.7, -25.9,

30 13.4, 465.4, 369.9, -23.2, -18.6,

32 13.4, 387.0, 461.9, -75.8, 30.7,

34 13.4, 282.3, 498.2, -119.4, 86.5,

*** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-

IFV

IFV

BH

12/13/23

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

BH

36 13.4, 275.5, 658.4, -327.2, -138.3,

BW

4 13.4, 631.5, 613.1, -143.0, -41.8,

6 13.4, 487.4, 337.6, -177.2, 231.2,

8 13.4, 493.8, 218.4, -203.8, 209.4,

10 13.4, 487.6, 233.2, -282.9, 164.1,

14 13.4, 387.0, 461.9, -462.6, 33.5,

16 13.4, 282.3, 498.2, -472.8, -52.3,

18 13.4, 275.5, 658.4, -431.2, 138.3,

20 13.4, 482.6, 672.9, -479.6, 95.8,

22 13.4, 631.5, 613.1, -470.1, 41.8,

24 13.4, 487.4, 337.6, -160.4, -231.2,

30 13.4, 649.5, 565.7, -352.7, -157.5,

32 13.4, 387.0, 461.9, 0.8, -33.5,

34 13.4, 282.3, 498.2, -25.4, 52.3,

36 13.4, 275.5, 658.4, -227.2, -138.3,

BW

BL

**XADJ** 

YADJ

26 13.4, 493.8, 218.4, -14.6, -209.4, 28 13.4, 676.0, 384.9, -311.3, -124.4,

12 13.4, 465.4, 369.9, -396.7, 105.2,

13.4, 482.6, 672.9, -193.4, -95.8,

BL

PAGE 45

XADJ

YADJ

15:02:10

13.4, 658.4, 275.5, -276.1, -2.0, 13.4, 483.8, 306.2, 4.7, -42.8,

13.4, 218.4, 493.8, -136.0, 112.0,

*** MODELOPTs: CONC ELEV RURAL ADJ U*

XADJ YADJ

31 13.4, 432.7, 422.3, -50.3, 6.2,

33 13.4, 337.6, 487.4, -99.1, 58.4,

977GSBU)\Documents\HRA\Tracy C ***

*** AERMET - VERSION 18081 ***

**SOURCE ID: STCK9** 

BW

BL

13.4, 384.9, 676.0, -213.5, -118.9,

13.4, 565.7, 649.5, -167.3, -69.8,

13.4, 498.2, 282.3, -193.5, 223.7,

13.4, 483.8, 306.2, -345.1, 136.7,

13.4, 218.4, 493.8, -456.2, -94.6,

5 13.4, 461.9, 387.0, -160.0, 231.7,

9 13.4, 477.6, 153.2, -212.2, 187.1,

13 13.4, 432.7, 422.3, -436.3, 70.4,

15 13.4, 337.6, 487.4, -474.9, -8.4,

19 13.4, 384.9, 676.0, -462.4, 118.9,

21 13.4, 565.7, 649.5, -482.2, 69.8,

23 13.4, 461.9, 387.0, -227.0, -231.7,

25 13.4, 498.2, 282.3, -88.8, -223.7,

27 13.4, 658.4, 275.5, -276.1, -102.0, 29 13.4, 672.9, 482.6, -337.1, -143.1,

31 13.4, 432.7, 422.3, 14.0, -70.4,

33 13.4, 337.6, 487.4, -12.5, 8.4,

SOURCE ID: STCK10

BW

BH

**IFV** 

13.4, 218.4, 493.8, -37.5, 94.6,

BL

BH

IFV

```
SOURCE ID: STCK11
                          XADJ YADJ
       BH
              BW
                                            IFV
                                                  BH
                                                        BW
                                                                BL
                                                                     XADJ
 IFV
                     BL
                                                                              YADJ
     13.4, 233.2, 487.6, -266.2, 72.5,
                                           13.4, 306.2, 483.8, -272.6, 67.2,
    13.4, 369.9, 465.4, -270.7, 59.8,
                                           13.4, 422.3, 432.7, -260.6, 50.6,
  5 13.4, 461.9, 387.0, -242.6, 39.9,
                                          13.4, 487.4, 337.6, -225.3, 28.0,
  7 13.4, 498.2, 282.3, -205.5, 15.2,
                                        8 13.4, 493.8, 218.4, -179.4,
  9 13.4, 477.6, 153.2, -152.2, -12.9,
                                        10 13.4, 487.6, 233.2, -189.1, -22.4,
                                         12 13.4, 465.4, 369.9, -244.7, -38.0,
 11 13.4, 483.8, 306.2, -220.3, -30.7,
 13 13.4, 432.7, 422.3, -261.8, -44.2,
                                         14 13.4, 387.0, 461.9, -270.9, -49.1,
                                         16 13.4, 282.3, 498.2, -264.3, -64.3,
 15 13.4, 337.6, 487.4, -271.7, -56.5,
 17 13.4, 218.4, 493.8, -248.9, -70.2,
                                         18
                                            13.4, 153.2, 477.6, -225.9, -75.6,
 19 13.4, 233.2, 487.6, -221.4, -72.5,
                                         20 13.4, 306.2, 483.8, -211.2, -67.2,
 21 13.4, 369.9, 465.4, -194.7, -59.8,
                                         22
                                            13.4, 422.3, 432.7, -172.2, -50.6,
 23 13.4, 461.9, 387.0, -144.4, -39.9,
                                         24 13.4, 487.4, 337.6, -112.3, -28.0,
 25 13.4, 498.2, 282.3, -76.8, -15.2,
                                        26 13.4, 493.8, 218.4, -38.9, -2.0,
 27 13.4, 477.6, 153.2, -1.0, 12.9,
                                       28 13.4, 487.6, 233.2, -44.1, 22.4,
 29 13.4, 483.8, 306.2, -85.9, 30.7,
                                        30 13.4, 465.4, 369.9, -125.1, 38.0,
 31 13.4, 432.7, 422.3, -160.5, 44.2,
                                        32 13.4, 387.0, 461.9, -191.0, 49.1,
 33 13.4, 337.6, 487.4, -215.7, 56.5,
                                        34 13.4, 282.3, 498.2, -233.9, 64.3,
 35 13.4, 218.4, 493.8, -244.9, 70.2,
                                        36 13.4, 153.2, 477.6, -251.7, 75.6,
SOURCE ID: STCK12
                          XADJ YADJ
                                            IFV
                                                  BH
                                                        BW
                                                                BL
                                                                      XADJ
 IFV
       BH
             BW
                     BL
                                                                             YADJ
     13.4, 233.2, 487.6, -167.7, 89.9,
                                           13.4, 306.2, 483.8, -178.6, 101.4,
  3 13.4, 369.9, 465.4, -184.1, 109.8,
                                         4 13.4, 422.3, 432.7, -184.0, 114.9,
  5 13.4, 461.9, 387.0, -178.3, 116.5,
                                         6 13.4, 487.4, 337.6, -175.3, 114.6,
  7 13.4, 498.2, 282.3, -171.3, 109.2,
                                           13.4, 493.8, 218.4, -162.1, 100.5,
  9 13.4, 477.6, 153.2, -152.2, 87.1,
                                        10 13.4, 487.6, 233.2, -206.5, 76.1,
 11 13.4, 483.8, 306.2, -254.5, 63.3,
                                        12 13.4, 465.4, 369.9, -294.7, 48.6,
 13 13.4, 432.7, 422.3, -326.1, 32.4,
                                        14 13.4, 387.0, 461.9, -347.5, 15.2,
 15 13.4, 337.6, 487.4, -358.3, -6.5,
                                        16 13.4, 282.3, 498.2, -358.3, -30.1,
 17 13.4, 218.4, 493.8, -347.4, -52.9,
                                            13.4, 153.2, 477.6, -325.9, -75.6,
                                         18
 19 13.4, 233.2, 487.6, -319.9, -89.9,
                                         20 13.4, 306.2, 483.8, -305.2, -101.4,
 21 13.4, 369.9, 465.4, -281.2, -109.8
                                         22
                                            13.4, 422.3, 432.7, -248.8, -114.9.
 23 13.4, 461.9, 387.0, -208.7, -116.5,
                                         24 13.4, 487.4, 337.6, -162.3, -114.6,
    13.4, 498.2, 282.3, -111.0, -109.2.
                                         26 13.4, 493.8, 218.4, -56.3, -100.5,
 27 13.4, 477.6, 153.2, -1.0, -87.1,
                                       28 13.4, 487.6, 233.2, -26.8, -76.1,
 29 13.4, 483.8, 306.2, -51.7, -63.3,
                                        30 13.4, 465.4, 369.9, -75.1, -48.6,
 31 13.4, 432.7, 422.3, -96.2, -32.4,
                                        32 13.4, 387.0, 461.9, -114.4, -15.2,
    13.4, 337.6, 487.4, -129.1, 6.5,
                                        34 13.4, 282.3, 498.2, -139.9, 30.1,
 35 13.4, 218.4, 493.8, -146.5, 52.9,
                                        36 13.4, 153.2, 477.6, -151.7, 75.6,
  *** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-
977GSBU)\Documents\HRA\Tracy C ***
                                            12/13/23
                                                                                   ***
*** AERMET - VERSION 18081 ***
                                                                                           15:02:10
                                                                     PAGE 46
*** MODELOPTs: CONC ELEV RURAL ADJ U*
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*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

```
IFV
 IFV
       BH
             BW
                          XADJ YADJ
                                                         BW
                     BL
                                                  BH
                                                                BL
                                                                      XADJ
                                                                              YADJ
     13.4, 233.2, 487.6, -240.2, -75.2,
                                           13.4, 306.2, 483.8, -221.3, -73.8,
     13.4, 369.9, 465.4, -195.7, -70.1,
                                           13.4, 422.3, 432.7, -164.2, -64.3,
  5 13.4, 461.9, 387.0, -127.6, -56.5,
                                          13.4, 487.4, 337.6, -95.4, -47.0,
                                          13.4, 493.8, 218.4, -31.7, -24.1,
    13.4, 498.2, 282.3, -64.5, -36.1,
  9 13.4, 477.6, 153.2, -2.2, -12.9,
                                       10 13.4, 487.6, 233.2, -41.4, 3.6,
 11 13.4, 483.8, 306.2, -79.3, 20.6,
                                        12 13.4, 465.4, 369.9, -114.8, 37.0,
 13 13.4, 432.7, 422.3, -146.9, 52.2,
                                         14 13.4, 387.0, 461.9, -174.4, 65.8,
 15 13.4, 337.6, 487.4, -196.7, 73.4,
                                         16 13.4, 282.3, 498.2, -213.0, 76.6,
 17 13.4, 218.4, 493.8, -222.8, 77.5,
                                            13.4, 153.2, 477.6, -225.9, 74.4,
                                         18
 19 13.4, 233.2, 487.6, -247.4, 75.2,
                                        20 13.4, 306.2, 483.8, -262.5, 73.8,
 21 13.4, 369.9, 465.4, -269.7, 70.1,
                                        22
                                            13.4, 422.3, 432.7, -268.6, 64.3,
 23 13.4, 461.9, 387.0, -259.3, 56.5,
                                            13.4, 487.4, 337.6, -242.2, 47.0,
 25 13.4, 498.2, 282.3, -217.8, 36.1,
                                            13.4, 493.8, 218.4, -186.7, 24.1,
                                        26
 27 13.4, 477.6, 153.2, -151.0, 12.9,
                                            13.4, 487.6, 233.2, -191.8, -3.6,
                                        28
 29 13.4, 483.8, 306.2, -226.9, -20.6,
                                         30
                                            13.4, 465.4, 369.9, -255.0, -37.0,
 31 13.4, 432.7, 422.3, -275.4, -52.2,
                                         32 13.4, 387.0, 461.9, -287.4, -65.8,
                                         34 13.4, 282.3, 498.2, -285.2, -76.6,
 33 13.4, 337.6, 487.4, -290.7, -73.4,
    13.4, 218.4, 493.8, -271.0, -77.5,
                                         36 13.4, 153.2, 477.6, -251.7, -74.4,
SOURCE ID: STCK14
 IFV
       BH
              BW
                     BL
                           XADJ YADJ
                                            IFV
                                                  BH
                                                         BW
                                                                BL
                                                                      XADJ
                                                                              YADJ
     13.4, 233.2, 487.6, -141.7, -57.9,
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  3 13.4, 369.9, 465.4, -109.1, -20.1,
                                           13.4, 422.3, 432.7, -87.6, 0.0,
  5 13.4, 461.9, 387.0, -63.4, 20.1,
                                          13.4, 487.4, 337.6, -45.4, 39.6,
                                        6
  7 13.4, 498.2, 282.3, -30.3, 57.9,
                                        8
                                          13.4, 493.8, 218.4, -14.4, 74.4,
  9 13.4, 477.6, 153.2, -2.2, 87.1,
                                       10 13.4, 487.6, 233.2, -58.8, 102.1,
 11 13.4, 483.8, 306.2, -113.5, 114.6,
                                         12 13.4, 465.4, 369.9, -164.8, 123.6,
 13 13.4, 432.7, 422.3, -211.2, 128.8,
                                         14 13.4, 387.0, 461.9, -251.1, 130.1,
 15 13.4, 337.6, 487.4, -283.3, 123.4,
                                         16 13.4, 282.3, 498.2, -307.0, 110.8,
 17 13.4, 218.4, 493.8, -321.3, 94.8,
                                            13.4, 153.2, 477.6, -325.9, 74.4,
                                         18
                                            13.4, 306.2, 483.8, -356.5, 39.6,
 19 13.4, 233.2, 487.6, -345.9, 57.9,
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 21 13.4, 369.9, 465.4, -356.2, 20.1,
                                            13.4, 422.3, 432.7, -345.2, -0.0,
     13.4, 461.9, 387.0, -323.6, -20.1,
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    13.4, 498.2, 282.3, -252.0, -57.9,
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                                            13.4, 493.8, 218.4, -204.0, -74.4,
 27 13.4, 477.6, 153.2, -151.0, -87.1,
                                         28 13.4, 487.6, 233.2, -174.5, -102.1,
 29 13.4, 483.8, 306.2, -192.7, -114.6,
                                         30 13.4, 465.4, 369.9, -205.0, -123.6,
 31 13.4, 432.7, 422.3, -211.1, -128.8,
                                         32 13.4, 387.0, 461.9, -210.8, -130.1,
    13.4, 337.6, 487.4, -204.1, -123.4,
                                         34 13.4, 282.3, 498.2, -191.2, -110.8,
 35 13.4, 218.4, 493.8, -172.5, -94.8,
                                         36 13.4, 153.2, 477.6, -151.7, -74.4,
  *** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-
977GSBU)\Documents\HRA\Tracy C ***
                                            12/13/23
*** AERMET - VERSION 18081 *** ***
                                                                                   ***
                                                                                           15:02:10
                                                                     PAGE 47
*** MODELOPTs: CONC ELEV RURAL ADJ_U*
                          *** DISCRETE CARTESIAN RECEPTORS ***
                        (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                  (METERS)
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                            58.1,
                                    58.1,
                                             0.0);
                                                      (632304.4, 4174354.5,
                                                                                71.1,
                                                                                        71.1,
                                                                                                0.0);
   (632192.2, 4174956.3,
                            56.8,
                                    56.8,
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                                                                                                (0.0);
   (632419.0, 4175552.9,
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                                    45.6,
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                                                      (631187.0, 4175727.0,
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                                                                                        56.4,
                                                                                                0.0);
   (631166.0, 4175729.0,
                                             0.0);
                                                      (631121.0, 4175719.0,
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                                    56.1,
                                                                                56.0,
                                                                                        56.0,
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                                                                                                         0.0);
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                                      105.0,
                                                (0.0);
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                                      77.2,
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                                                 0.0);
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                                      90.2,
                                               (0.0):
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                                                         (633300.6, 4174200.4,
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                                                                                             78.4,
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                                               0.0);
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                                                                                             69.0,
                                                                                                       0.0);
   (631550.6, 4174900.4,
                             64.3,
                                      64.3,
                                                                                     59.6.
                                                                                             59.6,
                                               0.0);
                                                          (631900.6, 4174900.4,
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   (632950.6, 4174900.4,
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                                      54.1,
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                                                                                             66.4,
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                                      68.8,
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                                                                                                       0.0);
                                                                                             58.7,
                                               0.0);
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                                      64.6,
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                                                                                             49.5,
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                                                                                                       (0.0);
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                                      66.5,
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                                                                                             67.9,
                                                                                                       0.0);
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                                                                                     57.3,
                                                                                             57.3.
                             61.8,
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  *** AERMOD - VERSION 19191 ***
977GSBU)\Documents\HRA\Tracy C ***
                                               12/13/23
                                                                                         ***
*** AERMET - VERSION 18081 ***
                                                                                                 15:02:10
                                                                         PAGE 48
*** MODELOPTs: CONC ELEV RURAL ADJ U*
                            *** DISCRETE CARTESIAN RECEPTORS ***
                          (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                    (METERS)
                                                                                     56.5,
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                             60.3.
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                                      51.8,
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                                                                                             49.5,
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                                      43.6,
                                               0.0);
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                                                                                             42.3,
                                                                                                      0.0);
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   (631900.6, 4176650.4,
                              39.7,
                                      39.7,
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                                                                                    36.5,
                                                                                             36.5,
                                                                                                      0.0);
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                              34.0.
                                      34.0.
                                               0.0);
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                                                                                    31.2,
                                                                                             31.2,
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                                      29.9,
                                               0.0);
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                                                                                    54.3,
                                                                                             54.3,
                                                                                                      0.0);
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                              49.7,
                                      49.7,
                                               0.0);
                                                          (630500.6, 4177000.4,
                                                                                    48.6,
                                                                                             48.6,
                                                                                                      0.0);
                                                                                    40.9,
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                              46.4,
                                      46.4,
                                               0.0);
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                                      41.2,
                                               0.0);
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                                                                                             35.9,
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   (632250.6, 4177000.4,
                             33.6,
                                      33.6,
                                               0.0);
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                                      53.1,
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                                                                                    47.1,
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                                                                                                      0.0);
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                                      38.6,
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  *** AERMOD - VERSION 19191 ***
977GSBU)\Documents\HRA\Tracy C ***
                                               12/13/23
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*** AERMET - VERSION 18081 *** ***
                                                                                                 15:02:10
                                                                         PAGE 49
*** MODELOPTs: CONC ELEV RURAL ADJ U*
                            *** DISCRETE CARTESIAN RECEPTORS ***
                          (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
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977GSBU)\Documents\HRA\Tracy C ***
                                               12/13/23
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*** AERMET - VERSION 18081 ***
                                                                                                 15:02:10
                                                                         PAGE 50
*** MODELOPTs: CONC ELEV RURAL ADJ U*
                           *** DISCRETE CARTESIAN RECEPTORS ***
                          (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
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                                                                                                       0.0);
   (631050.6, 4175200.5,
                              64.5,
                                      64.5,
                                               0.0);
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                                      64.9,
                                               0.0);
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  *** AERMOD - VERSION 19191 ***
                                            *** C:\Users\Smith\Dropbox\My PC (DESKTOP-
977GSBU)\Documents\HRA\Tracy C ***
                                               12/13/23
                                                                                         ***
*** AERMET - VERSION 18081 ***
                                                                                                 15:02:10
                                                                         PAGE 51
*** MODELOPTs: CONC ELEV RURAL ADJ U*
                            *** DISCRETE CARTESIAN RECEPTORS ***
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                                                                                             59.4,
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                                                                                    44.8,
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                                               0.0);
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                             43.4,
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                             46.2,
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                                                                                    45.1,
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                                                                                    42.7,
                                                                                             42.7,
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  *** AERMOD - VERSION 19191 ***
                                           *** C:\Users\Smith\Dropbox\My PC (DESKTOP-
977GSBU)\Documents\HRA\Tracy C ***
                                               12/13/23
                                                                                        ***
*** AERMET - VERSION 18081 *** ***
                                                                                                15:02:10
                                                                         PAGE 52
*** MODELOPTs: CONC ELEV RURAL ADJ U*
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* SOURCE-RECEPTOR COMBINATIONS FOR WHICH CALCULATIONS MAY NOT BE PERFORMED

LESS THAN 1.0 METER; WITHIN OPENPIT; OR BEYOND 80KM FOR FASTAREA/FASTALL

SOURCE		OR LOCATION	
ID	XR (METERS)	YR (METERS)	(METERS)
L0004569	631442.9	4175985.1	0.96
L0004580	631481.6	4175985.4	0.98
L0004585	631501.0	4175985.6	0.76
L0004590	631520.4	4175985.7	0.82
L0004596	631539.8	4175985.9	0.91
L0004601	631559.2	4175986.0	0.61
L0004606	631578.6	4175986.2	0.58
L0004611	631597.9	4175986.3	0.83
L0004612	631597.9	4175986.3	0.88
L0004617	631617.3	4175986.5	0.49
L0004622	631636.7	4175986.6	0.35
L0004627	631656.1	4175986.8	0.52
L0004628	631656.1	4175986.8	0.89
L0004632	631675.5	4175986.9	0.95
L0004633	631675.5	4175986.9	0.40
L0004638	631694.9	4175987.1	0.17

L0004643	631714.2	4175987.2	0.24
L0004644	631714.2	4175987.2	0.94
L0004648	631733.6	4175987.4	0.61
L0004649	631733.6	4175987.4	0.35
L0004654	631753.0	4175987.5	0.02
L0004659	631772.4	4175987.7	-0.01
L0004664	631791.8	4175987.8	0.27
L0004665	631791.8	4175987.8	0.35
L0004669	631811.2	4175988.0	0.82
L0004670	631811.2	4175988.0	-0.10
L0004675	631830.5	4175988.1	-0.24
L0002678	631474.2	4175414.6	0.06
L0002685	631474.1	4175442.1	0.32
L0002686	631474.1	4175442.1	0.53

*** AERMET - VERSION 18081 *** *** *** 15:02:10

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*** MODELOPTs: CONC ELEV RURAL ADJ U*

*** METEOROLOGICAL DAYS SELECTED FOR PROCESSING *** (1=YES; 0=NO)

1111111111 111111

NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.

#### *** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES *** (METERS/SEC)

1.54, 3.09, 5.14, 8.23, 10.80,

*** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-

977GSBU)\Documents\HRA\Tracy C *** 12/13/23

*** AERMET - VERSION 18081 *** *** *** 15:02:10

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*** MODELOPTS: CONC ELEV RURAL ADJ U*

*** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

Surface file: AERMET\Tracy 2004-2008.SFC Met Version: 18081

Profile file: AERMET\Tracy 2004-2008.PFL

Surface format: FREE Profile format: FREE

Surface station no.: 99008 Upper air station no.: 66666

Name: TRACY,CA Name: UNKNOWN

Year: 2004 Year: 2004

SLINE2 ***

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First 24 hours of scalar data
YR MO DY JDY HR HO U* W* DT/DZ ZICNV ZIMCH M-O LEN ZO BOWEN ALBEDO REF WS WD
HT REF TA HT
04 01 01 1 01 -30.2 0.306 -9.000 -9.000 -9.99. 406. 102.9 0.09 0.77 1.00 4.10 151. 14.0 282.0 2.0
04 01 01 1 02 -35.7 0.362 -9.000 -9.000 -999. 523. 144.2 0.11 0.77 1.00 4.60 148. 14.0 282.0 2.0
04 01 01 1 03 -44.6 0.453 -9.000 -9.000 -999. 731. 225.4 0.11 0.77 1.00 5.70 144. 14.0 281.8 2.0
04 01 01 1 04 -48.8 0.494 -9.000 -9.000 -999. 833. 268.6 0.11 0.77 1.00 6.20 143. 14.0 281.6 2.0
04 01 01 1 05 -52.8 0.536 -9.000 -9.000 -999. 940. 315.8 0.11 0.77 1.00 6.70 143. 14.0 281.5 2.0
04 01 01 1 06 -57.0 0.578 -9.000 -9.000 -999. 1052. 367.0 0.11 0.77 1.00 7.20 142. 14.0 281.4 2.0
04 01 01 1 07 -61.2 0.619 -9.000 -9.000 -999. 1168. 422.1 0.11 0.77 1.00 7.70 135. 14.0 281.2 2.0
04 01 01 1 08 -64.0 0.658 -9.000 -9.000 -999. 1279. 476.0 0.11 0.77 0.73 8.20 143. 14.0 281.2 2.0
04 01 01 1 09 7.0 0.717 0.238 0.005 68. 1454. -4692.4 0.11 0.77 0.39 8.70 137. 14.0 281.5 2.0
04 01 01 1 10 43.3 0.655 0.675 0.005 251. 1280. -574.5 0.09 0.77 0.27 8.20 151. 14.0 282.1 2.0
04 01 01 1 11 70.4 0.549 0.930 0.005 405. 989. -207.5 0.09 0.77 0.23 6.70 164. 14.0 283.1 2.0
04 01 01 1 12 90.7 0.480 1.217 0.005 703. 804. -107.8 0.09 0.77 0.21 5.70 166. 14.0 284.1 2.0
04 01 01 1 13 92.9 0.395 1.327 0.005 891. 602. -58.8 0.08 0.77 0.21 4.60 183. 14.0 284.9 2.0
04 01 01 1 14 81.1 0.321 1.332 0.005 1031. 440. -36.0 0.08 0.77 0.22 3.60 189. 14.0 285.2 2.0
04 01 01 1 15 47.5 0.160 1.139 0.005 1104. 174. -7.6 0.08 0.77 0.26 1.50 192. 14.0 284.5 2.0
04 01 01 1 16 19.1 0.076 0.847 0.005 1130. 56. -2.0 0.12 0.77 0.34 0.50 54. 14.0 283.5 2.0
04 01 01 1 17 -5.0 0.110 -9.000 -9.000 -999. 88.
                                               23.5 0.10 0.77 0.59 1.50 341. 14.0 283.1 2.0
                                               21.5 0.11 0.77 1.00 1.50 307. 14.0 282.2 2.0
04 01 01 1 18 -5.6 0.111 -9.000 -9.000 -999. 89.
04 01 01 1 19 -17.3 0.197 -9.000 -9.000 -9.000 -999. 209. 42.5 0.10 0.77 1.00 2.60 284. 14.0 281.2 2.0
04 01 01 1 20 -27.2 0.273 -9.000 -9.000 -999. 342. 81.8 0.10 0.77 1.00 3.60 267. 14.0 280.4
04 01 01 1 21 -31.2 0.312 -9.000 -9.000 -9.99. 419. 107.3 0.10 0.77 1.00 4.10 260. 14.0 279.8 2.0
04 01 01 1 22 -35.2 0.352 -9.000 -9.000 -999. 501. 136.4 0.10 0.77 1.00 4.60 262. 14.0 279.4 2.0
04 01 01 1 23 -35.3 0.352 -9.000 -9.000 -999. 501. 136.4 0.10 0.77 1.00 4.60 250. 14.0 279.2 2.0
04 01 01 1 24 -31.3 0.312 -9.000 -9.000 -999. 420. 107.3 0.10 0.77 1.00 4.10 240. 14.0 279.0 2.0
First hour of profile data
YR MO DY HR HEIGHT F WDIR WSPD AMB TMP sigmaA sigmaW sigmaV
04 01 01 01 14.0 1 151. 4.10 282.1 99.0 -99.00 -99.00
F indicates top of profile (=1) or below (=0)
  *** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-
977GSBU)\Documents\HRA\Tracy C ***
                                       12/13/23
                                                                           ***
*** AERMET - VERSION 18081 *** ***
                                                                                  15:02:10
                                                              PAGE 55
*** MODELOPTS: CONC ELEV RURAL ADJ U*
               *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:
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L0003971 ,L0003972 ,L0003973 ,L0003974 ,L0003975 ,L0003976 ,L0003977 ,...
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*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3

INCLUDING SOURCE(S): L0003950 , L0003951 , L0003952 , L0003953 , L0003954

L0003955 ,L0003956 ,L0003957 ,L0003958 ,L0003959 ,L0003960 ,L0003961 ,L0003962 , L0003963 ,L0003964 ,L0003965 ,L0003966 ,L0003967 ,L0003968 ,L0003969 ,L0003970 ,

X-COORD (M) Y-COORD (M) X-COORD (M) Y-COORD (M) CONC CONC ______ 632121.21 4174952.36 0.30592 632304.44 4174354.52 0.13846

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  *** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-
977GSBU)\Documents\HRA\Tracy C ***
                                         12/13/23
                                                                              ***
*** AERMET - VERSION 18081 *** ***
                                                                                     15:02:10
                                                                PAGE 56
*** MODELOPTs: CONC ELEV RURAL ADJ U*
                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:
SLINE2 ***
                                                        , L0003951
                                                                                             ,L0003954
                  INCLUDING SOURCE(S):
                                             L0003950
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                                                                                 L0003953
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                                                                                 L0003977
                        *** DISCRETE CARTESIAN RECEPTOR POINTS ***
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file:///C/...977GSBU)/Documents/HRA/Tracy%20Costco%20DepotV4%20-%20OP/Tracy%20Costco%20V3/Tracy%20Costco%20V3.ADO.txt[12/18/2023 11:20:47 AM]

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                                                                             9.30349
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                                                  631270.63
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  *** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-
977GSBU)\Documents\HRA\Tracy C ***
                                          12/13/23
*** AERMET - VERSION 18081 *** ***
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                                                                                      15:02:10
                                                                 PAGE 57
*** MODELOPTs: CONC ELEV RURAL ADJ U*
                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:
SLINE2
                  INCLUDING SOURCE(S):
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                                                                                              , L0003954
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                                                             4175723.88
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                                                                            2.06099
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  *** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-
977GSBU)\Documents\HRA\Tracy C ***
                                         12/13/23
*** AERMET - VERSION 18081 *** ***
                                                                                     15:02:10
                                                                PAGE 58
*** MODELOPTs: CONC ELEV RURAL ADJ U*
                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:
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                  INCLUDING SOURCE(S):
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                                                        , L0003967
                                                                    , L0003968
                                                                                , L0003969
                                                                                             , L0003970
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L0003971 ,L0003972 ,L0003973 ,L0003974 ,L0003975 ,L0003976 ,L0003977 ,... ,
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** CONC OF OTHER IN MICROGRAMS/M**3

X-COORD (	M) Y-COORI	O(M) CONO	X-CC	OORD (M)	Y-COORD (M)	CONC
631862 10	4175282.14	0.59225	631861.77	4175301 75	0.61536	
631861.43	4175321.37	0.63979	631861.09	4175340.98		
631860.75	4175360.60	0.69285	631860.41	4175380.21		
631860.07	4175399.83	0.75226	631859.73	4175419.44		
631859.40	4175439.06	0.81889	631859.06	4175458.67		
631858.72	4175478.29	0.89385	631858.38	4175497.90		
631858.04	4175517.52	0.97838	631857.70	4175537.13		
631857.37	4175556.75	1.07392	631857.03	4175576.36		
631856.69	4175595.98	1.18220	631856.35	4175615.59		
631856.01	4175635.21	1.30512	631855.67	4175654.82		
631855.33	4175674.44	1.44458	631855.00	4175694.05		
631854.66	4175713.67	1.60164	631854.32	4175733.28		
631853.98	4175752.90	1.77587	631853.64	4175772.51		
631853.30	4175792.13	1.96384	631852.97	4175811.74		
631852.63	4175831.36	2.15739	631852.29	4175850.97		
631851.95	4175870.59	2.34143	631851.61	4175890.20		
631851.27	4175909.82	2.49483	631850.94	4175929.43		
631850.60	4175949.05	2.59390	631850.26	4175968.66		
631830.54	4175988.13	2.75805	631811.15	4175987.98		
631791.77	4175987.83	3.08870	631772.39	4175987.67		
631753.00	4175987.52	3.50026	631733.62	4175987.37		
631714.24	4175987.22	4.02846	631694.85	4175987.07		
631675.47	4175986.92	4.73240	631656.09	4175986.77		
631636.70	4175986.62	5.72189	631617.32	4175986.46		
631597.94	4175986.31	7.21176	631578.55	4175986.16		
631559.17	4175986.01	9.73061	631539.79	4175985.86		
631520.40	4175985.71	14.93203	631501.02	4175985.5		
631481.64	4175985.40	31.10162	631462.25	4175985.2		
631442.87	4175985.10	64.31292	631423.49	4175984.9		
631404.10	4175984.80	66.31151	631384.72	4175984.6		
631365.34	4175984.50	65.47307	631345.95	4175984.3		
631326.57	4175984.19	64.03887	631307.19	4175984.0		
631287.80	4175983.89	62.60280	631050.63	4175100.5		
631050.63	4175200.50	0.45048	631050.63	4175300.50		
631050.63	4175400.50	0.77512	631050.63	4175500.50		
631050.63	4175600.50	1.58778	631050.63	4175700.50		
631050.63	4175800.50	4.56231	631050.63	4175900.50	10.91110	
631050.63	4176000.50	62.00392	631050.63	4176100.5	0 10.05587	
631150.63	4175100.50	0.37375	631150.63	4175200.50	0.47946	
631150.63	4175300.50	0.62291	631150.63	4175400.50		
	- VERSION 1	9191 *** ***	C:\Users\Smith\Drop			
977GSBU)\Docum			2/13/23		•	
*** AERMET - `	VERSION 180	81 *** ***			***	15:02:10
				PAGE	59	
*** MODEL OD		TENT DID AT	ADI IIV			

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:

SLINE2 ***

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INCLUDING SOURCE(S): L0003950 , L0003951 , L0003952 , L0003953 , L0003954 , L0003955 , L0003956 , L0003957 , L0003958 , L0003959 , L0003960 , L0003961 , L0003962 , L0003963 , L0003964 , L0003965 , L0003966 , L0003967 , L0003968 , L0003969 , L0003970 , L0003971 , L0003972 , L0003973 , L0003974 , L0003975 , L0003976 , L0003977 , . . . ,
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** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (	M) CONC	X-CC	OORD (M) Y-C	OORD (M)	CONC
631150.63 4	175500.50	1.12972	631150.63	4175600.50	1.64298	
			631150.63	4175800.50	4.77627	
		11.10074	631150.63	4176000.50	61.39626	
			631250.63	4175100.50	0.39186	
			631250.63	4175300.50	0.64325	
			631250.63	4175500.50	1.15072	
			631250.63	4175700.50	2.69703	
			631250.63		11.14320	
		59.23755	631250.63	4176100.50	9.77973	
631350.63 4			631350.63	4175200.50	0.51138	
	175300.50	0.65709	631350.63	4175400.50	0.85592	
631350.63 4	175500.50	1.19027	631350.63	4175600.50	1.73512	
631350.63 4	175700.50		631350.63	4175800.50	4.65350	
		10.84181	631350.63	4176000.50	56.44660	
			631450.63	4175100.50	0.41855	
			631450.63	4175300.50	0.66160	
631450.63 4	175400.50	0.88854	631450.63	4175500.50	1.20443	
631450.63 4	175600.50	1.69565	631450.63	4175700.50	2.55598	
631450.63 4			631450.63	4175900.50	9.59493	
631450.63 4	176000.50	45.73807	631450.63	4176100.50	7.10634	
			631550.63	4175200.50	0.52649	
631550.63 4	175300.50	0.66688	631550.63	4175400.50	0.88257	
631550.63 4	175500.50	1.16887	631550.63	4175600.50	1.61429	
631550.63 4			631550.63	4175800.50	3.71432	
631550.63 4	175900.50	6.66691	631550.63	4176000.50	10.24437	
631550.63 4			631650.63	4175100.50	0.42822	
631650.63 4	175200.50	0.52235	631650.63	4175300.50	0.67334	
631650.63 4	175400.50	0.85235	631650.63	4175500.50	1.10933	
631650.63 4	175600.50	1.49005	631650.63	4175700.50	2.07204	
631650.63 4	175800.50	2.99946	631650.63	4175900.50	4.46238	
631650.63 4	176000.50	5.26666	631650.63	4176100.50	3.68686	
631750.63 4	175100.50	0.43164	631750.63	4175200.50	0.53046	
631750.63 4	175300.50	0.64881	631750.63	4175400.50	0.80939	
	175500.50		631750.63	4175600.50	1.34338	
631750.63 4	175700.50	1.79012	631750.63	4175800.50	2.43551	
631750.63 4	175900.50	3.21808	631750.63	4176000.50	3.50527	
631750.63 4	176100.50	2.82094	631850.63	4175100.50	0.42908	
631850.63 4	175200.50	0.51101	631850.63	4175300.50	0.61759	
631850.63 4	175400.50		631850.63	4175500.50	0.94690	
	175600.50		631850.63	4175700.50	1.55591	
*** AERMOD -	VERSION 191	91 *** *** C:\Users	SSmith\Drop		SKTOP-	
977GSBU)\Docume	ents\HRA\Tracy	C *** 12/13/23	1	• \		
*** AERMET - VI					***	15:02:10
				PAGE 60		
*** MODEL ODE	COMO ELE	TO DID AT ADITIV				

*** MODELOPTs: CONC ELEV RURAL ADJ U*

#### *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SLINE2 *** , L0003951 , L0003952 , L0003953 INCLUDING SOURCE(S): L0003950 L0003954 L0003955 , L0003956 , L0003957 , L0003958 , L0003959 , L0003960 , L0003961 , L0003962 . L0003964 , L0003965 , L0003967 L0003963 , L0003966 , L0003968 , L0003969 , L0003970 , L0003976 L0003971 , L0003972 , L0003973 , L0003974 , L0003975 , L0003977 *** DISCRETE CARTESIAN RECEPTOR POINTS *** ** CONC OF OTHER IN MICROGRAMS/M**3 X-COORD (M) Y-COORD (M) **CONC** X-COORD (M) Y-COORD (M) **CONC** 631850.63 4175800.50 2.01430 631850.63 4175900.50 2.46727 4176000.50 2.59819 631850.63 4176100.50 2.23246 631850.63 631950.63 4175100.50 0.41372 631950.63 4175200.50 0.48810 0.70548 631950.63 4175300.50 0.58283 631950.63 4175400.50 631950.63 4175500.50 0.86749 631950.63 4175600.50 1.08379 631950.63 4175700.50 1.36522 631950.63 4175800.50 1.69295 631950.63 4175900.50 1.97383 631950.63 4176000.50 2.04320 0.39618 631950.63 4176100.50 1.82147 632050.63 4175100.50 632050.63 0.46310 632050.63 0.54760 4175200.50 4175300.50 632050.63 4175400.50 0.65645 632050.63 4175500.50 0.79868 632050.63 4175600.50 0.98284 632050.63 4175700.50 1.20721 632050.63 4175800.50 1.44471 632050.63 4175900.50 1.62963 4176000.50 4176100.50 1.52604 632050.63 1.67015 632050.63 *** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-977GSBU)\Documents\HRA\Tracy C *** 12/13/23 *** AERMET - VERSION 18081 *** *** 15:02:10 PAGE 61 *** MODELOPTS: CONC ELEV RURAL ADJ U* *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SLINE5 *** INCLUDING SOURCE(S): L0004262 , L0004263 , L0004264 , L0004265 . L0004266 L0004267 , L0004268 , L0004269 , L0004270 , L0004271 , L0004272 , L0004273 , L0004274 , L0004279 , L0004280 L0004275 , L0004276 , L0004277 , L0004278 , L0004281 , L0004282 L0004283 . L0004284 . L0004285 . L0004286 , L0004287 , L0004288 . L0004289 *** DISCRETE CARTESIAN RECEPTOR POINTS *** ** CONC OF OTHER IN MICROGRAMS/M**3 X-COORD (M) Y-COORD (M) **CONC** X-COORD (M) Y-COORD (M) **CONC**

632121.21	4174952.36	0.30877	632304.44	4174354.52	0.13344	
632192.15	4174956.32	0.31095	632420.62	4175510.15	0.73730	
632418.97	4175552.92	0.80072	631187.00	4175727.00	2.57581	
631166.00	4175729.00	2.59684	631121.00	4175719.00	2.44246	
631035.00	4174830.00	0.16741	631106.00	4174825.00	0.17403	
631937.00	4174528.00	0.16189	631322.00	4174522.00	0.10241	
629800.63	4173850.44	0.02176	630150.63	4173850.44	0.02305	
630500.63	4173850.44	0.02748	630850.63	4173850.44	0.04090	
631200.63	4173850.44	0.04096	631550.63	4173850.44	0.05664	
631900.63	4173850.44	0.06084	632250.63	4173850.44	0.07595	

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632600.63
                4173850.44
                              0.08373
                                                 632950.63
                                                            4173850.44
                                                                           0.08688
    633300.63
                4173850.44
                              0.08672
                                                 629800.63
                                                            4174200.44
                                                                           0.03012
    630150.63
                4174200.44
                              0.03732
                                                 630500.63
                                                            4174200.44
                                                                           0.04986
    630850.63
                4174200.44
                              0.05717
                                                 631200.63
                                                            4174200.44
                                                                           0.06264
                                                            4174200.44
    631550.63
                4174200.44
                              0.08587
                                                 631900.63
                                                                           0.10403
    632250.63
               4174200.44
                              0.11174
                                                 632600.63
                                                            4174200.44
                                                                           0.11538
    632950.63
                4174200.44
                              0.11563
                                                 633300.63
                                                            4174200.44
                                                                           0.10974
    629800.63
                4174550.44
                              0.05154
                                                 630150.63
                                                            4174550.44
                                                                           0.06164
    630500.63
                4174550.44
                              0.07905
                                                 630850.63
                                                            4174550.44
                                                                           0.09542
    631200.63
                4174550.44
                              0.11602
                                                 631550.63
                                                            4174550.44
                                                                           0.13366
                                                            4174550.44
                                                                           0.17032
                4174550.44
                              0.16772
    631900.63
                                                 632250.63
                              0.16754
    632600.63
                4174550.44
                                                 632950.63
                                                            4174550.44
                                                                           0.15828
    633300.63
                4174550.44
                              0.14673
                                                 629800.63
                                                            4174900.44
                                                                           0.06659
    630150.63
                4174900.44
                              0.08500
                                                 630500.63
                                                            4174900.44
                                                                           0.12524
    630850.63
                4174900.44
                              0.16803
                                                 631200.63
                                                            4174900.44
                                                                           0.21418
    631550.63
                4174900.44
                              0.26013
                                                 631900.63
                                                            4174900.44
                                                                           0.28509
    632250.63
                4174900.44
                              0.27975
                                                 632600.63
                                                            4174900.44
                                                                           0.25749
    632950.63
                4174900.44
                              0.23028
                                                 633300.63
                                                            4174900.44
                                                                           0.20830
    629800.63
                4175250.44
                              0.09483
                                                 630150.63
                                                            4175250.44
                                                                           0.15301
    630500.63
                4175250.44
                                                 630850.63
                                                            4175250.44
                              0.24835
                                                                           0.36660
    631200.63
                4175250.44
                              0.48522
                                                 631550.63
                                                            4175250.44
                                                                           0.53584
                4175250.44
                              0.56862
    631900.63
                                                 632250.63
                                                            4175250.44
                                                                           0.51316
    632600.63
               4175250.44
                              0.42497
                                                 632950.63
                                                            4175250.44
                                                                           0.35947
    633300.63
                4175250.44
                              0.30839
                                                 629800.63
                                                            4175600.44
                                                                           0.16302
    630150.63
                4175600.44
                              0.30270
                                                 630500.63
                                                            4175600.44
                                                                           0.67570
                4175600.44
                                                 631200.63
    630850.63
                              1.11127
                                                            4175600.44
                                                                           1.40095
    631550.63
               4175600.44
                              1.57105
                                                 631900.63
                                                            4175600.44
                                                                           1.43675
                                                 632600.63
                                                            4175600.44
                                                                           0.74552
    632250.63
               4175600.44
                              1.03282
    632950.63
                4175600.44
                              0.55973
                                                 633300.63
                                                            4175600.44
                                                                           0.43618
               4175950.44
    629800.63
                                                 630150.63
                              0.24531
                                                            4175950.44
                                                                           0.67888
  *** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-
977GSBU)\Documents\HRA\Tracy C ***
                                        12/13/23
                                                                             ***
*** AERMET - VERSION 18081 *** ***
                                                                                    15:02:10
                                                                PAGE 62
*** MODELOPTs: CONC ELEV RURAL ADJ U*
                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:
SLINE5 ***
                  INCLUDING SOURCE(S):
                                            L0004262
                                                       , L0004263
                                                                    , L0004264
                                                                                , L0004265
                                                                                            , L0004266
                                                                    , L0004272
         L0004267
                   , L0004268
                               , L0004269
                                            , L0004270
                                                        , L0004271
                                                                                , L0004273
                                                                                            , L0004274
         L0004275
                                                                                            , L0004282
                   , L0004276
                               , L0004277
                                            , L0004278
                                                        , L0004279
                                                                    , L0004280
                                                                                , L0004281
         L0004283
                   , L0004284
                               , L0004285
                                            , L0004286
                                                        , L0004287
                                                                    , L0004288
                                                                                , L0004289
                        *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                                                                                **
                     ** CONC OF OTHER IN MICROGRAMS/M**3
   X-COORD (M) Y-COORD (M)
                                    CONC
                                                       X-COORD (M) Y-COORD (M)
                                                                                        CONC
                              17.39917
                                                 630850.63
    630500.63
               4175950.44
                                                            4175950.44
                                                                           18.57065
    631200.63
                4175950.44
                              19.39060
                                                 631550.63
                                                             4175950.44
                                                                           18.81471
    631900.63
                                                 632250.63
                                                            4175950.44
               4175950.44
                              8.99473
                                                                           2.01664
```

632950.63

629800.63

630500.63

631200.63

4175950.44

4176300.44

4176300.44

4176300.44

0.70715

0.28839

1.69689

2.52239

4175950.44

4175950.44

4176300.44

4176300.44

1.07478

0.51095

0.78371

2.22615

632600.63

633300.63

630150.63

630850.63

```
631550.63
               4176300.44
                             2.45816
                                                631900.63
                                                           4176300.44
                                                                         1.69579
    632250.63
               4176300.44
                             1.08885
                                                632600.63
                                                           4176300.44
                                                                         0.76157
    632950.63
               4176300.44
                             0.56165
                                                633300.63
                                                           4176300.44
                                                                         0.43280
    629800.63
               4176650.44
                             0.29197
                                                630150.63
                                                           4176650.44
                                                                         0.50951
    630500.63
               4176650.44
                             0.74623
                                                630850.63
                                                           4176650.44
                                                                         0.91273
    631200.63
               4176650.44
                             0.95563
                                                631550.63
                                                           4176650.44
                                                                         0.88707
                                                           4176650.44
    631900.63
               4176650.44
                             0.71223
                                                632250.63
                                                                         0.54928
                                                632950.63
               4176650.44
                             0.43345
                                                           4176650.44
                                                                         0.35593
    632600.63
    633300.63
               4176650.44
                             0.29969
                                                629800.63
                                                           4177000.44
                                                                         0.25502
    630150.63
               4177000.44
                             0.35627
                                                630500.63
                                                           4177000.44
                                                                         0.45365
               4177000.44
                             0.51409
                                                631200.63
                                                           4177000.44
                                                                         0.52070
    630850.63
    631550.63
               4177000.44
                             0.48892
                                                631900.63
                                                           4177000.44
                                                                         0.41313
    632250.63
               4177000.44
                             0.34354
                                                632600.63
                                                           4177000.44
                                                                         0.28583
    632950.63
               4177000.44
                             0.24126
                                                633300.63
                                                           4177000.44
                                                                         0.20918
    629800.63
               4177350.44
                             0.20998
                                                630150.63
                                                           4177350.44
                                                                         0.26322
    630500.63
               4177350.44
                             0.30151
                                                630850.63
                                                           4177350.44
                                                                         0.33121
    631200.63
               4177350.44
                             0.32866
                                                631550.63
                                                           4177350.44
                                                                         0.31250
    631900.63
               4177350.44
                             0.27864
                                                632250.63
                                                           4177350.44
                                                                         0.24151
    632600.63
               4177350.44
                             0.20966
                                                632950.63
                                                           4177350.44
                                                                         0.18007
                                                           4175493.59
    633300.63
               4177350.44
                             0.15757
                                                631670.70
                                                                         1.08921
    631669.80
               4175641.41
                             1.83282
                                                631665.32
                                                           4175796.39
                                                                         3.85954
               4175826.85
                             4.85372
                                                631417.17
                                                           4175673.66
    631417.17
                                                                         2.09477
    631422.55
               4175484.63
                             1.02947
                                                631268.42
                                                           4175983.74
                                                                        56.10151
    631275.69
               4175523.99
                              1.08369
                                                631345.65
                                                           4175419.50
                                                                         0.79890
    631384.72
               4175441.30
                             0.87974
                                                631491.93
                                                           4175442.21
                                                                         0.91702
    631491.93
               4175414.95
                             0.84606
                                                631385.63
                                                           4175413.14
                                                                         0.78806
    631358.37
               4175395.87
                             0.75062
                                                631409.25
                                                           4175336.81
                                                                         0.64854
    631567.35
               4175235.96
                             0.51900
                                                631756.33
                                                           4175028.80
                                                                         0.35014
    631807.22
               4175003.36
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  *** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-
977GSBU)\Documents\HRA\Tracy C ***
                                       12/13/23
*** AERMET - VERSION 18081 *** ***
                                                                                  15:02:10
                                                              PAGE 63
*** MODELOPTs: CONC ELEV RURAL ADJ U*
               *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:
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                 INCLUDING SOURCE(S):
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  *** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-
977GSBU)\Documents\HRA\Tracy C ***
                                        12/13/23
*** AERMET - VERSION 18081 *** ***
                                                                                   15:02:10
                                                               PAGE 64
*** MODELOPTS: CONC ELEV RURAL ADJ U*
                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:
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                        *** DISCRETE CARTESIAN RECEPTOR POINTS ***
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                                         12/13/23
977GSBU)\Documents\HRA\Tracy C ***
*** AERMET - VERSION 18081 *** ***
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                                                                                     15:02:10
                                                                 PAGE 65
*** MODELOPTs: CONC ELEV RURAL ADJ U*
                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:
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                        *** DISCRETE CARTESIAN RECEPTOR POINTS ***
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  *** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-
977GSBU)\Documents\HRA\Tracy C ***
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*** AERMET - VERSION 18081 *** ***
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*** MODELOPTs: CONC ELEV RURAL ADJ U*
                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:
SLINE5
        ***
                  INCLUDING SOURCE(S):
                                              L0004262
                                                         , L0004263
                                                                     , L0004264
                                                                                  L0004265
                                                                                              , L0004266
                    , L0004268
                                                                                  , L0004273
         L0004267
                                , L0004269
                                             , L0004270
                                                         , L0004271
                                                                     , L0004272
                                                                                              , L0004274
                    , L0004276
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                                                                     , L0004280
         L0004275
                                             , L0004278
                                                         , L0004279
                                                                                  , L0004281
                                                                                              , L0004282
                                , L0004285
         L0004283
                    , L0004284
                                             , L0004286
                                                         , L0004287
                                                                     , L0004288
                                                                                  , L0004289
                        *** DISCRETE CARTESIAN RECEPTOR POINTS ***
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*** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-

977GSBU)\Documents\HRA\Tracy C *** 12/13/23 *** AERMET - VERSION 18081 *** ***

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*** MODELOPTs: CONC ELEV RURAL ADJ U*

*** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:

STCK1

INCLUDING SOURCE(S): STCK1

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3

X-COORD (M) Y-COORD (M) **CONC** X-COORD (M) Y-COORD (M) **CONC** 0.49593 632304.44 4174354.52 632121.21 4174952.36 0.15476 632192.15 4174956.32 0.55063 632420.62 4175510.15 2.23876 632418.97 2.61109 631187.00 4175727.00 4175552.92 0.54907 631166.00 4175729.00 0.52146 631121.00 4175719.00 0.46375 631035.00 4174830.00 0.11863 631106.00 4174825.00 0.12601 631937.00 4174528.00 0.15462 631322.00 4174522.00 0.09786 4173850.44 4173850.44 0.01999 629800.63 0.01655 630150.63 630500.63 4173850.44 0.02597 630850.63 4173850.44 0.03992 631200.63 4173850.44 0.04119 631550.63 4173850.44 0.04371 631900.63 4173850.44 0.04948 632250.63 4173850.44 0.07340 632950.63 632600.63 4173850.44 0.08506 4173850.44 0.10102 633300.63 4173850.44 0.11322 629800.63 4174200.44 0.02308 630150.63 4174200.44 0.02953 630500.63 4174200.44 0.04123 630850.63 4174200.44 0.05304 631200.63 4174200.44 0.06259 4174200.44 631900.63 4174200.44 631550.63 0.06937 0.08746 632250.63 4174200.44 0.11844 632600.63 4174200.44 0.13816 632950.63 4174200.44 0.16085 633300.63 4174200.44 0.15690 629800.63 4174550.44 0.03839 630150.63 4174550.44 0.04553 630500.63 4174550.44 0.05961 630850.63 4174550.44 0.07431 631200.63 4174550.44 0.10276 631550.63 4174550.44 0.11277 631900.63 4174550.44 0.15267 632250.63 4174550.44 0.21549 632600.63 4174550.44 0.26380 632950.63 4174550.44 0.25647

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633300.63
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                              0.05938
                                                  630500.63
                                                             4174900.44
                                                                            0.08433
    630850.63
                4174900.44
                               0.11085
                                                  631200.63
                                                             4174900.44
                                                                            0.15314
    631550.63
                4174900.44
                              0.21403
                                                  631900.63
                                                             4174900.44
                                                                            0.30525
                                                                            0.51947
    632250.63
                4174900.44
                               0.49776
                                                  632600.63
                                                             4174900.44
    632950.63
                4174900.44
                               0.40762
                                                  633300.63
                                                             4174900.44
                                                                            0.36013
    629800.63
                4175250.44
                               0.05267
                                                  630150.63
                                                             4175250.44
                                                                            0.07934
    630500.63
                4175250.44
                              0.11829
                                                  630850.63
                                                             4175250.44
                                                                            0.17104
    631200.63
                4175250.44
                               0.26267
                                                  631550.63
                                                             4175250.44
                                                                            0.45030
    631900.63
                4175250.44
                              0.97621
                                                  632250.63
                                                             4175250.44
                                                                            1.38522
                4175250.44
                                                             4175250.44
    632600.63
                              0.99426
                                                  632950.63
                                                                            0.77625
    633300.63
                4175250.44
                              0.59866
                                                  629800.63
                                                             4175600.44
                                                                            0.06698
    630150.63
                4175600.44
                              0.09354
                                                  630500.63
                                                             4175600.44
                                                                            0.13974
    630850.63
                4175600.44
                              0.22943
                                                  631200.63
                                                             4175600.44
                                                                            0.47770
    631550.63
                4175600.44
                               1.50501
                                                  631900.63
                                                             4175600.44
                                                                            1.98906
    632250.63
                4175600.44
                                                  632600.63
                                                             4175600.44
                                                                            2.38452
                               3.67207
    632950.63
                4175600.44
                               1.34917
                                                  633300.63
                                                             4175600.44
                                                                            0.86433
    629800.63
                4175950.44
                              0.06868
                                                  630150.63
                                                             4175950.44
                                                                            0.09410
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                                         12/13/23
*** AERMET - VERSION 18081 *** ***
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*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:

STCK1 ***

INCLUDING SOURCE(S): STCK1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

X-COORD (	M) Y-COORD	(M) CONC	X-C0	OORD (M) Y-	COORD (M)	CONC
630500.63	4175950.44	0.15181	630850.63	4175950.44	0.27296	
631200.63	4175950.44	0.65344	631550.63	4175950.44	1.03187	
631900.63	4175950.44	4.57844	632250.63	4175950.44	3.52551	
632600.63	4175950.44	2.28549	632950.63	4175950.44	1.32394	
633300.63	4175950.44	0.84956	629800.63	4176300.44	0.07792	
630150.63	4176300.44	0.11396	630500.63	4176300.44	0.18752	
630850.63	4176300.44	0.35818	631200.63	4176300.44	0.72395	
631550.63	4176300.44	1.08576	631900.63	4176300.44	1.05076	
632250.63	4176300.44	0.96322	632600.63	4176300.44	0.83358	
632950.63	4176300.44	0.73768	633300.63	4176300.44	0.57377	
629800.63	4176650.44	0.09264	630150.63	4176650.44	0.14238	
630500.63	4176650.44	0.22841	630850.63	4176650.44	0.36923	
631200.63	4176650.44	0.53167	631550.63	4176650.44	0.58607	
631900.63	4176650.44	0.59261	632250.63	4176650.44	0.56240	
632600.63	4176650.44	0.49830	632950.63	4176650.44	0.41304	
633300.63	4176650.44	0.35825	629800.63	4177000.44	0.10754	
630150.63	4177000.44	0.15708	630500.63	4177000.44	0.22441	
630850.63	4177000.44	0.30977	631200.63	4177000.44	0.35682	
631550.63	4177000.44	0.40543	631900.63	4177000.44	0.38788	
632250.63	4177000.44	0.35902	632600.63	4177000.44	0.34958	
632950.63	4177000.44	0.29737	633300.63	4177000.44	0.25192	
629800.63	4177350.44	0.10985	630150.63	4177350.44	0.14940	

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630500.63
               4177350.44
                              0.19118
                                                  630850.63
                                                             4177350.44
                                                                            0.23516
    631200.63
               4177350.44
                               0.25748
                                                  631550.63
                                                             4177350.44
                                                                            0.28839
                                                                            0.26383
    631900.63
               4177350.44
                              0.27432
                                                  632250.63
                                                             4177350.44
    632600.63
                4177350.44
                              0.24331
                                                  632950.63
                                                             4177350.44
                                                                            0.22790
               4177350.44
                              0.19451
                                                  631670.70
                                                             4175493.59
                                                                            1.10909
    633300.63
    631669.80
               4175641.41
                               3.19861
                                                  631665.32
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                                                                            6.51243
    631417.17
                                                  631417.17
                4175826.85
                               1.41493
                                                             4175673.66
                                                                            0.96271
    631422.55
                4175484.63
                              0.57722
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                                                             4175983.74
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    631275.69
               4175523.99
                              0.52174
                                                  631345.65
                                                             4175419.50
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    631384.72
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                              0.42276
                                                  631491.93
                                                             4175442.21
                                                                            0.63335
                                                                            0.41834
    631491.93
               4175414.95
                              0.56231
                                                  631385.63
                                                             4175413.14
    631358.37
                4175395.87
                              0.48573
                                                  631409.25
                                                             4175336.81
                                                                            0.42775
    631567.35
               4175235.96
                              0.48743
                                                  631756.33
                                                             4175028.80
                                                                            0.31884
    631807.22
               4175003.36
                              0.32412
                                                  631867.18
                                                             4174987.91
                                                                            0.35133
    631849.92
               4175988.28
                               3.71093
                                                  631268.74
                                                             4175963.75
                                                                            0.81570
    631269.05
               4175943.76
                              0.80738
                                                  631269.37
                                                             4175923.77
                                                                            0.80117
    631269.68
               4175903.78
                               0.79652
                                                  631270.00
                                                             4175883.79
                                                                            0.75818
    631270.32
               4175863.81
                               0.75825
                                                  631270.63
                                                             4175843.82
                                                                            0.80128
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*** MODELOPTs: CONC ELEV RURAL ADJ U*

*** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:

STCK1

INCLUDING SOURCE(S): STCK1

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

X-COORD (	M) Y-COORD	O(M) CONC	X-C0	OORD (M)	Y-COORD (M)	CONC
 631270.95	4175823.83	0.80407	631271.26	4175803.84	0.75913	
631271.58	4175783.85	0.75059	631271.90	4175763.86	0.73349	
631272.21	4175743.87	0.71577	631272.53	4175723.88	0.70499	
631272.85	4175703.89	0.69094	631273.16	4175683.90	0.66513	
631273.48	4175663.91	0.64300	631273.79	4175643.92	0.62403	
631274.11	4175623.94	0.60782	631274.43	4175603.95	0.58096	
631274.74	4175583.96	0.56319	631275.06	4175563.97	0.53852	
631275.37	4175543.98	0.52197	631285.68	4175509.06	0.52840	
631295.68	4175494.14	0.53152	631305.67	4175479.21	0.53742	
631315.67	4175464.28	0.54073	631325.66	4175449.35	0.53396	
631335.66	4175434.43	0.51292	631358.67	4175426.77	0.47118	
631371.70	4175434.03	0.43368	631402.59	4175441.45	0.45615	
631420.46	4175441.60	0.47519	631438.33	4175441.76	0.51085	
631456.19	4175441.91	0.55285	631474.06	4175442.06	0.58965	
631491.93	4175428.58	0.59770	631474.21	4175414.65	0.53060	
631456.50	4175414.35	0.49189	631438.78	4175414.05	0.46710	
631421.06	4175413.74	0.43414	631403.35	4175413.44	0.39871	
631372.00	4175404.51	0.42872	631371.09	4175381.11	0.46990	
631383.81	4175366.34	0.45670	631396.53	4175351.58	0.44068	
631425.06	4175326.73	0.41518	631440.87	4175316.64	0.41567	
631456.68	4175306.56	0.41144	631472.49	4175296.47	0.41638	
631488.30	4175286.39	0.42445	631504.11	4175276.30	0.42291	

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631519.92
               4175266.22
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                                                 631535.73
                                                            4175256.13
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    631551.54
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                              0.47565
                                                 631579.95
                                                            4175222.15
                                                                           0.53462
    631592.55
                4175208.34
                              0.55183
                                                 631605.15
                                                            4175194.53
                                                                           0.51331
    631617.74
               4175180.72
                              0.45830
                                                 631630.34
                                                            4175166.91
                                                                           0.43546
                                                 631655.54
               4175153.10
                                                            4175139.29
                                                                           0.40055
    631642.94
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    631668.14
               4175125.47
                              0.38456
                                                 631680.74
                                                            4175111.66
                                                                           0.37226
    631693.34
               4175097.85
                              0.36020
                                                 631705.94
                                                            4175084.04
                                                                           0.35014
    631718.53
               4175070.23
                              0.34145
                                                 631731.13
                                                            4175056.42
                                                                           0.33263
    631743.73
               4175042.61
                              0.32526
                                                 631773.29
                                                            4175020.32
                                                                           0.32007
               4175011.84
    631790.26
                              0.32227
                                                 631822.21
                                                            4174999.50
                                                                           0.32994
    631837.20
                                                 631852.19
               4174995.64
                              0.33665
                                                            4174991.77
                                                                           0.34310
    631866.84
               4175007.53
                              0.36785
                                                 631866.50
                                                            4175027.14
                                                                           0.38751
    631866.16
               4175046.76
                              0.41086
                                                 631865.83
                                                            4175066.37
                                                                           0.43465
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               4175085.99
                              0.45970
                                                 631865.15
                                                            4175105.60
                                                                           0.48632
                                                                           0.54556
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                              0.51502
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                                                            4175144.83
    631864.13
               4175164.45
                              0.57914
                                                 631863.80
                                                            4175184.06
                                                                           0.61776
    631863.46
               4175203.68
                              0.66266
                                                 631863.12
                                                            4175223.29
                                                                           0.76152
    631862.78
               4175242.91
                              0.84564
                                                 631862.44
                                                            4175262.52
                                                                           0.90109
  *** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-
977GSBU)\Documents\HRA\Tracy C ***
                                         12/13/23
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*** AERMET - VERSION 18081 *** ***
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*** MODELOPTs: CONC ELEV RURAL ADJ U*

*** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:

STCK1

INCLUDING SOURCE(S): STCK1

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

X-COORD (	M) Y-COORI	O(M) CONC	X-CO	OORD (M)	Y-COORD (M)	CONC
 631862.10	4175282.14	0.93585	631861.77	4175301.75	0.74773	
631861.43	4175321.37	0.67831	631861.09	4175340.98	0.70364	
631860.75	4175360.60	0.73156	631860.41	4175380.21	0.80345	
631860.07	4175399.83	0.84048	631859.73	4175419.44	0.88005	
631859.40	4175439.06	0.98874	631859.06	4175458.67	1.04414	
631858.72	4175478.29	1.09569	631858.38	4175497.90	1.21793	
631858.04	4175517.52	1.25698	631857.70	4175537.13	1.40058	
631857.37	4175556.75	1.55106	631857.03	4175576.36	1.78555	
631856.69	4175595.98	2.02102	631856.35	4175615.59	2.26211	
631856.01	4175635.21	2.42842	631855.67	4175654.82	2.58859	
631855.33	4175674.44	2.77361	631855.00	4175694.05	3.59336	
631854.66	4175713.67	4.78249	631854.32	4175733.28	6.27314	
631853.98	4175752.90	6.78989	631853.64	4175772.51	11.56215	
631853.30	4175792.13	29.84603	631852.97	4175811.74	38.85379	
631852.63	4175831.36	27.50098	631852.29	4175850.97	7 17.04760	
631851.95	4175870.59	12.42407	631851.61	4175890.20	10.03213	
631851.27	4175909.82	7.93468	631850.94	4175929.43	7.19444	
631850.60	4175949.05	6.20890	631850.26	4175968.66	4.61454	
631830.54	4175988.13	3.87490	631811.15	4175987.98	4.12203	
631791.77	4175987.83	4.41383	631772.39	4175987.67	4.47241	
631753.00	4175987.52	4.03195	631733.62	4175987.37	3.45718	
631714.24	4175987.22	2.86755	631694.85	4175987.07	2.45466	

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631675.47
                4175986.92
                              2.30249
                                                  631656.09
                                                             4175986.77
                                                                            1.92875
    631636.70
                4175986.62
                               1.59003
                                                  631617.32
                                                             4175986.46
                                                                            1.62618
    631597.94
                                                                            1.86703
                4175986.31
                               1.45606
                                                  631578.55
                                                             4175986.16
    631559.17
                4175986.01
                              2.17527
                                                  631539.79
                                                             4175985.86
                                                                            2.66244
                4175985.71
                               2.53450
                                                  631501.02
                                                             4175985.56
                                                                            2.34537
    631520.40
    631481.64
                4175985.40
                              2.09911
                                                  631462.25
                                                             4175985.25
                                                                            1.76219
    631442.87
                                                  631423.49
                                                             4175984.95
                4175985.10
                               1.60461
                                                                            1.47631
    631404.10
                4175984.80
                                                  631384.72
                                                             4175984.65
                                                                            1.26078
                               1.36351
    631365.34
                4175984.50
                               1.16816
                                                  631345.95
                                                             4175984.35
                                                                            1.08379
    631326.57
                4175984.19
                               1.00784
                                                  631307.19
                                                             4175984.04
                                                                            0.93984
    631287.80
                                                                            0.17312
               4175983.89
                              0.87830
                                                  631050.63
                                                             4175100.50
    631050.63
                4175200.50
                              0.20027
                                                  631050.63
                                                             4175300.50
                                                                            0.23308
    631050.63
                4175400.50
                              0.26722
                                                  631050.63
                                                             4175500.50
                                                                            0.30328
    631050.63
                4175600.50
                              0.33745
                                                  631050.63
                                                             4175700.50
                                                                            0.37537
    631050.63
                4175800.50
                              0.40181
                                                  631050.63
                                                             4175900.50
                                                                            0.41159
                4176000.50
                                                  631050.63
                                                             4176100.50
                                                                            0.48098
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                              0.42981
    631150.63
                4175100.50
                               0.19232
                                                  631150.63
                                                             4175200.50
                                                                            0.22548
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                4175300.50
                               0.26839
                                                  631150.63
                                                             4175400.50
                                                                            0.31790
  *** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-
977GSBU)\Documents\HRA\Tracy C ***
                                         12/13/23
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*** AERMET - VERSION 18081 *** ***
                                                                                      15:02:10
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*** MODELOPTs: CONC ELEV RURAL ADJ U*

*** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:

STCK1

INCLUDING SOURCE(S): STCK1

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

X-COORD (	M) Y-COORD	(M) CONC	X-C0	OORD (M)	Y-COORD (M)	CONC
 631150.63	4175500.50	0.36866	631150.63	4175600.50	0.42038	
631150.63	4175700.50	0.48353	631150.63	4175800.50	0.53004	
631150.63	4175900.50	0.56089	631150.63	4176000.50	0.58310	
631150.63	4176100.50	0.62580	631250.63	4175100.50	0.21755	
631250.63	4175200.50	0.25799	631250.63	4175300.50	0.31152	
631250.63	4175400.50	0.38239	631250.63	4175500.50	0.46102	
631250.63	4175600.50	0.54003	631250.63	4175700.50	0.64164	
631250.63	4175800.50	0.75236	631250.63	4175900.50	0.74625	
631250.63	4176000.50	0.78340	631250.63	4176100.50	0.82124	
631350.63	4175100.50	0.24982	631350.63	4175200.50	0.30139	
631350.63	4175300.50	0.37743	631350.63	4175400.50	0.48039	
631350.63	4175500.50	0.55927	631350.63	4175600.50	0.71942	
631350.63	4175700.50	0.91556	631350.63	4175800.50	1.03056	
631350.63	4175900.50	1.07401	631350.63	4176000.50	1.10739	
631350.63	4176100.50	1.10892	631450.63	4175100.50	0.29001	
631450.63	4175200.50	0.35729	631450.63	4175300.50	0.42074	
631450.63	4175400.50	0.45932	631450.63	4175500.50	0.68847	
631450.63	4175600.50	0.92977	631450.63	4175700.50	1.20297	
631450.63	4175800.50	1.49614	631450.63	4175900.50	1.80443	
631450.63	4176000.50	1.64534	631450.63	4176100.50	1.50349	
631550.63	4175100.50	0.32911	631550.63	4175200.50	0.44050	
631550.63	4175300.50	0.30567	631550.63	4175400.50	0.57287	

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631550.63
               4175500.50
                             0.99128
                                                631550.63
                                                           4175600.50
                                                                         1.50517
    631550.63
               4175700.50
                             2.17011
                                                631550.63
                                                           4175800.50
                                                                         1.76049
    631550.63
               4175900.50
                             0.86253
                                                631550.63
                                                           4176000.50
                                                                         2.72599
    631550.63
               4176100.50
                              1.94706
                                                631650.63
                                                           4175100.50
                                                                         0.35235
               4175200.50
                                                                         0.37046
    631650.63
                             0.55595
                                                631650.63
                                                           4175300.50
    631650.63
               4175400.50
                             0.64611
                                                631650.63
                                                           4175500.50
                                                                         1.17768
    631650.63
               4175600.50
                             2.31053
                                                631650.63
                                                           4175700.50
                                                                         4.28201
    631650.63
               4175800.50
                             5.15708
                                                631650.63
                                                           4175900.50
                                                                         1.17565
    631650.63
               4176000.50
                              1.92619
                                                631650.63
                                                           4176100.50
                                                                         2.19450
    631750.63
               4175100.50
                             0.38173
                                                631750.63
                                                           4175200.50
                                                                         0.58448
    631750.63
               4175300.50
                             0.31541
                                                631750.63
                                                           4175400.50
                                                                         0.49412
               4175500.50
                                                           4175600.50
                                                                         1.67297
    631750.63
                             0.84024
                                                631750.63
    631750.63
               4175700.50
                             4.63154
                                                631750.63
                                                           4175800.50
                                                                         19.42071
    631750.63
               4175900.50
                             1.46902
                                                631750.63
                                                           4176000.50
                                                                         3.73740
    631750.63
                             2.21436
                                                631850.63
               4176100.50
                                                           4175100.50
                                                                         0.46328
    631850.63
               4175200.50
                             0.64297
                                                631850.63
                                                           4175300.50
                                                                         0.62273
    631850.63
               4175400.50
                             0.82615
                                                631850.63
                                                           4175500.50
                                                                         1.16659
    631850.63
               4175600.50
                              1.84504
                                                631850.63
                                                           4175700.50
                                                                         3.72198
  *** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-
977GSBU)\Documents\HRA\Tracy C ***
                                       12/13/23
                                                                           ***
*** AERMET - VERSION 18081 *** ***
                                                                                  15:02:10
                                                              PAGE 72
*** MODELOPTs: CONC ELEV RURAL ADJ U*
               *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:
STCK1
                                           STCK1
                 INCLUDING SOURCE(S):
                       *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                     ** CONC OF OTHER IN MICROGRAMS/M**3
   X-COORD (M) Y-COORD (M)
                                    CONC
                                                      X-COORD (M) Y-COORD (M)
                                                                                      CONC
    631850.63
                             36.87385
                                                631850.63
                                                           4175900.50
               4175800.50
                                                                          8.76634
                                                                         2.01659
    631850.63
               4176000.50
                             3.41086
                                                631850.63
                                                           4176100.50
    631950.63
               4175100.50
                             0.58014
                                                631950.63
                                                           4175200.50
                                                                         0.81167
                                                631950.63
    631950.63
               4175300.50
                              1.48086
                                                           4175400.50
                                                                         1.19126
    631950.63
               4175500.50
                              1.40662
                                                631950.63
                                                           4175600.50
                                                                         2.14141
    631950.63
               4175700.50
                             5.94142
                                                631950.63
                                                           4175800.50
                                                                        26.67452
               4175900.50
                                                           4176000.50
    631950.63
                                                631950.63
                                                                         2.96445
                             6.03139
    631950.63
               4176100.50
                              1.84447
                                                632050.63
                                                           4175100.50
                                                                         0.70580
    632050.63
               4175200.50
                              1.01380
                                                632050.63
                                                           4175300.50
                                                                         1.52902
    632050.63
               4175400.50
                             2.60397
                                                632050.63
                                                           4175500.50
                                                                         2.64758
    632050.63
               4175600.50
                             3.75586
                                                632050.63
                                                           4175700.50
                                                                         8.33288
    632050.63
               4175800.50
                             17.61676
                                                632050.63
                                                           4175900.50
                                                                          5.88700
    632050.63
               4176000.50
                             2.49303
                                                632050.63
                                                           4176100.50
                                                                         1.71014
  *** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-
977GSBU)\Documents\HRA\Tracy C ***
                                       12/13/23
*** AERMET - VERSION 18081 *** ***
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                                                                                  15:02:10
                                                              PAGE 73
*** MODELOPTs: CONC ELEV RURAL ADJ U*
               *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:
STCK10 ***
                 INCLUDING SOURCE(S):
                                           STCK10
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** CONC OF OTHER IN MICROGRAMS/M**3

X-COORD (M) Y-COORD (M)	CONC X-CO	OORD (M)	Y-COORD (M	) CONC
632121.21 4174952.36 1.44828	632304.44	4174354.5	2 0.37338	
632192.15 4174956.32 1.36912		4175510.1		
632418.97 4175552.92 2.28358		4175727.0		
631166.00 4175729.00 1.46579		4175719.0		
631035.00 4174830.00 0.27169		4174825.0		
631937.00 4174528.00 0.48260		4174522.0		
629800.63 4174326.00 0.448260		4173850.4		
630500.63 4173850.44 0.03784		4173850.4		
631200.63 4173850.44 0.05710		4173850.4		
631900.63 4173850.44 0.09965		4173850.4		
632600.63 4173850.44 0.16107		4173850.4		
633300.63 4173850.44 0.15011	629800.63	4174200.4		
630150.63 4174200.44 0.04557		4174200.4		
630850.63 4174200.44 0.08762		4174200.4		
631550.63 4174200.44 0.08762		4174200.4		
632250.63 4174200.44 0.12482		4174200.4		
632250.63 4174200.44 0.26250		4174200.4		
		4174550.4		
630500.63 4174550.44 0.10287		4174550.4		
631200.63 4174550.44 0.20136		4174550.4		
631900.63 4174550.44 0.49634		4174550.4		
632600.63 4174550.44 0.44983	632950.63	4174550.4		
633300.63 4174550.44 0.34441	629800.63	4174900.4		
630150.63 4174900.44 0.09546		4174900.4		
630850.63 4174900.44 0.24000		4174900.4		
631550.63 4174900.44 0.77675		4174900.4		
632250.63 4174900.44 1.14887		4174900.4		
632950.63 4174900.44 0.70302		4174900.4		
629800.63 4175250.44 0.07791	630150.63	4175250.4		
630500.63 4175250.44 0.20513	630850.63	4175250.4		
631200.63 4175250.44 1.16602		4175250.4		
631900.63 4175250.44 5.20478	632250.63	4175250.4		
632600.63 4175250.44 1.82562	632950.63	4175250.4		
633300.63 4175250.44 0.68575	629800.63	4175600.4		
630150.63 4175600.44 0.13528	630500.63	4175600.4		
630850.63 4175600.44 0.47930		4175600.4		
631550.63 4175600.44 1.89391	631900.63	4175600.4		
632250.63 4175600.44 2.27223	632600.63	4175600.4		
632950.63 4175600.44 0.95066		4175600.4		
629800.63 4175950.44 0.10660		4175950.4		
*** AERMOD - VERSION 19191 ***		pbox\My PC	C (DESKTOP-	
977GSBU)\Documents\HRA\Tracy C ***	12/13/23			
*** AERMET - VERSION 18081 *** **	**		***	15:02:10
		PAGE	74	

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:

STCK10 ***

INCLUDING SOURCE(S): STCK10 ,

** CONC OF OTHER IN MICROGRAMS/M**3

X-COORD (	M) Y-COORD	(M) CO	NC X-C	OORD (M)	Y-COORD (M	) CONC
630500.63	4175950.44	0.29965	630850.63	4175950.44	0.60923	
631200.63	4175950.44	1.00295	631550.63	4175950.44		
631200.63	4175950.44	0.94267	632250.63	4175950.44		
632600.63	4175950.44	0.94207	632950.63	4175950.44		
633300.63	4175950.44	0.09939	629800.63	4176300.44		
630150.63		0.46380	630500.63	4176300.44		
	4176300.44 4176300.44					
630850.63		0.49668	631200.63	4176300.44		
631550.63	4176300.44	0.54982	631900.63	4176300.44		
632250.63	4176300.44	0.46897	632600.63	4176300.44		
632950.63	4176300.44	0.35528	633300.63	4176300.44		
629800.63	4176650.44	0.14241	630150.63	4176650.44		
630500.63	4176650.44	0.28951	630850.63	4176650.44		
631200.63	4176650.44	0.38534	631550.63	4176650.44		
631900.63	4176650.44	0.34661	632250.63	4176650.44		
632600.63	4176650.44	0.30064	632950.63	4176650.44		
633300.63	4176650.44	0.21784	629800.63	4177000.44		
630150.63	4177000.44	0.18330	630500.63	4177000.44		
630850.63	4177000.44	0.25155	631200.63	4177000.44		
631550.63	4177000.44	0.27717	631900.63	4177000.44		
632250.63	4177000.44	0.23099	632600.63	4177000.44		
632950.63	4177000.44	0.19897	633300.63	4177000.44		
629800.63	4177350.44	0.12709	630150.63	4177350.44	0.15303	
630500.63	4177350.44	0.17122	630850.63	4177350.44	0.19301	
631200.63	4177350.44	0.21372	631550.63	4177350.44	0.20602	
631900.63	4177350.44	0.20054	632250.63	4177350.44	0.17510	
632600.63	4177350.44	0.17360	632950.63	4177350.44	0.16176	
633300.63	4177350.44	0.13909	631670.70	4175493.59	5.64342	
631669.80	4175641.41	2.40764	631665.32	4175796.39	1.12102	
631417.17	4175826.85	0.96338	631417.17	4175673.66	1.58456	
631422.55	4175484.63	3.82226	631268.42	4175983.74	0.94483	
631275.69	4175523.99	2.42237	631345.65	4175419.50	3.45042	
631384.72	4175441.30	4.04927	631491.93	4175442.21	11.20125	
631491.93	4175414.95	17.40776	631385.63	4175413.14	4 4.92784	
631358.37	4175395.87	4.31817	631409.25	4175336.81	6.74573	
631567.35	4175235.96	3.98491	631756.33	4175028.80	2.44390	
631807.22	4175003.36	2.24926	631867.18	4174987.91	2.09829	
631849.92	4175988.28	0.87446	631268.74	4175963.75	0.98866	
631269.05	4175943.76	1.03705	631269.37	4175923.77		
	4175903.78	1.14856	631270.00			
631270.32	4175863.81	1.29026	631270.63			
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977GSBU)\Docum			12/13/23	. , ,		
*** AERMET -					***	15:02:10
	11. 100			PAGE	75	·- ·
*** MODEL OD	r. COMO EI	DAT DIDAT	ADI II*			

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:

STCK10 ***

INCLUDING SOURCE(S): STCK10

** CONC OF OTHER IN MICROGRAMS/M**3

X-COORD (	M) Y-COORD	(M) CO	ONC	X-CC	OORD (M) Y	-COORD (M)	) CONC
631270.95	4175823.83	1.46090	63127	 '1 26	4175803.84	1.57203	
631271.58	4175783.85	1.69861	63127		4175763.86	1.54164	
631272.21	4175743.87	1.67509	63127		4175723.88	1.86156	
631272.85	4175703.89	1.45570	63127		4175683.90	1.58949	
631273.48	4175663.91	1.66036	63127	3.79	4175643.92	1.88599	
631274.11	4175623.94	1.56278	63127	4.43	4175603.95	1.75879	
631274.74	4175583.96	1.99536	63127	5.06	4175563.97	2.10739	
631275.37	4175543.98	2.24094	63128	5.68	4175509.06	2.07158	
631295.68	4175494.14	2.34773	63130	5.67	4175479.21	2.66768	
631315.67	4175464.28	2.96171	63132		4175449.35	3.22614	
631335.66	4175434.43	3.57169	63135		4175426.77	3.63767	
631371.70	4175434.03	3.91056	63140		4175441.45	4.81071	
631420.46	4175441.60	5.36200	63143		4175441.76	4.89350	
631456.19	4175441.91	6.14684	63147		4175442.06	8.59269	
631491.93	4175428.58	13.56721	63147		4175414.65	12.65246	
631456.50	4175414.35	9.16876	63143		4175414.05	6.87432	
631421.06	4175413.74	6.85556	63140		4175413.44	5.67834	
631372.00	4175404.51	4.56311	63137		4175381.11	4.93808	
631383.81	4175366.34	5.40403	63139		4175351.58	6.08964	
631425.06 631456.68	4175326.73	7.61138	63144 63147		4175316.64 4175296.47	8.92423 7.75412	
631488.30	4175306.56 4175286.39	8.42922 7.97730	63150		4175276.30	7.73412	
631519.92	4175266.22	7.21615	63153		4175256.13	6.22296	
631551.54	4175246.05	4.96332	63157		4175222.15	4.17933	
631592.55	4175208.34	3.65179	63160		4175194.53	3.90209	
631617.74	4175180.72	3.52142	63163		4175166.91	4.15349	
631642.94	4175153.10	3.86909	63165		4175139.29	3.98270	
631668.14	4175125.47	3.71819	63168		4175111.66	3.46131	
631693.34	4175097.85	3.22831	63170		4175084.04	3.03186	
631718.53	4175070.23	2.86517	63173		4175056.42	2.71468	
631743.73	4175042.61	2.57555	63177		4175020.32	2.38352	
631790.26	4175011.84	2.32032	63182	2.21	4174999.50	2.21612	
631837.20	4174995.64	2.18020	63185	2.19	4174991.77	2.14055	
631866.84	4175007.53	2.22602	63186	6.50	4175027.14	2.36670	
631866.16	4175046.76	2.51864	63186	5.83	4175066.37	2.67308	
631865.49		2.82387	63186			2.98205	
	4175125.22	3.15144			4175144.83	3.34027	
	4175164.45	3.55375	63186			3.83327	
	4175203.68	4.17924	63186			4.64391	
	4175242.91	5.41805	63186		4175262.52	6.53768	
			*** C:\Users\Smith	n\Drop	box\My PC (	DESKTOP-	
977GSBU)\Docu			12/13/23			***	15.02.10
*** AERMET -	VERSION 1808	51 °°° ***	•		DAGE 7		15:02:10
*** MODELOP	Ts: CONC EL	EV RURA	L ADJ_U*		PAGE 7	O	

*** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:

STCK10 ***

INCLUDING SOURCE(S): STCK10

** CONC OF OTHER IN MICROGRAMS/M**3

X-COORD (	M) Y-COORD	(M) CON	NC :	X-COOI	RD (M)	Y-COOI	RD (M)	CONC
631862.10	4175282.14	7.87480	631861	.77 41	75301.7	5 9.4	5327	
631861.43	4175321.37	11.40253	63186		175340.9		61148	
631860.75	4175360.60	15.81923	63186		175380.2		48568	
631860.07	4175399.83	17.76356	63185	9.73 4	175419.4	14 16.	15088	
631859.40	4175439.06	13.51182	63185	9.06 4	175458.6	57 10.	51496	
631858.72	4175478.29	7.83057	631858	3.38 41	75497.9	0 5.8	5736	
631858.04	4175517.52	4.42839	631857	7.70 41	75537.1	3 3.4	8626	
631857.37	4175556.75	2.87008	631857	7.03 41	75576.3	6 2.4	7220	
631856.69	4175595.98	2.20256	631856	5.35 41	75615.5	9 2.0	0863	
631856.01	4175635.21	1.86260	631855		75654.8		5510	
631855.33	4175674.44	1.67441	631855		75694.0		0284	
631854.66	4175713.67	1.53366	631854		75733.2		6639	
631853.98	4175752.90	1.40337	631853		75772.5		4479	
631853.30	4175792.13	1.28618	631852		75811.7		3182	
631852.63	4175831.36	1.17641	631852		75850.9		3524	
631851.95	4175870.59	1.09829	631851		75890.2		9451	
631851.27	4175909.82	1.09688	631850		75929.4		6196	
631850.60	4175949.05	1.07824	631850		75968.6		3667	
631830.54	4175988.13	0.88378	631811		75987.9		9470	
631791.77	4175987.83	0.94654	631772		75987.6		4032	
631753.00	4175987.52	1.09780	631733		75987.3		9201	
631714.24	4175987.22	1.06677	631694		75987.0		8038	
631675.47	4175986.92	1.14453	631656		75986.7		2767	
631636.70	4175986.62	1.14399	631617		75986.4		3492	
631597.94	4175986.31	1.11773	631578		75986.1		1384	
631559.17	4175986.01	1.08102	631539		75985.8		7415	
631520.40	4175985.71	1.07061	631501		75985.5		6049	
631481.64	4175985.40	1.03479	631462		75985.2		1584	
631442.87	4175985.10	1.00469	631423		75984.9		9668	
631404.10	4175984.80	0.99353	631384		75984.6		8821	
631365.34	4175984.50	0.98028	631345 631307		75984.3		7089	
631326.57	4175984.19	0.96247			75984.0		5522	
631287.80	4175983.89 4175200.50	0.94840 0.61956	631050		75100.5		1374 1853	
631050.63			631050		75300.5			
631050.63 631050.63	4175400.50 4175600.50	0.82262 0.96287	631050 631050		75500.5 75700.5		3514 8918	
631050.63	4175800.50	0.98281	631050		75900.5		3778	
631050.63	4176000.50	0.98281	631050		76100.5		1604	
631150.63	4175100.50	0.65659	631150		75200.5		5537	
631150.63	4175300.50	1.05584	631150		75400.5		2838	
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*** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:

STCK10 ***

INCLUDING SOURCE(S): STCK10 ,

** CONC OF OTHER IN MICROGRAMS/M**3

X-COORD (	M) Y-COORD	(M) CO	NC X-CO	OORD (M) Y	-COORD (M	) CONC
631150.63	4175500.50	1.34636	631150.63	4175600.50	1.42257	
631150.63	4175700.50	1.42952	631150.63	4175800.50	1.28438	
631150.63	4175900.50	1.08031	631150.63	4176000.50	0.88665	
631150.63	4176100.50	0.73157	631250.63	4175100.50	0.86841	
631250.63	4175200.50	1.23280	631250.63	4175300.50	1.79267	
631250.63	4175400.50	2.23707	631250.63	4175500.50	2.27222	
631250.63	4175600.50	1.74955	631250.63	4175700.50	1.73054	
631250.63	4175800.50	1.51823	631250.63	4175900.50	1.15021	
631250.63	4176000.50	0.90739	631250.63	4176100.50	0.74298	
631350.63	4175100.50	1.17977	631350.63	4175200.50	1.87026	
631350.63	4175300.50	3.29626	631350.63	4175400.50	3.94784	
631350.63	4175500.50	2.93159	631350.63	4175600.50	1.65650	
631350.63	4175700.50	1.20238	631350.63	4175800.50	1.05198	
631350.63	4175900.50	1.23990	631350.63	4176000.50	0.94033	
631350.63	4176100.50	0.77622	631450.63	4175100.50	1.49669	
631450.63	4175200.50	2.95007	631450.63	4175300.50	8.14145	
631450.63	4175400.50	9.95013	631450.63	4175500.50	4.29849	
631450.63	4175600.50	2.62705	631450.63	4175700.50	1.60923	
631450.63	4175800.50	1.01123	631450.63	4175900.50	0.89342	
631450.63	4176000.50	0.96546	631450.63	4176100.50	0.78588	
631550.63	4175100.50	2.01770	631550.63	4175200.50	4.14596	
631550.63	4175300.50	2.34778	631550.63	4175400.50	11.95909	
631550.63	4175500.50	4.99025	631550.63	4175600.50	1.89305	
631550.63	4175700.50	0.93025	631550.63	4175800.50	0.62074	
631550.63	4175900.50	0.51772	631550.63	4176000.50	1.05096	
631550.63	4176100.50	0.77000	631650.63	4175100.50	2.97086	
631650.63	4175200.50	2.55386	631650.63	4175300.50	2.51114	
631650.63	4175400.50	9.48942	631650.63	4175500.50	5.72820	
631650.63	4175600.50	3.00531	631650.63	4175700.50	1.73430	
631650.63	4175800.50	1.04982	631650.63	4175900.50	0.68945	
631650.63 631750.63	4176000.50 4175100.50	1.15962 3.36270	631650.63 631750.63	4176100.50 4175200.50	0.73907 4.67252	
631750.63	4175300.50	3.36270	631750.63	4175400.50	10.99355	
631750.63	4175500.50	4.51385	631750.63	4175600.50	2.46223	
631750.63	4175700.50	1.78125	631750.63	4175800.50	1.24931	
631750.63		0.86069	631750.63		1.00705	
631750.63		0.68500	631850.63		3.01183	
	4175200.50	4.23408	631850.63		9.77799	
	4175400.50	19.36537	631850.63		5.53850	
631850.63	4175600.50	2.15336	631850.63	4175700.50	1.58830	
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_				PAGE 78	3	-
*** MODELOP	Ts: CONC EI	LEV RURAL	ADJ_U*			

*** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:

STCK10 ***

INCLUDING SOURCE(S): STCK10 ,

#### ** CONC OF OTHER IN MICROGRAMS/M**3

X-COORD (M) Y-COORI	O(M) CONC	X-CO	OORD (M) Y	-COORD (M)	CONC
631850.63 4175800.50	1.26247	631850.63	4175900.50	1.07990	
631850.63 4176000.50	0.84239	631850.63	4176100.50	0.65320	
631950.63 4175100.50	2.54913	631950.63	4175200.50	3.68987	
631950.63 4175300.50	6.89239	631950.63	4175400.50	10.69476	
631950.63 4175500.50	6.43979	631950.63	4175600.50	2.92623	
631950.63 4175700.50	1.55484	631950.63	4175800.50	1.42930	
631950.63 4175900.50	1.01191	631950.63	4176000.50	0.80054	
631950.63 4176100.50	0.64992	632050.63	4175100.50	2.25092	
632050.63 4175200.50	3.38369	632050.63	4175300.50	5.82656	
632050.63 4175400.50	7.89441	632050.63	4175500.50	5.15246	
632050.63 4175600.50	2.54146	632050.63	4175700.50	1.51584	
632050.63 4175800.50	1.09560	632050.63	4175900.50	0.88945	
632050.63 4176000.50	0.73866	632050.63	4176100.50	0.62830	
*** AERMOD - VERSION 1	9191 *** *** C:\U	Jsers\Smith\Drop	box\My PC (I	DESKTOP-	
977GSBU)\Documents\HRA\Tra	acy C *** 12/13	3/23	- `		
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*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:

STCK11 ***

INCLUDING SOURCE(S): STCK11 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

X-COORD (	M) Y-COORD	(M) CONC	X-C0	OORD (M)	Y-COORD (M)	CONC
 632121.21	4174952.36	0.71909	632304.44	4174354.52	2 0.19990	
632192.15	4174956.32	0.69546	632420.62	4175510.13	1.92006	
632418.97	4175552.92	2.06437	631187.00	4175727.00	3.05791	
631166.00	4175729.00	2.69894	631121.00	4175719.00	1.94742	
631035.00	4174830.00	0.17705	631106.00	4174825.00	0.18741	
631937.00	4174528.00	0.22849	631322.00	4174522.00	0.10076	
629800.63	4173850.44	0.01896	630150.63	4173850.44	1 0.02247	
630500.63	4173850.44	0.03065	630850.63	4173850.44	1 0.04466	
631200.63	4173850.44	0.03873	631550.63	4173850.44	1 0.05399	
631900.63	4173850.44	0.06851	632250.63	4173850.44	0.08663	
632600.63	4173850.44	0.10719	632950.63	4173850.44	0.12025	
633300.63	4173850.44	0.11604	629800.63	4174200.44	1 0.02663	
630150.63	4174200.44	0.03494	630500.63	4174200.44	1 0.05169	
630850.63	4174200.44	0.06469	631200.63	4174200.44	1 0.06307	
631550.63	4174200.44	0.08674	631900.63	4174200.44	0.12526	
632250.63	4174200.44	0.14657	632600.63	4174200.44	1 0.17286	
632950.63	4174200.44	0.16585	633300.63	4174200.44	0.15173	
629800.63	4174550.44	0.04576	630150.63	4174550.44	1 0.05669	
630500.63	4174550.44	0.07495	630850.63	4174550.44	0.10164	
631200.63	4174550.44	0.11983	631550.63	4174550.44	0.14948	

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                4174550.44
                              0.23567
                                                  632250.63
                                                             4174550.44
                                                                            0.28689
    632600.63
                4174550.44
                              0.27123
                                                  632950.63
                                                             4174550.44
                                                                            0.23962
                                                                            0.05799
    633300.63
                4174550.44
                               0.22643
                                                  629800.63
                                                             4174900.44
    630150.63
                4174900.44
                               0.07840
                                                  630500.63
                                                             4174900.44
                                                                            0.11265
    630850.63
                4174900.44
                               0.15685
                                                  631200.63
                                                             4174900.44
                                                                            0.23466
    631550.63
                4174900.44
                               0.35814
                                                  631900.63
                                                             4174900.44
                                                                            0.60061
    632250.63
                4174900.44
                               0.59397
                                                  632600.63
                                                             4174900.44
                                                                            0.47466
    632950.63
                4174900.44
                               0.40642
                                                  633300.63
                                                             4174900.44
                                                                            0.34530
    629800.63
                4175250.44
                               0.06979
                                                  630150.63
                                                             4175250.44
                                                                            0.11157
    630500.63
                4175250.44
                               0.18040
                                                  630850.63
                                                             4175250.44
                                                                            0.29224
                4175250.44
                                                             4175250.44
    631200.63
                              0.58185
                                                  631550.63
                                                                            1.28246
    631900.63
                4175250.44
                               1.88033
                                                  632250.63
                                                             4175250.44
                                                                            1.23416
    632600.63
                4175250.44
                              0.91244
                                                  632950.63
                                                             4175250.44
                                                                            0.67247
    633300.63
                4175250.44
                              0.51329
                                                  629800.63
                                                             4175600.44
                                                                            0.09057
    630150.63
                4175600.44
                              0.13959
                                                  630500.63
                                                             4175600.44
                                                                            0.24930
    630850.63
                4175600.44
                              0.52620
                                                  631200.63
                                                             4175600.44
                                                                            2.26685
    631550.63
                4175600.44
                              16.91821
                                                  631900.63
                                                             4175600.44
                                                                             7.96898
    632250.63
                4175600.44
                              3.28085
                                                  632600.63
                                                             4175600.44
                                                                            1.49210
    632950.63
                4175600.44
                              0.89576
                                                  633300.63
                                                             4175600.44
                                                                            0.63558
                4175950.44
                               0.10006
                                                             4175950.44
                                                                            0.15251
    629800.63
                                                  630150.63
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*** MODELOPTs: CONC ELEV RURAL ADJ U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:

PAGE 80

STCK11 ***

INCLUDING SOURCE(S): STCK11 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

X-COORD (	M) Y-COORD	(M) CONC	X-C0	OORD (M)	Y-COORD (M)	CONC
 630500.63	4175950.44	0.29370	630850.63	4175950.44	0.75454	
631200.63	4175950.44	2.78419	631550.63	4175950.44	3.13855	
631900.63	4175950.44	1.83828	632250.63	4175950.44	1.72903	
632600.63	4175950.44	1.16324	632950.63	4175950.44	0.78372	
633300.63	4175950.44	0.56928	629800.63	4176300.44	0.11936	
630150.63	4176300.44	0.19982	630500.63	4176300.44	0.38829	
630850.63	4176300.44	0.76610	631200.63	4176300.44	1.01342	
631550.63	4176300.44	0.92518	631900.63	4176300.44	0.80217	
632250.63	4176300.44	0.68731	632600.63	4176300.44	0.60261	
632950.63	4176300.44	0.49214	633300.63	4176300.44	0.39665	
629800.63	4176650.44	0.14297	630150.63	4176650.44	0.23436	
630500.63	4176650.44	0.37115	630850.63	4176650.44	0.52486	
631200.63	4176650.44	0.58258	631550.63	4176650.44	0.56116	
631900.63	4176650.44	0.47991	632250.63	4176650.44	0.44248	
632600.63	4176650.44	0.37241	632950.63	4176650.44	0.30674	
633300.63	4176650.44	0.26827	629800.63	4177000.44	0.15249	
630150.63	4177000.44	0.21478	630500.63	4177000.44	0.29381	
630850.63	4177000.44	0.34766	631200.63	4177000.44	0.39715	
631550.63	4177000.44	0.37549	631900.63	4177000.44	0.32598	
632250.63	4177000.44	0.30940	632600.63	4177000.44	0.26682	

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632950.63
                4177000.44
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                                                  633300.63
                                                             4177000.44
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    629800.63
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                               0.14249
                                                  630150.63
                                                             4177350.44
                                                                            0.18082
    630500.63
                4177350.44
                               0.21441
                                                  630850.63
                                                             4177350.44
                                                                            0.24768
    631200.63
                4177350.44
                               0.27262
                                                  631550.63
                                                             4177350.44
                                                                            0.26019
    631900.63
                4177350.44
                               0.24057
                                                  632250.63
                                                             4177350.44
                                                                            0.21244
    632600.63
                4177350.44
                               0.20478
                                                  632950.63
                                                             4177350.44
                                                                            0.17623
                               0.15555
                                                  631670.70
                                                             4175493.59
    633300.63
                4177350.44
                                                                            6.60323
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                              19.49968
                                                  631665.32
                                                              4175796.39
                                                                             6.98547
    631417.17
                4175826.85
                               7.17097
                                                  631417.17
                                                             4175673.66
                                                                            36.82998
    631422.55
                4175484.63
                               2.10423
                                                  631268.42
                                                             4175983.74
                                                                            3.32872
    631275.69
                4175523.99
                               2.17707
                                                                            2.39445
                                                  631345.65
                                                             4175419.50
                                                  631491.93
    631384.72
                4175441.30
                               1.59944
                                                             4175442.21
                                                                            3.69256
    631491.93
                4175414.95
                               3.43351
                                                  631385.63
                                                             4175413.14
                                                                            2.39524
    631358.37
                4175395.87
                               2.39394
                                                  631409.25
                                                             4175336.81
                                                                            1.33702
    631567.35
                4175235.96
                               1.24937
                                                  631756.33
                                                             4175028.80
                                                                            0.80081
    631807.22
                               0.77727
                4175003.36
                                                  631867.18
                                                             4174987.91
                                                                            0.79401
    631849.92
                               1.57693
                                                  631268.74
                                                                            4.96307
                4175988.28
                                                             4175963.75
    631269.05
                4175943.76
                               4.95269
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                                                             4175923.77
                                                                            4.84940
    631269.68
                4175903.78
                               4.85157
                                                  631270.00
                                                             4175883.79
                                                                            5.03631
    631270.32
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                               5.34826
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                                                             4175843.82
                                                                            5.76906
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977GSBU)\Documents\HRA\Tracy C ***
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*** AERMET - VERSION 18081 *** ***
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*** MODELOPTs: CONC ELEV RURAL ADJ U*

*** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:

STCK11 ***

INCLUDING SOURCE(S): STCK11

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

X-COORD (	M) Y-COORD	(M) CONC	X-Co	OORD (M) Y-	COORD (M)	CONC
 631270.95	4175823.83	6.23273	631271.26	4175803.84	6.62990	
631271.58	4175783.85	7.07522	631271.90	4175763.86	7.37252	
631272.21	4175743.87	7.37359	631272.53	4175723.88	7.12286	
631272.85	4175703.89	6.68089	631273.16	4175683.90	5.99384	
631273.48	4175663.91	5.28386	631273.79	4175643.92	4.63468	
631274.11	4175623.94	4.04463	631274.43	4175603.95	3.48380	
631274.74	4175583.96	2.98430	631275.06	4175563.97	2.53890	
631275.37	4175543.98	2.18536	631285.68	4175509.06	2.17289	
631295.68	4175494.14	2.09894	631305.67	4175479.21	2.03187	
631315.67	4175464.28	2.00474	631325.66	4175449.35	1.95804	
631335.66	4175434.43	2.29988	631358.67	4175426.77	2.27258	
631371.70	4175434.03	2.01388	631402.59	4175441.45	1.57304	
631420.46	4175441.60	1.71139	631438.33	4175441.76	2.04790	
631456.19	4175441.91	2.60058	631474.06	4175442.06	3.14299	
631491.93	4175428.58	3.42516	631474.21	4175414.65	3.03820	
631456.50	4175414.35	2.81266	631438.78	4175414.05	2.69759	
631421.06	4175413.74	2.65455	631403.35	4175413.44	2.59405	
631372.00	4175404.51	2.52216	631371.09	4175381.11	2.02984	
631383.81	4175366.34	1.65952	631396.53	4175351.58	1.45797	
631425.06	4175326.73	1.24365	631440.87	4175316.64	1.26497	

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631456.68
                4175306.56
                               1.21759
                                                  631472.49
                                                             4175296.47
                                                                            1.21523
    631488.30
                4175286.39
                               1.23824
                                                  631504.11
                                                             4175276.30
                                                                            1.22339
    631519.92
                4175266.22
                               1.23211
                                                  631535.73
                                                             4175256.13
                                                                            1.25679
    631551.54
                4175246.05
                               1.24698
                                                  631579.95
                                                             4175222.15
                                                                            1.22788
    631592.55
                                                  631605.15
                4175208.34
                               1.18290
                                                             4175194.53
                                                                            1.16525
    631617.74
                4175180.72
                               1.11927
                                                  631630.34
                                                             4175166.91
                                                                            1.10354
                                                  631655.54
    631642.94
                4175153.10
                               1.05717
                                                             4175139.29
                                                                            1.04088
    631668.14
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                                                  631680.74
                                                             4175111.66
                                                                            0.98075
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                4175097.85
                               0.93783
                                                  631705.94
                                                             4175084.04
                                                                            0.92434
    631718.53
                4175070.23
                               0.89652
                                                  631731.13
                                                             4175056.42
                                                                            0.86943
    631743.73
                4175042.61
                                                  631773.29
                               0.84315
                                                             4175020.32
                                                                            0.80825
    631790.26
                4175011.84
                               0.80157
                                                  631822.21
                                                             4174999.50
                                                                            0.77829
    631837.20
                4174995.64
                               0.77964
                                                  631852.19
                                                             4174991.77
                                                                            0.78018
    631866.84
                4175007.53
                               0.83158
                                                  631866.50
                                                             4175027.14
                                                                            0.90640
    631866.16
                4175046.76
                               0.97681
                                                  631865.83
                                                             4175066.37
                                                                            1.04877
    631865.49
                4175085.99
                               1.12636
                                                  631865.15
                                                             4175105.60
                                                                            1.20729
    631864.81
                4175125.22
                               1.29402
                                                  631864.47
                                                             4175144.83
                                                                            1.38659
    631864.13
                4175164.45
                               1.48538
                                                  631863.80
                                                             4175184.06
                                                                            1.58804
    631863.46
               4175203.68
                               1.69292
                                                  631863.12
                                                             4175223.29
                                                                            1.80295
    631862.78
               4175242.91
                               1.91973
                                                             4175262.52
                                                  631862.44
                                                                            2.03856
  *** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-
977GSBU)\Documents\HRA\Tracy C ***
                                         12/13/23
*** AERMET - VERSION 18081 *** ***
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*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:

STCK11 ***

INCLUDING SOURCE(S): STCK11

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

X-COORD (	M) Y-COORD	O(M) CONC	X-CO	OORD (M) Y	-COORD (M)	CONC
631862.10	4175282.14	2.16282	631861.77	4175301.75	2.29187	
631861.43	4175321.37	2.42561	631861.09	4175340.98	2.56240	
631860.75	4175360.60	2.70825	631860.41	4175380.21	2.86901	
631860.07	4175399.83	3.04408	631859.73	4175419.44	3.23979	
631859.40	4175439.06	3.46222	631859.06	4175458.67	3.72323	
631858.72	4175478.29	4.04357	631858.38	4175497.90	4.43819	
631858.04	4175517.52	4.93648	631857.70	4175537.13	5.56958	
631857.37	4175556.75	6.37234	631857.03	4175576.36	7.34370	
631856.69	4175595.98	8.45808	631856.35	4175615.59	9.64958	
631856.01	4175635.21	10.80727	631855.67	4175654.82	11.78066	
631855.33	4175674.44	12.39162	631855.00	4175694.05	12.47706	
631854.66	4175713.67	11.96981	631854.32	4175733.28	10.93337	
631853.98	4175752.90	9.55152	631853.64	4175772.51	8.05500	
631853.30	4175792.13	6.62890	631852.97	4175811.74	5.39026	
631852.63	4175831.36	4.38341	631852.29	4175850.97	3.60684	
631851.95	4175870.59	3.02599	631851.61	4175890.20	2.59879	
631851.27	4175909.82	2.28156	631850.94	4175929.43	2.03941	
631850.60	4175949.05	1.85003	631850.26	4175968.66	1.70019	
631830.54	4175988.13	1.59645	631811.15	4175987.98	1.61964	
631791.77	4175987.83	1.65674	631772.39	4175987.67	1.69616	

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631753.00
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                                                  631733.62
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                4175987.22
                               1.82167
                                                  631694.85
                                                             4175987.07
                                                                             1.87060
    631675.47
                4175986.92
                               1.92011
                                                  631656.09
                                                             4175986.77
                                                                             1.97151
    631636.70
                4175986.62
                               2.00967
                                                  631617.32
                                                             4175986.46
                                                                            2.04311
    631597.94
                4175986.31
                               2.08348
                                                  631578.55
                                                             4175986.16
                                                                            2.14359
    631559.17
                4175986.01
                               2.21628
                                                  631539.79
                                                             4175985.86
                                                                            2.28149
                                                                            2.47805
    631520.40
                4175985.71
                               2.36899
                                                  631501.02
                                                              4175985.56
    631481.64
                                                  631462.25
                                                             4175985.25
                                                                            3.03374
                4175985.40
                               2.75560
    631442.87
                4175985.10
                               3.29514
                                                  631423.49
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                                                                            3.51612
    631404.10
                4175984.80
                               3.88127
                                                  631384.72
                                                             4175984.65
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                                                  631345.95
    631365.34
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                               4.20583
                                                             4175984.35
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                4175984.19
    631326.57
                               4.56058
                                                  631307.19
                                                             4175984.04
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                4175983.89
                               4.39235
                                                  631050.63
                                                             4175100.50
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    631050.63
                4175200.50
                               0.36818
                                                  631050.63
                                                             4175300.50
                                                                            0.46862
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                4175400.50
                               0.61092
                                                  631050.63
                                                             4175500.50
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                4175600.50
                               1.01548
                                                  631050.63
                                                             4175700.50
                                                                             1.22298
    631050.63
                4175800.50
                               1.38706
                                                             4175900.50
                                                                             1.50588
                                                  631050.63
    631050.63
                4176000.50
                               1.49276
                                                  631050.63
                                                             4176100.50
                                                                             1.37404
    631150.63
                4175100.50
                               0.35120
                                                  631150.63
                                                             4175200.50
                                                                            0.45173
    631150.63
                4175300.50
                               0.60119
                                                  631150.63
                                                             4175400.50
                                                                            0.82191
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977GSBU)\Documents\HRA\Tracy C ***
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*** MODELOPTs: CONC ELEV RURAL ADJ U*

*** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:

STCK11 ***

INCLUDING SOURCE(S): STCK11

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

X-COORD (	M) Y-COORI	O(M) CONC	X-CO	OORD (M)	Y-COORD (M)	CONC
631150.63	4175500.50	1.19601	631150.63	4175600.50	1.66062	
631150.63	4175700.50	2.27851	631150.63	4175800.50	2.52754	
631150.63	4175900.50	2.41533	631150.63	4176000.50	2.09858	
631150.63	4176100.50	1.66961	631250.63	4175100.50	0.40587	
631250.63	4175200.50	0.54819	631250.63	4175300.50	0.77204	
631250.63	4175400.50	1.14455	631250.63	4175500.50	1.97785	
631250.63	4175600.50	3.06944	631250.63	4175700.50	5.49008	
631250.63	4175800.50	5.91435	631250.63	4175900.50	4.96448	
631250.63	4176000.50	2.69516	631250.63	4176100.50	1.81072	
631350.63	4175100.50	0.44928	631350.63	4175200.50	0.63586	
631350.63	4175300.50	0.95821	631350.63	4175400.50	2.32604	
631350.63	4175500.50	2.00891	631350.63	4175600.50	4.97424	
631350.63	4175700.50	29.44903	631350.63	4175800.50	10.19742	
631350.63	4175900.50	4.44079	631350.63	4176000.50	3.95205	
631350.63	4176100.50	1.85042	631450.63	4175100.50	0.52417	
631450.63	4175200.50	0.75783	631450.63	4175300.50	1.16404	
631450.63	4175400.50	2.74039	631450.63	4175500.50	2.80649	
631450.63	4175600.50	8.53986	631450.63	4175700.50	89.62466	
631450.63	4175800.50	8.56038	631450.63	4175900.50	2.49970	
631450.63	4176000.50	2.86936	631450.63	4176100.50	1.69957	

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631550.63
               4175100.50
                             0.68145
                                                631550.63
                                                           4175200.50
                                                                         1.00951
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               4175300.50
                              1.65123
                                                631550.63
                                                           4175400.50
                                                                         3.09185
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               4175500.50
                              7.71269
                                                631550.63
                                                           4175600.50
                                                                         16.92902
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               4175700.50
                             76.65073
                                                631550.63
                                                           4175800.50
                                                                          7.31535
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                                                           4176000.50
                                                                         2.09839
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               4175900.50
                              3.67078
    631550.63
               4176100.50
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                                                631650.63
                                                           4175100.50
                                                                         0.86372
                                                                         2.25585
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               4175200.50
                              1.34142
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                                                           4175300.50
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               4175400.50
                              4.00084
                                                631650.63
                                                           4175500.50
                                                                         7.97098
    631650.63
               4175600.50
                             16.08720
                                                631650.63
                                                           4175700.50
                                                                          30.86072
    631650.63
               4175800.50
                             6.94894
                                                631650.63
                                                           4175900.50
                                                                         3.00455
    631650.63
               4176000.50
                              1.87443
                                                631650.63
                                                           4176100.50
                                                                          1.31660
    631750.63
               4175100.50
                              1.06131
                                                631750.63
                                                           4175200.50
                                                                         1.62317
    631750.63
               4175300.50
                              2.51354
                                                631750.63
                                                           4175400.50
                                                                         3.77246
    631750.63
               4175500.50
                              5.48259
                                                631750.63
                                                           4175600.50
                                                                         10.53073
    631750.63
               4175700.50
                             18.73647
                                                631750.63
                                                           4175800.50
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               4175900.50
                              2.50662
                                                631750.63
                                                           4176000.50
                                                                          1.66780
    631750.63
               4176100.50
                              1.24358
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                                                           4175100.50
                                                                          1.18010
    631850.63
               4175200.50
                              1.68655
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                                                           4175300.50
                                                                         2.31902
    631850.63
               4175400.50
                              3.10391
                                                631850.63
                                                           4175500.50
                                                                         4.54712
              4175600.50
                                                           4175700.50
                                                                         12.57686
    631850.63
                              8.83162
                                                631850.63
*** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-
977GSBU)\Documents\HRA\Tracy C ***
                                        12/13/23
*** AERMET - VERSION 18081 *** ***
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                                                              PAGE 84
*** MODELOPTs: CONC ELEV RURAL ADJ U*
               *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:
STCK11 ***
                 INCLUDING SOURCE(S):
                                            STCK11
                        *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                     ** CONC OF OTHER IN MICROGRAMS/M**3
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X-COORD (M) Y-COORD (M)	CONC X-CO	ORD (M)	Y-COORD (M)	) CONC
631850.63 4175800.50 6.08466	631850.63	4175900.50	2.42052	
631850.63 4176000.50 1.51328	631850.63	4176100.50	1.16763	
631950.63 4175100.50 1.16781	631950.63	4175200.50	1.54888	
631950.63 4175300.50 1.99279	631950.63	4175400.50	2.62697	
631950.63 4175500.50 4.03363	631950.63	4175600.50	7.13030	
631950.63 4175700.50 8.79330	631950.63	4175800.50	5.41517	
631950.63 4175900.50 2.49597	631950.63	4176000.50	1.49205	
631950.63 4176100.50 1.10871	632050.63	4175100.50	1.08137	
632050.63 4175200.50 1.36550	632050.63	4175300.50	1.72283	
632050.63 4175400.50 2.33703	632050.63	4175500.50	3.56678	
632050.63 4175600.50 5.56827	632050.63	4175700.50	6.31715	
632050.63 4175800.50 4.52510	632050.63	4175900.50	2.47940	
632050.63 4176000.50 1.52108	632050.63	4176100.50	1.08465	
*** AERMOD - VERSION 19191 ***	*** C:\Users\Smith\Drop	box\My PC	(DESKTOP-	
977GSBU)\Documents\HRA\Tracy C ***	12/13/23	•	•	
*** AERMET - VERSION 18081 *** *	**		***	15:02:10
		PAGE 8	85	

*** MODELOPTs: CONC ELEV RURAL ADJ U*

*** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:

# *** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3

X-COORD (M) Y-COORD (M) CONC	X-COORD (M) Y-C	COORD (M) CONC
632121.21 4174952.36 0.88006	632304.44 4174354.52	0.23823
632192.15 4174956.32 0.83823	632420.62 4175510.15	2.16241
632418.97 4175552.92 2.21823	631187.00 4175727.00	3.78588
631166.00 4175729.00 3.44096	631121.00 4175719.00	2.56392
631035.00 4174830.00 0.19981	631106.00 4174825.00	0.21536
631937.00 4174528.00 0.27872	631322.00 4174522.00	0.11616
629800.63 4173850.44 0.01956	630150.63 4173850.44	0.02345
630500.63 4173850.44 0.03218	630850.63 4173850.44	0.04793
631200.63 4173850.44 0.04220	631550.63 4173850.44	0.05928
631900.63 4173850.44 0.07609	632250.63 4173850.44	0.09736
632600.63 4173850.44 0.12163	632950.63 4173850.44	0.13185
633300.63 4173850.44 0.12438	629800.63 4174200.44	0.02828
630150.63 4174200.44 0.03669	630500.63 4174200.44	0.05426
630850.63 4174200.44 0.06992	631200.63 4174200.44	0.07036
631550.63 4174200.44 0.09754	631900.63 4174200.44	0.14368
632250.63 4174200.44 0.17248	632600.63 4174200.44	0.19603
632950.63 4174200.44 0.18116	633300.63 4174200.44	0.17202
629800.63 4174550.44 0.04970	630150.63 4174550.44	0.06047
630500.63 4174550.44 0.08061	630850.63 4174550.44	0.10919
631200.63 4174550.44 0.13679	631550.63 4174550.44	0.17559
631900.63 4174550.44 0.28775	632250.63 4174550.44	0.34550
632600.63 4174550.44 0.30608	632950.63 4174550.44	0.28077
633300.63 4174550.44 0.25444	629800.63 4174900.44	0.06218
630150.63 4174900.44 0.08282	630500.63 4174900.44	0.12434
630850.63 4174900.44 0.17600	631200.63 4174900.44	0.28057
631550.63 4174900.44 0.46456	631900.63 4174900.44	0.82613
632250.63 4174900.44 0.70806	632600.63 4174900.44	0.56281
632950.63 4174900.44 0.47021	633300.63 4174900.44	0.38998
629800.63 4175250.44 0.07239	630150.63 4175250.44	0.11339
630500.63 4175250.44 0.19604	630850.63 4175250.44	0.34169
631200.63 4175250.44 0.77587	631550.63 4175250.44	2.14026
631900.63 4175250.44 2.41893	632250.63 4175250.44	1.60911
632600.63 4175250.44 1.09302	632950.63 4175250.44	0.75534
633300.63 4175250.44 0.56016	629800.63 4175600.44	0.09035
630150.63 4175600.44 0.13906	630500.63 4175600.44	0.25707
630850.63 4175600.44 0.59693	631200.63 4175600.44	3.32998
631550.63 4175600.44 74.96768	631900.63 4175600.44	10.44713
632250.63 4175600.44 3.44358	632600.63 4175600.44	1.50779
632950.63 4175600.44 0.90068	633300.63 4175600.44	0.63839
629800.63 4175950.44 0.10406	630150.63 4175950.44	0.16146
*** AERMOD - VERSION 19191 *** *** C:\Use	rs\Smith\Dropbox\My PC (DE	SKTOP-
977GSBU)\Documents\HRA\Tracy C *** 12/13/23	3	
*** AERMET - VERSION 18081 *** ***		*** 15:02:10
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^{***} THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

** CONC OF OTHER IN MICROGRAMS/M**3

X-COORD (M	f) Y-COORD (	M) CONC	X-CO	OORD (M) Y-C	OORD (M	) CONC
630500.63	4175950.44	0.32559	630850.63	4175950.44	0.81167	
	4175950.44	2.33835	631550.63	4175950.44	1.95240	
	4175950.44	1.23125	632250.63	4175950.44	1.23489	
	4175950.44	0.96175	632950.63	4175950.44	0.69982	
	4175950.44	0.52220	629800.63	4176300.44	0.12757	
	4176300.44	0.21621	630500.63	4176300.44	0.39970	
	4176300.44	0.73652	631200.63	4176300.44	0.86145	
631550.63	4176300.44	0.78781	631900.63	4176300.44	0.66459	
632250.63	4176300.44	0.58563	632600.63	4176300.44	0.50085	
632950.63	4176300.44	0.43035	633300.63	4176300.44	0.35440	
	4176650.44	0.14781	630150.63	4176650.44	0.23409	
630500.63	4176650.44	0.36347	630850.63	4176650.44	0.48154	
631200.63	4176650.44	0.53631	631550.63	4176650.44	0.50208	
	4176650.44	0.42017	632250.63	4176650.44	0.39523	
	4176650.44	0.33777	632950.63	4176650.44	0.27637	
	4176650.44	0.24118	629800.63	4177000.44	0.15142	
	4177000.44	0.20964	630500.63	4177000.44	0.27947	
	4177000.44	0.32166	631200.63	4177000.44	0.36954	
	4177000.44	0.34402	631900.63	4177000.44	0.30194	
	4177000.44	0.27820	632600.63	4177000.44	0.24684	
	4177000.44	0.21242	633300.63	4177000.44	0.18079	
	4177350.44	0.13896	630150.63	4177350.44	0.17369	
	4177350.44	0.20240	630850.63	4177350.44	0.23245	
	4177350.44	0.25378	631550.63	4177350.44	0.24160	
	4177350.44	0.22534	632250.63	4177350.44	0.19421	
	4177350.44	0.19013	632950.63	4177350.44	0.16543	
	4177350.44	0.14671	631670.70	4175493.59	11.48118	
		17.21338	631665.32	4175796.39	3.14656	
	4175826.85	3.26959	631417.17	4175673.66	18.48364	
	4175484.63	5.15775	631268.42	4175983.74	2.36071	
	4175523.99	4.28916	631345.65	4175419.50	4.08665	
	4175441.30	2.53845	631491.93	4175442.21	10.56242	
	4175414.95	8.81459	631385.63	4175413.14	4.30445	
	4175395.87	3.87242	631409.25	4175336.81	2.20825	
	4175235.96	2.09530	631756.33	4175028.80	1.17534	
	4175003.36	1.11948	631867.18	4174987.91	1.09738	
	4175988.28	1.15538	631268.74	4175963.75	3.32517	
	4175943.76	3.22837	631269.37	4175923.77	3.26791	
	4175903.78	3.39143	631270.00	4175883.79	3.75224	
	4175863.81	4.22047	631270.63	4175843.82	4.71959	
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^{***} MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:

# *** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3

	X-COORD (	M)	Y-COORI	) (M)	CONC		X-C0	OORD (M)	Y-C	OORD (M	CONC
	631270.95	41	75823.83	5.263	 23		631271.26	4175803.8	 	5.84555	
	631271.58		75783.85	6.462			631271.90	4175763.8		6.99711	
	631272.21		75743.87	7.440			631272.53	4175723.8		7.86172	
	631272.85		75703.89	8.309			631273.16	4175683.9		8.71153	
	631273.48		75663.91	8.865			631273.79	4175643.9		8.99943	
	631274.11		75623.94	8.299			631274.43	4175603.9		6.44758	
	631274.74		75583.96	5.276			631275.06	4175563.9		4.51946	
	631275.37		75543.98	4.471			631285.68	4175509.0		4.25701	
	631295.68		75494.14	4.117			631305.67	4175479.2		3.97131	
	631315.67		75464.28	3.670			631325.66	4175449.3		3.56314	
	631335.66		75434.43	3.919			631358.67	4175426.7		4.01514	
	631371.70		75434.03	3.371			631402.59	4175441.4		2.89579	
	631420.46		75441.60	3.237			631438.33	4175441.7		4.34761	
	631456.19		75441.91	6.332			631474.06	4175442.0		8.53391	
	631491.93		75428.58	9.371			631474.21	4175414.6		7.15659	
	631456.50		75414.35	6.088	23		631438.78	4175414.0		5.48121	
	631421.06		75413.74	4.822			631403.35	4175413.4		4.46393	
	631372.00		75404.51	4.157			631371.09	4175381.1		3.33357	
	631383.81		75366.34	2.797	02		631396.53	4175351.5	8	2.45513	
	631425.06	41	75326.73	2.138	12		631440.87	4175316.6	4	2.09181	
	631456.68	41	75306.56	2.062	54	(	631472.49	4175296.4	7	2.04285	
	631488.30	41	75286.39	2.043	57	(	631504.11	4175276.3		2.06094	
	631519.92	41	75266.22	2.073	37	(	631535.73	4175256.1	3	2.08748	
	631551.54	41	75246.05	2.091	52	(	631579.95	4175222.1	5	2.02283	
	631592.55	41	75208.34	1.948	49	(	631605.15	4175194.5	3	1.87781	
	631617.74	41	75180.72	1.805	87	(	631630.34	4175166.9	1	1.74283	
	631642.94	41	75153.10	1.670	78	(	631655.54	4175139.2	9	1.60932	
	631668.14	41	75125.47	1.545	31	(	631680.74	4175111.6	6	1.48866	
	631693.34	41	75097.85	1.431	32	(	631705.94	4175084.0	4	1.37737	
	631718.53	41	75070.23	1.324	23	(	631731.13	4175056.4	2	1.27271	
	631743.73	41	75042.61	1.223	93	(	631773.29	4175020.3	2	1.15975	
	631790.26	41	75011.84	1.140	54	(	631822.21	4174999.5	0	1.11556	
	631837.20	41	74995.64	1.111	25	(	631852.19	4174991.7	7	1.10492	
	631866.84	41	75007.53	1.171	34	(	631866.50	4175027.1	4	1.25765	
	631866.16	41	75046.76	1.354	47	(	631865.83	4175066.3	7	1.45527	
	631865.49	41	75085.99	1.561	52	(	631865.15	4175105.6		1.67006	
	631864.81	41	75125.22	1.783	72	(	631864.47	4175144.8		1.89871	
	631864.13		75164.45	2.018		(	631863.80	4175184.0	6	2.14125	
			75203.68	2.267	73	(	631863.12	4175223.2	9	2.39859	
			75242.91	2.534			631862.44			2.67700	
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	7GSBU)\Docu			-		13/23					
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*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:

PAGE 88

### *** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3

X-COORD (M) Y-COORD (M) CONC	X-COORD (M) Y-COORD (	M) CONC
631862.10 4175282.14 2.82838	631861.77 4175301.75 2.99321	
631861.43 4175321.37 3.17817	631861.09 4175340.98 3.39581	
631860.75 4175360.60 3.65828	631860.41 4175380.21 3.98358	
631860.07 4175399.83 4.39099	631859.73 4175419.44 4.90516	
631859.40 4175439.06 5.55386	631859.06 4175458.67 6.35934	
631858.72 4175478.29 7.33125	631858.38 4175497.90 8.44315	
631858.04 4175517.52 9.62618	631857.70 4175537.13 10.76524	4
631857.37 4175556.75 11.70868	631857.03 4175576.36 12.2770	)5
631856.69 4175595.98 12.32702	631856.35 4175615.59 11.7887	
631856.01 4175635.21 10.74083	631855.67 4175654.82 9.36936	6
631855.33 4175674.44 7.89595	631855.00 4175694.05 6.49889	)
631854.66 4175713.67 5.28624	631854.32 4175733.28 4.30394	ļ
631853.98 4175752.90 3.53891	631853.64 4175772.51 2.96744	ļ
631853.30 4175792.13 2.54689	631852.97 4175811.74 2.22891	-
631852.63 4175831.36 1.99138	631852.29 4175850.97 1.80234	ļ
631851.95 4175870.59 1.65347	631851.61 4175890.20 1.53423	•
631851.27 4175909.82 1.43375	631850.94 4175929.43 1.35188	}
631850.60 4175949.05 1.27683	631850.26 4175968.66 1.21174	}
631830.54 4175988.13 1.17449	631811.15 4175987.98 1.19415	,
631791.77 4175987.83 1.21581	631772.39 4175987.67 1.24004	}
631753.00 4175987.52 1.26220	631733.62 4175987.37 1.27761	
631714.24 4175987.22 1.29616	631694.85 4175987.07 1.31325	;
631675.47 4175986.92 1.33001	631656.09 4175986.77 1.35486	· )
631636.70 4175986.62 1.37827	631617.32 4175986.46 1.40289	)
631597.94 4175986.31 1.43783	631578.55 4175986.16 1.48177	!
631559.17 4175986.01 1.53286	631539.79 4175985.86 1.58974	ŀ
631520.40 4175985.71 1.64555	631501.02 4175985.56 1.74750	)
631481.64 4175985.40 1.93853	631462.25 4175985.25 2.11748	}
631442.87 4175985.10 2.31920	631423.49 4175984.95 2.51388	;
631404.10 4175984.80 2.73996	631384.72 4175984.65 2.80980	)
631365.34 4175984.50 2.84484	631345.95 4175984.35 2.88318	;
631326.57 4175984.19 2.99119	631307.19 4175984.04 3.00802	<u> </u>
631287.80 4175983.89 2.94945	631050.63 4175100.50 0.35586	; )
631050.63 4175200.50 0.45484	631050.63 4175300.50 0.59238	;
631050.63 4175400.50 0.77122	631050.63 4175500.50 0.97970	)
631050.63 4175600.50 1.23586	631050.63 4175700.50 1.34115	
631050.63 4175800.50 1.52500	631050.63 4175900.50 1.56351	-
631050.63 4176000.50 1.44893	631050.63 4176100.50 1.24930	)
631150.63 4175100.50 0.43218	631150.63 4175200.50 0.57569	)
631150.63 4175300.50 0.79774	631150.63 4175400.50 1.11830	
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^{***} MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:

# *** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3

X-COORD (	M)	Y-COC	ORD (	(M) C	CONC	X-C	OORD (M)	Y-CO	OORD (M	) CONC
631150.63	<i>1</i> 1	75500.5	50	1.56607		631150.63	4175600.5	 :0	2.25545	
631150.63		75700.5		2.95567		631150.63	4175800.5		3.28221	
631150.63		75900.5		2.35670		631150.63	4176000.5		1.80535	
631150.63		76100.5		1.36459		631250.63	4175100.5		0.52324	
631250.63		75200.5		0.73664		631250.63	4175300.5		1.08832	
631250.63		75400.5		1.81029		631250.63	4175500.5		3.66156	
631250.63		75600.5		5.28066		631250.63	4175700.5		6.71493	
631250.63		75800.5 75800.5		5.34956		631250.63	4175900.5		3.50826	
631250.63		76000.5		2.01347		631250.63	4176100.5		1.39816	
631350.63		75100.5		0.60526		631350.63	4175200.5		0.90387	
631350.63		75300.5		1.54485		631350.63	4175400.5		3.91591	
631350.63		75500.5 75500.5		3.73063		631350.63	4175600.5		27.44940	
631350.63		75700.5		13.86785		631350.63			6.36969	
631350.63		75900.5		2.81088		631350.63	4176000.5		2.64331	
631350.63		75900.5 76100.5		1.44213		631450.63	4175100.5		0.72735	
631450.63		76100.5 75200.5		1.12080			4175100.5		1.94842	
						631450.63	4175500.5		9.05896	
631450.63		75400.5		5.50266		631450.63			9.03890	
631450.63		75600.5		97.89700	1	631450.63				
631450.63		75800.5		2.99251		631450.63	4175900.5		1.53825	
631450.63		76000.5		2.06443		631450.63	4176100.5		1.32647	
631550.63		75100.5		0.98456		631550.63	4175200.5		1.61220	
631550.63		75300.5		2.97397		631550.63	4175400.5		6.77418	
631550.63		75500.5		24.63289	1	631550.63			74.92348	
631550.63		75700.5		4.81358		631550.63	4175800.5		2.06293	
631550.63		75900.5		1.74858		631550.63	4176000.5		1.48806	
631550.63		76100.5		1.13748		631650.63	4175100.5		1.31682	
631650.63		75200.5		2.18706		631650.63	4175300.5		3.97139	
631650.63		75400.5		6.99191		631650.63	4175500.5		13.03904	
631650.63		75600.5		30.12070		631650.63			7.30312	
631650.63		75800.5		3.22170		631650.63	4175900.5		1.88169	
631650.63		76000.5		1.30680		631650.63	4176100.5		1.00971	
631750.63		75100.5		1.58400		631750.63	4175200.5		2.48872	
631750.63		75300.5		3.72394		631750.63	4175400.5		5.37916	
631750.63		75500.5		10.43409	1	631750.63			18.54888	
631750.63		75700.5		6.31215		631750.63	4175800.5		2.51267	
631750.63		75900.5		1.63738		631750.63	4176000.5		1.21943	
631750.63		76100.5		0.95144		631850.63	4175100.5		1.65499	
		75200.5		2.28815		631850.63			3.04733	
631850.63		75400.5		4.46083			4175500.5		8.73216	
631850.63		75600.5		12.53117		631850.63			6.09545	
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*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:

INCLUDING SOURCE(S): STCK12

# *** DISCRETE CARTESIAN RECEPTOR POINTS ***

# ** CONC OF OTHER IN MICROGRAMS/M**3

X-COORD (M) Y-COORI	O(M) CONC	X-CO	OORD (M) Y	C-COORD (M)	CONC
631850.63 4175800.50	2.39874	631850.63	4175900.50	1.47800	
631850.63 4176000.50	1.12291	631850.63	4176100.50	0.91609	
631950.63 4175100.50	1.51512	631950.63	4175200.50	1.95898	
631950.63 4175300.50	2.58166	631950.63	4175400.50	3.97596	
631950.63 4175500.50	7.00858	631950.63	4175600.50	8.79292	
631950.63 4175700.50	5.46567	631950.63	4175800.50	2.47186	
631950.63 4175900.50	1.44985	631950.63	4176000.50	1.06298	
631950.63 4176100.50	0.87444	632050.63	4175100.50	1.34411	
632050.63 4175200.50	1.69986	632050.63	4175300.50	2.30570	
632050.63 4175400.50	3.51614	632050.63	4175500.50	5.46201	
632050.63 4175600.50	6.32354	632050.63	4175700.50	4.59658	
632050.63 4175800.50	2.48566	632050.63	4175900.50	1.48706	
632050.63 4176000.50	1.04817	632050.63	4176100.50	0.84230	
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977GSBU)\Documents\HRA\Tr	acy C *** 12/13	3/23	-		
*** AERMET - VERSION 180	)81 *** ***			***	15:02:10
			PAGE 9	1	

*** MODELOPTs: CONC ELEV RURAL ADJ U*

*** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:

STCK13 ***

INCLUDING SOURCE(S): STCK13

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

X-COORD (	M) Y-COORD	(M) CONC	X-COORD (M) Y-COORD (M)	CONC
 632121.21	4174952.36	0.67497	632304.44 4174354.52 0.21422	
632192.15	4174956.32	0.64572	632420.62 4175510.15 1.59296	
632418.97	4175552.92	1.70130	631187.00 4175727.00 11.63387	
631166.00	4175729.00	9.17517	631121.00 4175719.00 5.49798	
631035.00	4174830.00	0.19424	631106.00 4174825.00 0.19882	
631937.00	4174528.00	0.25796	631322.00 4174522.00 0.11308	
629800.63	4173850.44	0.02065	630150.63 4173850.44 0.02463	
630500.63	4173850.44	0.03287	630850.63 4173850.44 0.04576	
631200.63	4173850.44	0.03888	631550.63 4173850.44 0.06572	
631900.63	4173850.44	0.07502	632250.63 4173850.44 0.09351	
632600.63	4173850.44	0.11437	632950.63 4173850.44 0.11958	
633300.63	4173850.44	0.11228	629800.63 4174200.44 0.02828	
630150.63	4174200.44	0.03825	630500.63 4174200.44 0.05892	
630850.63	4174200.44	0.06798	631200.63 4174200.44 0.06240	
631550.63	4174200.44	0.10671	631900.63 4174200.44 0.13596	
632250.63	4174200.44	0.16217	632600.63 4174200.44 0.17398	
632950.63	4174200.44	0.15928	633300.63 4174200.44 0.15237	
629800.63	4174550.44	0.04922	630150.63 4174550.44 0.06097	

630500.63	4174550.44	0.08389	630850.63	4174550.44	0.11195	
631200.63	4174550.44	0.11945	631550.63	4174550.44	0.18865	
631900.63	4174550.44	0.26545	632250.63	4174550.44	0.29688	
632600.63	4174550.44	0.25882	632950.63	4174550.44	0.23989	
633300.63	4174550.44	0.21838	629800.63	4174900.44	0.06468	
630150.63	4174900.44	0.08580	630500.63	4174900.44	0.12543	
630850.63	4174900.44	0.18619	631200.63	4174900.44	0.24765	
631550.63	4174900.44	0.47902	631900.63	4174900.44	0.68454	
632250.63	4174900.44	0.55524	632600.63	4174900.44	0.45328	
632950.63	4174900.44	0.38366	633300.63	4174900.44	0.32453	
629800.63	4175250.44	0.08061	630150.63	4175250.44	0.13031	
630500.63	4175250.44	0.21432	630850.63	4175250.44	0.36046	
631200.63	4175250.44	0.74061	631550.63	4175250.44	1.96951	
631900.63	4175250.44	1.57665	632250.63	4175250.44	1.12362	
632600.63	4175250.44	0.82099	632950.63	4175250.44	0.60371	
633300.63	4175250.44	0.46444	629800.63	4175600.44	0.10461	
630150.63	4175600.44	0.16499	630500.63	4175600.44	0.30969	
630850.63	4175600.44	0.76922	631200.63	4175600.44	5.46139	
631550.63	4175600.44	18.09111	631900.63	4175600.44	6.15667	
632250.63	4175600.44	2.66073	632600.63	4175600.44	1.25685	
632950.63	4175600.44	0.77212	633300.63	4175600.44	0.56034	
629800.63	4175950.44	0.11788	630150.63	4175950.44	0.18569	
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7GSBU)\Docur	ments\HRA\T	racv C ***	12/13/23			

977GSBU)\Documents\HRA\Tracy C

*** AERMET - VERSION 18081 *** ***

PAGE 92

15:02:10

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:

STCK13 ***

INCLUDING SOURCE(S): STCK13

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

X-COORD (	M) Y-COORD	O(M) CONC	X-C	OORD (M) Y-	COORD (M)	CONC
 630500.63	4175950.44	0.39558	630850.63	4175950.44	1.20179	
631200.63	4175950.44	3.62451	631550.63	4175950.44	2.47299	
631900.63	4175950.44	1.90856	632250.63	4175950.44	1.55673	
632600.63	4175950.44	1.01070	632950.63	4175950.44	0.68768	
633300.63	4175950.44	0.50769	629800.63	4176300.44	0.14467	
630150.63	4176300.44	0.26160	630500.63	4176300.44	0.50615	
630850.63	4176300.44	0.93517	631200.63	4176300.44	1.03089	
631550.63	4176300.44	0.82809	631900.63	4176300.44	0.75507	
632250.63	4176300.44	0.65575	632600.63	4176300.44	0.57711	
632950.63	4176300.44	0.45384	633300.63	4176300.44	0.36654	
629800.63	4176650.44	0.17486	630150.63	4176650.44	0.27751	
630500.63	4176650.44	0.43341	630850.63	4176650.44	0.54309	
631200.63	4176650.44	0.59243	631550.63	4176650.44	0.52669	
631900.63	4176650.44	0.47983	632250.63	4176650.44	0.41900	
632600.63	4176650.44	0.34447	632950.63	4176650.44	0.29274	
633300.63	4176650.44	0.25521	629800.63	4177000.44	0.17433	
630150.63	4177000.44	0.24250	630500.63	4177000.44	0.31763	
630850.63	4177000.44	0.36366	631200.63	4177000.44	0.38648	

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                             0.36446
                                                631900.63
                                                            4177000.44
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              4177000.44
                             0.29875
                                                632600.63
                                                            4177000.44
                                                                           0.25356
  632950.63
              4177000.44
                             0.21331
                                                633300.63
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                                                                           0.18301
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  631900.63
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                             0.22407
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                                                            4177350.44
                                                                           0.21353
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              4177350.44
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                             5.16023
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  631422.55
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                                                631268.42
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  631384.72
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                                                                           0.98264
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              4175003.36
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                                                631867.18
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  631849.92
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                             1.58432
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                             3.60865
                                                            4175923.77
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                                                631270.00
                                                            4175883.79
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                             3.62008
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                             5.03874
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                                                            4175843.82
                                                                           6.05728
*** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-
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977GSBU)\Documents\HRA\Tracy C *** 12/13/23

*** AERMET - VERSION 18081 *** ***

15:02:10

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*** MODELOPTs: CONC ELEV RURAL ADJ U*

*** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:

STCK13 ***

INCLUDING SOURCE(S): STCK13

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

X-COORD (	M) Y-COORI	O(M) CONC	X-CO	OORD (M) Y	Y-COORD (M)	CONC
 631270.95	4175823.83	7.40405	631271.26	4175803.84	9.19237	
631271.58	4175783.85	11.79867	631271.90	4175763.86	15.49327	
631272.21	4175743.87	20.26888	631272.53	4175723.88	26.59424	
631272.85	4175703.89	29.78273	631273.16	4175683.90	26.58261	
631273.48	4175663.91	19.68407	631273.79	4175643.92	15.02968	
631274.11	4175623.94	11.67276	631274.43	4175603.95	9.15786	
631274.74	4175583.96	7.37909	631275.06	4175563.97	5.85632	
631275.37	4175543.98	4.82702	631285.68	4175509.06	4.00589	
631295.68	4175494.14	3.84359	631305.67	4175479.21	3.44531	
631315.67	4175464.28	3.05186	631325.66	4175449.35	2.76544	
631335.66	4175434.43	2.76268	631358.67	4175426.77	3.22609	
631371.70	4175434.03	3.24903	631402.59	4175441.45	3.80710	
631420.46	4175441.60	4.46370	631438.33	4175441.76	5.06997	
631456.19	4175441.91	7.70905	631474.06	4175442.06	8.28231	
631491.93	4175428.58	8.56967	631474.21	4175414.65	7.75921	
631456.50	4175414.35	7.44161	631438.78	4175414.05	6.77960	
631421.06	4175413.74	5.93799	631403.35	4175413.44	5.09492	
631372.00	4175404.51	4.01192	631371.09	4175381.11	3.32877	

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                                                            4175296.47
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              4175286.39
                             2.07217
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                                                            4175276.30
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              4175246.05
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                                                            4175222.15
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  631592.55
                                                            4175194.53
              4175208.34
                             1.71822
                                                631605.15
                                                                           1.64352
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              4175180.72
                             1.56910
                                                631630.34
                                                            4175166.91
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                             1.43492
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                                                                           1.15800
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                                                            4175084.04
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                                                631731.13
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  631866.16
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                                                                           1.08409
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                                                631865.15
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                                                            4175223.29
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             4175242.91
                                                631862.44
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                             1.63355
                                                                           1.70743
*** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-
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977GSBU)\Documents\HRA\Tracy C *** 12/13/23 *** AERMET - VERSION 18081 *** ***

*** 15:02:10

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*** MODELOPTs: CONC ELEV RURAL ADJ U*

*** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:

STCK13 ***

INCLUDING SOURCE(S): STCK13

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

X-COORD (	M) Y-COORD	(M) CONC	X-C0	OORD (M) Y	-COORD (M)	CONC
 631862.10	4175282.14	1.78650	631861.77	4175301.75	1.87305	
631861.43	4175321.37	1.96861	631861.09	4175340.98	2.07648	
631860.75	4175360.60	2.20018	631860.41	4175380.21	2.34380	
631860.07	4175399.83	2.51194	631859.73	4175419.44	2.71008	
631859.40	4175439.06	2.94496	631859.06	4175458.67	3.22283	
631858.72	4175478.29	3.54980	631858.38	4175497.90	3.93059	
631858.04	4175517.52	4.36784	631857.70	4175537.13	4.86134	
631857.37	4175556.75	5.40899	631857.03	4175576.36	6.00349	
631856.69	4175595.98	6.63144	631856.35	4175615.59	7.26444	
631856.01	4175635.21	7.85608	631855.67	4175654.82	8.33956	
631855.33	4175674.44	8.63908	631855.00	4175694.05	8.68812	
631854.66	4175713.67	8.45837	631854.32	4175733.28	7.96807	
631853.98	4175752.90	7.28188	631853.64	4175772.51	6.49136	
631853.30	4175792.13	5.68317	631852.97	4175811.74	4.92302	
631852.63	4175831.36	4.24427	631852.29	4175850.97	3.65951	
631851.95	4175870.59	3.16566	631851.61	4175890.20	2.75581	
631851.27	4175909.82	2.41888	631850.94	4175929.43	2.14442	
631850.60	4175949.05	1.92063	631850.26	4175968.66	1.73748	

631830.54	4175988.13	1.58321	631811.15	4175987.98	1.58377
631791.77	4175987.83	1.58832	631772.39	4175987.67	1.59740
631753.00	4175987.52	1.61250	631733.62	4175987.37	1.63288
631714.24	4175987.22	1.65810	631694.85	4175987.07	1.68821
631675.47	4175986.92	1.72424	631656.09	4175986.77	1.76425
631636.70	4175986.62	1.80849	631617.32	4175986.46	1.85620
631597.94	4175986.31	1.90791	631578.55	4175986.16	1.96378
631559.17	4175986.01	2.02257	631539.79	4175985.86	2.08225
631520.40	4175985.71	2.14304	631501.02	4175985.56	2.27691
631481.64	4175985.40	2.77090	631462.25	4175985.25	3.05445
631442.87	4175985.10	3.06735	631423.49	4175984.95	3.09967
631404.10	4175984.80	3.13773	631384.72	4175984.65	3.19270
631365.34	4175984.50	3.05972	631345.95	4175984.35	2.97474
631326.57	4175984.19	3.00400	631307.19	4175984.04	2.99821
631287.80	4175983.89	2.97807	631050.63	4175100.50	0.36556
631050.63	4175200.50	0.47666	631050.63	4175300.50	0.63890
631050.63	4175400.50	0.89641	631050.63	4175500.50	1.30849
631050.63	4175600.50	2.02232	631050.63	4175700.50	2.62424
631050.63	4175800.50	2.96231	631050.63	4175900.50	2.83356
631050.63	4176000.50	2.26407	631050.63	4176100.50	1.68466
631150.63	4175100.50	0.41081	631150.63	4175200.50	0.56672
631150.63	4175300.50	0.82100	631150.63	4175400.50	1.33074
*** AERMOD	- VERSION	19191 ***	*** C:\Users\Smith\Drop	box\My PC (I	DESKTOP-
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*** AERMET - VERSION 18081 *** ***

15:02:10

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*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:

STCK13 ***

INCLUDING SOURCE(S): STCK13

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

X-COORD (	M) Y-COORI	O(M) CONC	X-CO	OORD (M)	Y-COORD (M)	CONC
 631150.63	4175500.50	2.50425	631150.63	4175600.50	4.43041	
631150.63	4175700.50	7.12613	631150.63	4175800.50	7.50161	
631150.63	4175900.50	4.57347	631150.63	4176000.50	2.58743	
631150.63	4176100.50	1.71718	631250.63	4175100.50	0.46637	
631250.63	4175200.50	0.66407	631250.63	4175300.50	1.05250	
631250.63	4175400.50	1.73187	631250.63	4175500.50	2.62872	
631250.63	4175600.50	7.14186	631250.63	4175700.50	24.67377	
631250.63	4175800.50	10.01282	631250.63	4175900.50	3.88001	
631250.63	4176000.50	2.64537	631250.63	4176100.50	1.72998	
631350.63	4175100.50	0.58446	631350.63	4175200.50	0.85171	
631350.63	4175300.50	1.34680	631350.63	4175400.50	3.31194	
631350.63	4175500.50	3.60545	631350.63	4175600.50	10.72221	
631350.63	4175700.50	38.00805	631350.63	4175800.50	7.18949	
631350.63	4175900.50	2.23251	631350.63	4176000.50	2.80515	
631350.63	4176100.50	1.62006	631450.63	4175100.50	0.77188	
631450.63	4175200.50	1.19623	631450.63	4175300.50	1.99411	
631450.63	4175400.50	6.69112	631450.63	4175500.50	7.44406	
631450.63	4175600.50	15.85930	631450.63	4175700.50	48.58465	

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631450.63
                4175800.50
                              7.92530
                                                  631450.63
                                                             4175900.50
                                                                            2.72570
    631450.63
                4176000.50
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                                                  631450.63
                                                             4176100.50
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                              0.99948
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                4175100.50
                                                  631550.63
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                                                             4175400.50
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                              9.50516
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                4175700.50
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                                                             4175800.50
                                                                            9.53538
                4175900.50
                              3.68884
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                                                  631550.63
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                                                                            8.74871
  *** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-
977GSBU)\Documents\HRA\Tracy C ***
                                         12/13/23
*** AERMET - VERSION 18081 *** ***
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                                                                                     15:02:10
                                                                PAGE 96
*** MODELOPTs: CONC ELEV RURAL ADJ U*
STCK13 ***
                  INCLUDING SOURCE(S):
                                             STCK13
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*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3

X-COORD (M) Y-COORD (M)	CONC X-CO	OORD (M) Y-	COORD (M)	CONC
631850.63 4175800.50 5.3717	9 631850.63	4175900.50	2.57101	
631850.63 4176000.50 1.5020	3 631850.63	4176100.50	1.08303	
631950.63 4175100.50 1.0806	5 631950.63	4175200.50	1.32713	
631950.63 4175300.50 1.6728	8 631950.63	4175400.50	2.30336	
631950.63 4175500.50 3.5549	0 631950.63	4175600.50	5.50455	
631950.63 4175700.50 6.6103	1 631950.63	4175800.50	4.52875	
631950.63 4175900.50 2.4853	9 631950.63	4176000.50	1.52143	
631950.63 4176100.50 1.0691	6 632050.63	4175100.50	0.96805	
632050.63 4175200.50 1.1854	0 632050.63	4175300.50	1.51744	
632050.63 4175400.50 2.0909	1 632050.63	4175500.50	3.06384	
632050.63 4175600.50 4.3492	2 632050.63	4175700.50	5.00415	
632050.63 4175800.50 3.7277	8 632050.63	4175900.50	2.30887	
632050.63 4176000.50 1.5052	5 632050.63	4176100.50	1.07875	
*** AERMOD - VERSION 19191 ***	*** C:\Users\Smith\Drop	box\My PC (D	ESKTOP-	
977GSBU)\Documents\HRA\Tracy C ***	12/13/23			
*** AERMET - VERSION 18081 ***	***		***	15:02:10
		PAGE 97		

*** MODELOPTs: CONC ELEV RURAL ADJ U*

STCK14 ***

INCLUDING SOURCE(S): STCK14 ,

# *** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3

X-COORD (	M) Y-COORE	O (M) CC	ONC X-CO	OORD (M)	Y-COORD (M	) CONC
632121.21	4174952.36	0.78791	632304.44	4174354.52	2 0.24450	
632192.15	4174956.32	0.75381	632420.62			
632418.97	4175552.92	1.86669	631187.00	4175727.00		
631166.00	4175729.00	4.70933	631121.00	4175719.00		
631035.00	4174830.00	0.23547	631106.00	4174825.00		
631937.00	4174528.00	0.31302	631322.00	4174522.00		
629800.63	4173850.44	0.02161	630150.63	4173850.44	4 0.02590	
630500.63	4173850.44	0.03533	630850.63	4173850.44		
631200.63	4173850.44	0.04238	631550.63	4173850.44	4 0.07242	
631900.63	4173850.44	0.08295	632250.63	4173850.44		
632600.63	4173850.44	0.12782	632950.63	4173850.44	4 0.12898	
633300.63	4173850.44	0.12026	629800.63	4174200.44	4 0.03059	
630150.63	4174200.44	0.04121	630500.63	4174200.4	4 0.06392	
630850.63	4174200.44	0.07565	631200.63	4174200.44		
631550.63	4174200.44	0.12039	631900.63	4174200.44		
632250.63	4174200.44	0.18753	632600.63	4174200.44	4 0.19129	
632950.63	4174200.44	0.17305	633300.63	4174200.44		
629800.63	4174550.44	0.05383	630150.63	4174550.4	4 0.06785	
630500.63	4174550.44	0.09231	630850.63	4174550.4	4 0.12775	
631200.63	4174550.44	0.13877	631550.63	4174550.4		
631900.63	4174550.44	0.32451	632250.63	4174550.4	4 0.33764	
632600.63	4174550.44	0.28794	632950.63	4174550.4	4 0.26993	
633300.63	4174550.44	0.24326	629800.63	4174900.44	4 0.06985	
630150.63	4174900.44	0.09723	630500.63	4174900.4	4 0.14561	
630850.63	4174900.44	0.21864	631200.63	4174900.4	4 0.31253	
631550.63	4174900.44	0.63698	631900.63	4174900.4	4 0.84104	
632250.63	4174900.44	0.64469	632600.63	4174900.4	4 0.52846	
632950.63	4174900.44	0.43632	633300.63	4174900.4	4 0.36333	
629800.63	4175250.44	0.08375	630150.63	4175250.4	4 0.13796	
630500.63	4175250.44	0.24751	630850.63	4175250.4	4 0.46537	
631200.63	4175250.44	1.18864	631550.63	4175250.4	4 3.00773	
631900.63	4175250.44	1.95791	632250.63	4175250.4	4 1.40700	
632600.63	4175250.44	0.95066	632950.63	4175250.4	4 0.66659	
633300.63	4175250.44	0.50181	629800.63	4175600.44	4 0.10577	
630150.63	4175600.44	0.16752	630500.63	4175600.4	4 0.32328	
630850.63	4175600.44	0.89445	631200.63	4175600.44		
631550.63	4175600.44	28.52918	631900.63	4175600.4	4 7.58098	
632250.63	4175600.44	2.87824	632600.63	4175600.4	4 1.28339	
632950.63	4175600.44	0.77571	633300.63	4175600.4	4 0.56183	
629800.63	4175950.44	0.12309	630150.63	4175950.4	4 0.20031	
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*** MODELOPTS: CONC ELEV RURAL ADJ U*

INCLUDING SOURCE(S): STCK14 ,

## *** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3

X-COORD (M) Y-COORD (M) CONC X-COORD (M) Y-COORD (M)	
630500.63 4175950.44 0.43181 630850.63 4175950.44 1.16474	
631200.63 4175950.44 2.23399 631550.63 4175950.44 1.98754	
631900.63 4175950.44 1.27259 632250.63 4175950.44 1.19195	
632600.63 4175950.44 0.87362 632950.63 4175950.44 0.62607	
633300.63 4175950.44 0.47046 629800.63 4176300.44 0.15432	
630150.63 4176300.44 0.27210 630500.63 4176300.44 0.49049	
630850.63 4176300.44 0.78199 631200.63 4176300.44 0.86835	
631550.63 4176300.44 0.72994 631900.63 4176300.44 0.67450	
632250.63 4176300.44 0.56927 632600.63 4176300.44 0.49730	
632950.63 4176300.44 0.40746 633300.63 4176300.44 0.33004	
629800.63 4176650.44 0.17593 630150.63 4176650.44 0.27042	
630500.63 4176650.44 0.39812 630850.63 4176650.44 0.47880	
631200.63 4176650.44 0.52826 631550.63 4176650.44 0.48813	
631900.63 4176650.44 0.43920 632250.63 4176650.44 0.38613	
632600.63 4176650.44 0.32362 632950.63 4176650.44 0.26465	
633300.63 4176050.44 0.23143 629800.63 4177000.44 0.17067	
630150.63 4177000.44 0.22962 630500.63 4177000.44 0.29019	
630850.63 4177000.44 0.33359 631200.63 4177000.44 0.35325	
631550.63 4177000.44 0.33959 631900.63 4177000.44 0.28492	
632250.63 4177000.44 0.28175 632600.63 4177000.44 0.23671	
632950.63 4177000.44 0.20234 633300.63 4177000.44 0.17125	
629800.63 4177350.44 0.15121 630150.63 4177350.44 0.18411	
630500.63 4177350.44 0.20717 630850.63 4177350.44 0.24597	
631200.63 4177350.44 0.24392 631550.63 4177350.44 0.24077	
631900.63 4177350.44 0.21285 632250.63 4177350.44 0.19902	
632600.63 4177350.44 0.18523 632950.63 4177350.44 0.15828	
633300.63 4177350.44 0.13980 631670.70 4175493.59 9.05032	
631669.80 4175641.41 12.80724 631665.32 4175796.39 3.04411	
631417.17 4175826.85 2.74163 631417.17 4175673.66 13.65598	
631422.55 4175484.63 8.98983 631268.42 4175983.74 1.98023	
631275.69 4175523.99 11.52631 631345.65 4175419.50 5.94798	
631384.72 4175441.30 4.37980 631491.93 4175442.21 12.41742	
631491.93 4175414.95 11.13454 631385.63 4175413.14 5.82390	
631358.37 4175395.87 5.97353 631409.25 4175336.81 3.90815	
631567.35 4175235.96 2.82485 631756.33 4175028.80 1.28400	
631807.22 4175003.36 1.16450 631867.18 4174987.91 1.07375	
631849.92 4175988.28 1.14680 631268.74 4175963.75 2.23882	
631269.05 4175943.76 2.32514 631269.37 4175923.77 2.46036	
631269.68 4175903.78 1.92002 631270.00 4175883.79 2.07969	
631270.32 4175863.81 2.25961 631270.63 4175843.82 2.48243	
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PAGE 99	

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

INCLUDING SOURCE(S): STCK14 ,

# *** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3

X-COORD (M	Y-COORD (	(M) CONC	X-CC	OORD (M) Y-C	OORD (M)	CONC
631270.95	4175823.83	2.88692	631271.26	4175803.84	3.27298	
	1175783.85	3.87144	631271.90	4175763.86	4.70833	
	1175743.87	5.75596	631272.53	4175723.88	6.98287	
	1175703.89	8.74489	631273.16	4175683.90	11.00486	
	1175663.91	13.06903	631273.79	4175643.92	15.79355	
		21.17556	631274.43	4175603.95	27.48484	
		26.31798	631275.06	4175563.97	19.50864	
	1175543.98	14.59667	631285.68	4175509.06	11.13166	
	1175494.14	10.62707	631305.67	4175479.21	9.49751	
	1175464.28	7.68251	631325.66	4175449.35	6.39334	
631335.66	1175434.43	5.99064	631358.67	4175426.77	5.70821	
	1175434.03	4.92313	631402.59	4175441.45	5.02321	
631420.46	1175441.60	5.68679	631438.33	4175441.76	6.25707	
		12.06789	631474.06	4175442.06	12.65545	
631491.93		11.91555	631474.21	4175414.65	11.25481	
631456.50	1175414.35	11.14524	631438.78	4175414.05	10.58198	
	1175413.74	8.92493	631403.35	4175413.44	7.10007	
	1175404.51	6.27665	631371.09	4175381.11	5.39028	
	1175366.34	4.91615	631396.53	4175351.58	4.43857	
	1175326.73	3.75602	631440.87	4175316.64	3.69433	
	4175306.56	3.61215	631472.49	4175296.47	3.51315	
	1175286.39	3.41591	631504.11	4175276.30	3.31162	
631519.92	1175266.22	3.18813	631535.73	4175256.13	3.07394	
631551.54	1175246.05	2.94799	631579.95	4175222.15	2.66456	
631592.55	1175208.34	2.51199	631605.15	4175194.53	2.37605	
631617.74	1175180.72	2.23958	631630.34	4175166.91	2.12450	
631642.94	4175153.10	2.01022	631655.54	4175139.29	1.90944	
631668.14	1175125.47	1.81086	631680.74	4175111.66	1.71752	
631693.34	1175097.85	1.63258	631705.94	4175084.04	1.55481	
631718.53	1175070.23	1.48077	631731.13	4175056.42	1.41136	
	1175042.61	1.34673	631773.29	4175020.32	1.24341	
	4175011.84	1.20673	631822.21	4174999.50	1.13996	
631837.20		1.11844		4174991.77		
631866.84	1175007.53	1.12312	631866.50	4175027.14	1.18110	
	1175046.76	1.25290	631865.83	4175066.37	1.31466	
	1175085.99	1.37317	631865.15	4175105.60	1.43467	
	1175125.22	1.50091	631864.47	4175144.83	1.56653	
	1175164.45	1.63847	631863.80	4175184.06	1.71666	
	1175203.68	1.80340	631863.12	4175223.29	1.89800	
	1175242.91	1.99901	631862.44	4175262.52	2.11843	
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*** MODELOPTs: CONC ELEV RURAL ADJ_U*

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STCK14 ***

INCLUDING SOURCE(S): STCK14

# *** DISCRETE CARTESIAN RECEPTOR POINTS ***

X-COORD (	M) Y-COORI	O(M) CONO	C X-CC	OORD (M) Y-	COORD (M)	) CONC
631862 10	4175282.14	2.25973	631861.77	4175301.75	2.42268	
631861.43	4175321.37	2.60912	631861.09	4175340.98	2.83537	
631860.75	4175360.60	3.10591	631860.41	4175380.21	3.43059	
631860.07	4175399.83	3.79959	631859.73	4175419.44	4.22395	
631859.40	4175439.06	4.70664	631859.06		5.25020	
631858.72	4175478.29	5.84586	631858.38	4175497.90	6.47784	
631858.04	4175517.52	7.12087	631857.70	4175537.13	7.72791	
631857.37	4175556.75	8.22592	631857.03	4175576.36	8.53875	
631856.69	4175595.98	8.60313	631856.35	4175615.59	8.39168	
631856.01	4175635.21	7.92319	631855.67	4175654.82	7.26428	
631855.33	4175674.44	6.50036	631855.00		5.71395	
631854.66	4175713.67	4.96653	631854.32	4175733.28	4.29288	
631853.98	4175752.90	3.70707	631853.64	4175772.51	3.21198	
631853.30	4175792.13	2.80046	631852.97	4175811.74	2.46376	
631852.63	4175831.36	2.18801	631852.29	4175850.97	1.96198	
631851.95	4175870.59	1.77421	631851.61	4175890.20	1.61790	
631851.27	4175909.82	1.48698	631850.94	4175929.43	1.37700	
631850.60	4175949.05	1.28538	631850.26	4175968.66	1.21025	
631830.54	4175988.13	1.15965	631811.15	4175987.98	1.17570	
631791.77	4175987.83	1.19699	631772.39	4175987.67	1.22129	
631753.00	4175987.52	1.24810	631733.62	4175987.37	1.27570	
631714.24	4175987.22	1.30503	631694.85	4175987.07	1.33539	
631675.47	4175986.92	1.36648	631656.09	4175986.77	1.39923	
631636.70	4175986.62	1.43076	631617.32	4175986.46	1.46176	
631597.94	4175986.31	1.49324	631578.55	4175986.16	1.52518	
631559.17	4175986.01	1.55595	631539.79	4175985.86	1.58630	
631520.40	4175985.71	1.61756	631501.02	4175985.56	1.68555	
631481.64	4175985.40	2.01907	631462.25	4175985.25	2.16932	
631442.87	4175985.10	2.16633	631423.49	4175984.95	2.18794	
631404.10	4175984.80	2.32769	631384.72	4175984.65	2.36980	
631365.34	4175984.50	2.26958	631345.95	4175984.35	2.23518	
631326.57	4175984.19	2.14767	631307.19		2.09067	
631287.80	4175983.89	2.05433	631050.63	4175100.50	0.47996	
631050.63	4175200.50	0.64729	631050.63	4175300.50	0.90319	
631050.63	4175400.50	1.31737	631050.63	4175500.50	1.85165	
631050.63	4175600.50	2.63241	631050.63	4175700.50	2.89221	
631050.63	4175800.50	2.66134	631050.63	4175900.50	2.18752	
631050.63	4176000.50	1.66179	631050.63	4176100.50	1.25988	
631150.63	4175100.50	0.55750	631150.63	4175200.50	0.81046	
631150.63	4175300.50	1.32909	631150.63	4175400.50	2.15765	
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INCLUDING SOURCE(S): STCK14 ,

# *** DISCRETE CARTESIAN RECEPTOR POINTS ***

X-COORD (M) Y-COORD (M) CONC	X-COORD (M) Y-C	COORD (M) CONC
631150.63 4175500.50 3.97221	631150.63 4175600.50	6.26655
631150.63 4175700.50 5.66607	631150.63 4175800.50	4.18323
631150.63 4175900.50 2.74942	631150.63 4176000.50	1.74118
631150.63 4176100.50 1.29113	631250.63 4175100.50	0.64562
631250.63 4175200.50 0.97932	631250.63 4175300.50	1.69085
631250.63 4175400.50 3.20681	631250.63 4175500.50	7.62498
631250.63 4175400.50 3.20001	631250.63 4175700.50	7.56679
631250.63 4175800.50 20.27501	631250.63 4175900.50	1.90889
631250.63 4176000.50 3.33646	631250.63 4176100.50	1.32089
631350.63 4175100.50 0.83240	631350.63 4175200.50	1.33084
631350.63 4175100.50 0.63240	631350.63 4175400.50	5.77032
631350.63 4175500.50 2.28049	631350.63 4175600.50	34.55624
631350.63 4175700.50 7.49348	631350.63 4175800.50	2.70021
631350.63 4175700.50 7.49348	631350.63 4176000.50	2.05810
631350.63 4176100.50 1.29033	631450.63 4175100.50	1.14146
631450.63 4175200.50 1.89410	631450.63 4175300.50	3.40832
631450.63 4175200.50 1.89410	631450.63 4175500.50	12.26489
631450.63 4175400.50 10.03871	631450.63 4175700.50	8.20908
	631450.63 4175700.50	1.88492
631450.63 4176000.50 1.83872		1.18182
631550.63 4175100.50 1.46983	631550.63 4175200.50	2.35300
631550.63 4175300.50 3.83126	631550.63 4175400.50	6.10680
631550.63 4175500.50 14.31592	631550.63 4175600.50	28.52917
631550.63 4175700.50 9.15175	631550.63 4175800.50	3.21291
631550.63 4175900.50 2.26760	631550.63 4176000.50	1.48625
631550.63 4176100.50 1.08293	631650.63 4175100.50	1.63323
631650.63 4175200.50 2.38165	631650.63 4175300.50	3.34536
631650.63 4175400.50 4.94402	631650.63 4175500.50	9.93657
631650.63 4175600.50 16.25790	631650.63 4175700.50	7.78189
631650.63 4175800.50 3.15815	631650.63 4175900.50	1.85688
631650.63 4176000.50 1.35449	631650.63 4176100.50	1.04341
631750.63 4175100.50 1.60604	631750.63 4175200.50	2.11499
631750.63 4175300.50 2.77691	631750.63 4175400.50	4.29501
631750.63 4175500.50 8.15777	631750.63 4175600.50	11.65188
631750.63 4175700.50 6.45128	631750.63 4175800.50	2.74336
631750.63 4175900.50 1.61671	631750.63 4176000.50	1.21347
631750.63 4176100.50 0.97795	631850.63 4175100.50	1.44423
631850.63 4175200.50 1.81971	631850.63 4175300.50	2.43684
631850.63 4175400.50 3.85343	631850.63 4175500.50	6.66986
631850.63 4175600.50 8.72501	631850.63 4175700.50	5.50129
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*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:

STCK14 ***

INCLUDING SOURCE(S): STCK14

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3

X-COORD (M) Y-COOR	D (M) CONC	X-CO	OORD (M) Y-	-COORD (M)	CONC
631850.63 4175800.50	2.65021	631850.63	4175900.50	1.54645	
631850.63 4176000.50	1.11193	631850.63	4176100.50	0.91989	
631950.63 4175100.50	1.27391	631950.63	4175200.50	1.61197	
631950.63 4175300.50	2.21386	631950.63	4175400.50	3.41862	
631950.63 4175500.50	5.36613	631950.63	4175600.50	6.59823	
631950.63 4175700.50	4.62016	631950.63	4175800.50	2.55147	
631950.63 4175900.50	1.55602	631950.63	4176000.50	1.08824	
631950.63 4176100.50	0.86925	632050.63	4175100.50	1.14822	
632050.63 4175200.50	1.46766	632050.63	4175300.50	2.01640	
632050.63 4175400.50	2.95629	632050.63	4175500.50	4.25452	
632050.63 4175600.50	4.99640	632050.63	4175700.50	3.79674	
632050.63 4175800.50	2.37047	632050.63	4175900.50	1.53818	
632050.63 4176000.50	1.10044	632050.63	4176100.50	0.84207	
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977GSBU)\Documents\HRA\T	racy C *** 12/1	3/23	•		
*** AERMET - VERSION 18	081 *** ***			***	15:02:10
			PAGE 103	3	

*** MODELOPTs: CONC ELEV RURAL ADJ U*

*** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:

STCK2

INCLUDING SOURCE(S): STCK2

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

X-COORD (	M) Y-COORD	(M) CONC	X-C0	OORD (M)	Y-COORD (M)	CONC
 632121.21	4174952.36	0.65808	632304.44	4174354.52	2 0.17877	
632192.15	4174956.32	0.73050	632420.62	4175510.15	3.40534	
632418.97	4175552.92	4.01149	631187.00	4175727.00	0.59642	
631166.00	4175729.00	0.56349	631121.00	4175719.00	0.50191	
631035.00	4174830.00	0.12978	631106.00	4174825.00	0.13813	
631937.00	4174528.00	0.17941	631322.00	4174522.00	0.10636	
629800.63	4173850.44	0.01747	630150.63	4173850.44	0.02046	
630500.63	4173850.44	0.02677	630850.63	4173850.44	0.04161	
631200.63	4173850.44	0.04355	631550.63	4173850.44	0.04721	
631900.63	4173850.44	0.05370	632250.63	4173850.44	0.08028	
632600.63	4173850.44	0.09422	632950.63	4173850.44	0.11367	
633300.63	4173850.44	0.12429	629800.63	4174200.44	1 0.02404	
630150.63	4174200.44	0.03179	630500.63	4174200.44	0.04327	
630850.63	4174200.44	0.05446	631200.63	4174200.44	0.06663	
631550.63	4174200.44	0.07583	631900.63	4174200.44	0.09738	
632250.63	4174200.44	0.13341	632600.63	4174200.44	0.15995	

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632950.63
               4174200.44
                              0.18219
                                                  633300.63
                                                             4174200.44
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    629800.63
               4174550.44
                              0.04022
                                                  630150.63
                                                             4174550.44
                                                                            0.04918
    630500.63
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                                                  630850.63
                                                             4174550.44
                                                                            0.07949
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                              0.10988
                                                  631550.63
                                                             4174550.44
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                                                                            0.25746
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                              0.17740
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                              0.06227
                                                  630500.63
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                                                                            0.09224
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                              0.12227
                                                  631200.63
                                                             4174900.44
                                                                            0.16969
    631550.63
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                              0.25159
                                                  631900.63
                                                             4174900.44
                                                                            0.38316
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                              0.64718
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                              0.05362
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                                                             4175250.44
                                                                            0.07946
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                              0.12470
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                                                             4175250.44
                                                                            0.18678
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                              0.30894
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                                                                            0.64060
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                               1.48496
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                                                             4175600.44
                                                                            0.06773
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                              0.09626
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                                                                            0.14965
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                                                             4175600.44
                                                                            0.54612
    630850.63
                              0.25591
                                                  631200.63
                                                  631900.63
    631550.63
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                              2.79272
                                                             4175600.44
                                                                            7.36151
                              6.68579
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               4175600.44
                                                  632600.63
                                                             4175600.44
                                                                            2.99260
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               4175600.44
                               1.46192
                                                  633300.63
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                                                                            0.90175
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                              0.07277
                                                  630150.63
                                                             4175950.44
                                                                            0.10174
 *** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-
                                         12/13/23
*** AERMET - VERSION 18081 *** ***
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**PAGE 104** 

*** MODELOPTs: CONC ELEV RURAL ADJ U*

*** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:

*** STCK2

> **INCLUDING SOURCE(S):** STCK2

> > *** DISCRETE CARTESIAN RECEPTOR POINTS ***

X-COORD (	M) Y-COORD	(M) CONC	X-Co	OORD (M) Y-	COORD (M)	CONC
 630500.63	4175950.44	0.16404	630850.63	4175950.44	0.29846	
631200.63	4175950.44	0.73147	631550.63	4175950.44	1.36109	
631900.63	4175950.44	2.47690	632250.63	4175950.44	1.76529	
632600.63	4175950.44	1.69353	632950.63	4175950.44	1.16618	
633300.63	4175950.44	0.78394	629800.63	4176300.44	0.08247	
630150.63	4176300.44	0.12450	630500.63	4176300.44	0.20610	
630850.63	4176300.44	0.38367	631200.63	4176300.44	0.70715	
631550.63	4176300.44	0.87742	631900.63	4176300.44	0.80421	
632250.63	4176300.44	0.74353	632600.63	4176300.44	0.64812	
632950.63	4176300.44	0.59740	633300.63	4176300.44	0.50340	
629800.63	4176650.44	0.09816	630150.63	4176650.44	0.15451	
630500.63	4176650.44	0.23446	630850.63	4176650.44	0.36565	
631200.63	4176650.44	0.47782	631550.63	4176650.44	0.52016	
631900.63	4176650.44	0.50145	632250.63	4176650.44	0.45087	
632600.63	4176650.44	0.42609	632950.63	4176650.44	0.36358	
633300.63	4176650.44	0.31053	629800.63	4177000.44	0.11254	

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                               0.15736
                                                  630500.63
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                4177000.44
                               0.29200
                                                              4177000.44
                                                                             0.32432
                                                                             0.34498
     631550.63
                4177000.44
                               0.36836
                                                  631900.63
                                                              4177000.44
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                4177000.44
                               0.31052
                                                  632600.63
                                                              4177000.44
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     632950.63
                4177000.44
                                                              4177000.44
                                                                             0.23140
                               0.26553
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                                                              4177350.44
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                                                                             0.21951
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                4177350.44
                               0.18349
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                                                              4177350.44
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    631900.63
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                                                  632950.63
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                               8.45479
                                                  631665.32
                                                              4175796.39
                                                                             4.84774
    631417.17
                4175826.85
                               1.71820
                                                  631417.17
                                                              4175673.66
                                                                             1.50091
    631422.55
                4175484.63
                               0.83574
                                                  631268.42
                                                              4175983.74
                                                                             0.90555
    631275.69
                4175523.99
                               0.60055
                                                  631345.65
                                                              4175419.50
                                                                             0.61752
    631384.72
                4175441.30
                                                  631491.93
                                                              4175442.21
                                                                             0.89101
                               0.64334
     631491.93
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                                                  631385.63
                                                              4175413.14
                                                                             0.60915
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                                                              4175336.81
                                                                             0.55745
     631567.35
                4175235.96
                               0.66660
                                                  631756.33
                                                              4175028.80
                                                                             0.40764
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                4175003.36
                               0.41444
                                                  631867.18
                                                              4174987.91
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    631849.92
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                                                  631268.74
                                                              4175963.75
                                                                             0.90455
                                                                             0.89203
                4175943.76
                               0.89910
                                                  631269.37
    631269.05
                                                              4175923.77
                                                  631270.00
    631269.68
                4175903.78
                               0.88317
                                                              4175883.79
                                                                             0.87437
    631270.32
                4175863.81
                               0.86627
                                                  631270.63
                                                              4175843.82
                                                                             0.86130
  *** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-
977GSBU)\Documents\HRA\Tracy C ***
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*** AERMET - VERSION 18081 *** ***
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*** MODELOPTs: CONC ELEV RURAL ADJ U*

*** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:

STCK2 ***

> **INCLUDING SOURCE(S):** STCK2

> > *** DISCRETE CARTESIAN RECEPTOR POINTS ***

X-COORD (	M) Y-COORD	(M) CONC	X-Co	OORD (M) Y	C-COORD (M)	CONC
 631270.95	4175823.83	0.85531	631271.26	4175803.84	0.84695	
631271.58	4175783.85	0.83851	631271.90	4175763.86	0.79300	
631272.21	4175743.87	0.78285	631272.53	4175723.88	0.78032	
631272.85	4175703.89	0.77854	631273.16	4175683.90	0.76678	
631273.48	4175663.91	0.74750	631273.79	4175643.92	0.72592	
631274.11	4175623.94	0.70488	631274.43	4175603.95	0.67817	
631274.74	4175583.96	0.65387	631275.06	4175563.97	0.63005	
631275.37	4175543.98	0.61463	631285.68	4175509.06	0.60864	
631295.68	4175494.14	0.61157	631305.67	4175479.21	0.61808	
631315.67	4175464.28	0.62635	631325.66	4175449.35	0.62535	
631335.66	4175434.43	0.62970	631358.67	4175426.77	0.58891	
631371.70	4175434.03	0.61998	631402.59	4175441.45	0.69845	
631420.46	4175441.60	0.70011	631438.33	4175441.76	0.75012	
631456.19	4175441.91	0.79851	631474.06	4175442.06	0.83713	
631491.93	4175428.58	0.83872	631474.21	4175414.65	0.74980	
631456.50	4175414.35	0.70019	631438.78	4175414.05	0.68265	

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                                                631371.09
                                                           4175381.11
                                                                          0.58621
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                             0.57895
                                                631396.53
                                                           4175351.58
                                                                          0.56317
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              4175326.73
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                                                631440.87
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                             0.58994
                                                           4175296.47
                                                                          0.60741
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              4175306.56
                                                631472.49
  631488.30
              4175286.39
                             0.61635
                                                631504.11
                                                           4175276.30
                                                                          0.61380
  631519.92
              4175266.22
                             0.61451
                                                631535.73
                                                           4175256.13
                                                                          0.62582
  631551.54
              4175246.05
                             0.64015
                                                631579.95
                                                           4175222.15
                                                                          0.69612
  631592.55
              4175208.34
                             0.72001
                                                631605.15
                                                           4175194.53
                                                                          0.68382
  631617.74
              4175180.72
                             0.61057
                                                631630.34
                                                           4175166.91
                                                                          0.57912
  631642.94
                                                           4175139.29
                                                                          0.52576
              4175153.10
                             0.54800
                                                631655.54
  631668.14
              4175125.47
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  631693.34
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                                                           4175084.04
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              4175070.23
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                                                                          0.42660
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              4175042.61
                             0.41658
                                                631773.29
                                                           4175020.32
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              4174995.64
                             0.43035
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                                                           4174991.77
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                             0.47590
                                                631866.50
                                                           4175027.14
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                             0.53965
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                                                631865.15
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  631865.49
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                                                           4175105.60
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                                                631864.47
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              4175164.45
                             0.81454
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                                                631863.12
                                                           4175223.29
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             4175242.91
                             1.29887
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                                                           4175262.52
*** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-
                                       12/13/23
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*** AERMET - VERSION 18081 *** ***

*** 15:02:10

**PAGE 106** 

*** MODELOPTs: CONC ELEV RURAL ADJ U*

*** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:

*** STCK2

> **INCLUDING SOURCE(S):** STCK2

> > *** DISCRETE CARTESIAN RECEPTOR POINTS ***

X-COORD (	M) Y-COORI	O(M) CONC	X-COORD (M) Y-COORD (M) C	ONC
 631862.10	4175282.14	1.36912	631861.77 4175301.75 0.99612	
631861.43	4175321.37	1.00755	631861.09 4175340.98 1.07409	
631860.75	4175360.60	1.14810	631860.41 4175380.21 1.29013	
631860.07	4175399.83	1.38981	631859.73 4175419.44 1.51442	
631859.40	4175439.06	1.71601	631859.06 4175458.67 1.89467	
631858.72	4175478.29	2.19971	631858.38 4175497.90 2.55955	
631858.04	4175517.52	2.93494	631857.70 4175537.13 3.58429	
631857.37	4175556.75	4.41389	631857.03 4175576.36 5.38592	
631856.69	4175595.98	6.78490	631856.35 4175615.59 9.01804	
631856.01	4175635.21	12.84843	631855.67 4175654.82 18.94182	
631855.33	4175674.44	32.40446	631855.00 4175694.05 63.82604	
631854.66	4175713.67	62.97234	631854.32 4175733.28 31.28295	
631853.98	4175752.90	15.16638	631853.64 4175772.51 10.13214	
631853.30	4175792.13	7.32608	631852.97 4175811.74 5.74266	
631852.63	4175831.36	4.79111	631852.29 4175850.97 4.06816	
631851.95	4175870.59	3.49552	631851.61 4175890.20 3.09591	

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631851.27
               4175909.82
                               2.71239
                                                  631850.94
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    631850.60
               4175949.05
                              2.96221
                                                  631850.26
                                                                            2.49687
    631830.54
               4175988.13
                               2.20963
                                                  631811.15
                                                             4175987.98
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                                                  631733.62
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    631714.24
               4175987.22
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                                                  631694.85
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                                                  631656.09
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               4175986.31
                               1.88740
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                                                             4175986.16
                                                                            2.34691
    631559.17
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                               2.66432
                                                  631539.79
                                                             4175985.86
                                                                            2.75035
                                                                            2.60855
    631520.40
               4175985.71
                              2.71120
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                                                             4175985.56
                                                                             1.74927
    631481.64
               4175985.40
                               2.16769
                                                  631462.25
                                                              4175985.25
    631442.87
               4175985.10
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                                                  631423.49
                                                             4175984.95
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    631404.10
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                               1.41715
                                                  631384.72
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                                                             4175984.35
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    631326.57
               4175984.19
                               1.08931
                                                  631307.19
                                                             4175984.04
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               4175983.89
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                                                  631050.63
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                                                  631050.63
                                                             4175300.50
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                                                             4175500.50
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                              0.38081
                                                  631050.63
                                                             4175700.50
                                                                            0.40646
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               4175800.50
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                                                                            0.45095
                                                                            0.53069
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                                                             4176100.50
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 *** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-
                                         12/13/23
*** AERMET - VERSION 18081 *** ***
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**PAGE 107** 

*** MODELOPTs: CONC ELEV RURAL ADJ U*

*** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:

STCK2 ***

> **INCLUDING SOURCE(S):** STCK2

> > *** DISCRETE CARTESIAN RECEPTOR POINTS ***

X-COORD (	M) Y-COORD	(M) CONC	X-Co	OORD (M) Y-	COORD (M)	CONC
 631150.63	4175500.50	0.41485	631150.63	4175600.50	0.47699	
631150.63	4175700.50	0.53583	631150.63	4175800.50	0.58217	
631150.63	4175900.50	0.61433	631150.63	4176000.50	0.65131	
631150.63	4176100.50	0.67530	631250.63	4175100.50	0.25010	
631250.63	4175200.50	0.30256	631250.63	4175300.50	0.37262	
631250.63	4175400.50	0.45486	631250.63	4175500.50	0.53663	
631250.63	4175600.50	0.62584	631250.63	4175700.50	0.72011	
631250.63	4175800.50	0.79442	631250.63	4175900.50	0.82693	
631250.63	4176000.50	0.85962	631250.63	4176100.50	0.85919	
631350.63	4175100.50	0.29055	631350.63	4175200.50	0.35875	
631350.63	4175300.50	0.46050	631350.63	4175400.50	0.59338	
631350.63	4175500.50	0.72739	631350.63	4175600.50	0.91816	
631350.63	4175700.50	1.03830	631350.63	4175800.50	1.09960	
631350.63	4175900.50	1.18895	631350.63	4176000.50	1.17272	
631350.63	4176100.50	1.10696	631450.63	4175100.50	0.34295	
631450.63	4175200.50	0.43527	631450.63	4175300.50	0.58488	

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631450.63
                4175400.50
                               0.65803
                                                  631450.63
                                                              4175500.50
                                                                             0.98327
    631450.63
                4175600.50
                               1.50591
                                                  631450.63
                                                              4175700.50
                                                                             1.83479
    631450.63
                4175800.50
                               2.01558
                                                  631450.63
                                                              4175900.50
                                                                             2.28175
    631450.63
                4176000.50
                               1.62878
                                                  631450.63
                                                              4176100.50
                                                                             1.36714
                               0.40354
                                                                             0.57503
    631550.63
                4175100.50
                                                  631550.63
                                                              4175200.50
    631550.63
                4175300.50
                               0.40435
                                                  631550.63
                                                              4175400.50
                                                                             0.79474
                                                                             2.79377
    631550.63
                4175500.50
                               1.40929
                                                  631550.63
                                                              4175600.50
    631550.63
                4175700.50
                               5.32598
                                                  631550.63
                                                              4175800.50
                                                                             3.17233
    631550.63
                4175900.50
                               1.52669
                                                  631550.63
                                                              4176000.50
                                                                             2.72192
    631550.63
                4176100.50
                               1.52926
                                                  631650.63
                                                              4175100.50
                                                                             0.44972
                4175200.50
                               0.74308
    631650.63
                                                  631650.63
                                                              4175300.50
                                                                             0.51855
    631650.63
                4175400.50
                               0.91639
                                                  631650.63
                                                              4175500.50
                                                                             1.80393
    631650.63
                4175600.50
                               4.29630
                                                  631650.63
                                                              4175700.50
                                                                            20.64246
    631650.63
                4175800.50
                               4.48991
                                                  631650.63
                                                              4175900.50
                                                                            1.69012
    631650.63
                4176000.50
                               1.87533
                                                  631650.63
                                                              4176100.50
                                                                             1.59047
    631750.63
                4175100.50
                               0.50159
                                                  631750.63
                                                              4175200.50
                                                                             0.82097
    631750.63
                4175300.50
                               0.48497
                                                  631750.63
                                                              4175400.50
                                                                             0.80238
    631750.63
                4175500.50
                               1.59768
                                                  631750.63
                                                              4175600.50
                                                                             4.91621
    631750.63
                4175700.50
                              50.80074
                                                   631750.63
                                                              4175800.50
                                                                             4.52860
                4175900.50
                                                  631750.63
                                                              4176000.50
    631750.63
                               1.25211
                                                                             2.20487
                4176100.50
                                                  631850.63
                                                                             0.62112
    631750.63
                               1.53518
                                                              4175100.50
                                                                             0.91642
    631850.63
                4175200.50
                               0.90673
                                                  631850.63
                                                              4175300.50
    631850.63
                4175400.50
                               1.28290
                                                  631850.63
                                                              4175500.50
                                                                            2.47421
               4175600.50
                               7.15933
                                                  631850.63
                                                             4175700.50
                                                                            68.51847
    631850.63
  *** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-
977GSBU)\Documents\HRA\Tracy C ***
                                         12/13/23
*** AERMET - VERSION 18081 *** ***
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                                                                                      15:02:10
                                                                 PAGE 108
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*** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:

*** STCK2

> STCK2 **INCLUDING SOURCE(S):**

> > *** DISCRETE CARTESIAN RECEPTOR POINTS ***

X-COORD (M) Y-COORD (	(M) CONC	X-CO	OORD (M) Y-0	COORD (M)	CONC
631850.63 4175800.50	6.57200	631850.63	4175900.50	2.88143	
631850.63 4176000.50	1.99354	631850.63	4176100.50	1.36246	
631950.63 4175100.50	0.79861	631950.63	4175200.50	1.19944	
631950.63 4175300.50	2.46240	631950.63	4175400.50	2.18211	
631950.63 4175500.50	3.43660	631950.63	4175600.50	9.01288	
631950.63 4175700.50	31.45281	631950.63	4175800.50	6.63946	
631950.63 4175900.50	2.96266	631950.63	4176000.50	1.75220	
631950.63 4176100.50	1.21733	632050.63	4175100.50	0.99345	
632050.63 4175200.50	1.49847	632050.63	4175300.50	2.33252	
632050.63 4175400.50	4.10881	632050.63	4175500.50	5.35353	
632050.63 4175600.50	9.70338	632050.63	4175700.50	19.36157	
632050.63 4175800.50	6.00525	632050.63	4175900.50	2.37750	
632050.63 4176000.50	1.58927	632050.63	4176100.50	1.15876	
*** AERMOD - VERSION 19	191 *** *** C:\User	s\Smith\Drop	box\My PC (D	ESKTOP-	
977GSBU)\Documents\HRA\Trac	y C *** 12/13/23	-	•		
*** AERMET - VERSION 1808	1 *** ***			***	15:02:10

*** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:

STCK3 ***

INCLUDING SOURCE(S): STCK3

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

X-COORD (M) Y-COORD (M) CON	NC X-COORD (M) Y-COORD (M)	CONC
632121.21 4174952.36 0.91396	632304.44 4174354.52 0.21131	
632192.15 4174956.32 0.99937	632420.62 4175510.15 4.78606	
632418.97 4175552.92 5.11015	631187.00 4175727.00 0.63440	
631166.00 4175729.00 0.59829	631121.00 4175719.00 0.52754	
631035.00 4174830.00 0.14329	631106.00 4174825.00 0.15250	
631937.00 4174528.00 0.21216	631322.00 4174522.00 0.11615	
629800.63 4173850.44 0.01829	630150.63 4173850.44 0.02093	
630500.63 4173850.44 0.02784	630850.63 4173850.44 0.04314	
631200.63 4173850.44 0.04611	631550.63 4173850.44 0.05121	
631900.63 4173850.44 0.05870	632250.63 4173850.44 0.08853	
632600.63 4173850.44 0.10590	632950.63 4173850.44 0.12892	
633300.63 4173850.44 0.13623	629800.63 4174200.44 0.02560	
630150.63 4174200.44 0.03352	630500.63 4174200.44 0.04536	
630850.63 4174200.44 0.05653	631200.63 4174200.44 0.07118	
631550.63 4174200.44 0.08369	631900.63 4174200.44 0.10965	
632250.63 4174200.44 0.15279	632600.63 4174200.44 0.18808	
632950.63 4174200.44 0.20672	633300.63 4174200.44 0.18794	
629800.63 4174550.44 0.04156	630150.63 4174550.44 0.05332	
630500.63 4174550.44 0.06877	630850.63 4174550.44 0.08506	
631200.63 4174550.44 0.11748	631550.63 4174550.44 0.14350	
631900.63 4174550.44 0.21010	632250.63 4174550.44 0.31670	
632600.63 4174550.44 0.37734	632950.63 4174550.44 0.32668	
633300.63 4174550.44 0.29221	629800.63 4174900.44 0.05083	
630150.63 4174900.44 0.06669	630500.63 4174900.44 0.09758	
630850.63 4174900.44 0.13479	631200.63 4174900.44 0.19025	
631550.63 4174900.44 0.30130	631900.63 4174900.44 0.50031	
632250.63 4174900.44 0.86255	632600.63 4174900.44 0.72616	
632950.63 4174900.44 0.59017	633300.63 4174900.44 0.48660	
629800.63 4175250.44 0.05651	630150.63 4175250.44 0.08188	
630500.63 4175250.44 0.12644	630850.63 4175250.44 0.20350	
631200.63 4175250.44 0.36140	631550.63 4175250.44 0.90408	
631900.63 4175250.44 2.66686	632250.63 4175250.44 2.33659	
632600.63 4175250.44 1.66971	632950.63 4175250.44 1.13924	
633300.63 4175250.44 0.77474	629800.63 4175600.44 0.06652	
630150.63 4175600.44 0.09386	630500.63 4175600.44 0.14706	
630850.63 4175600.44 0.26405	631200.63 4175600.44 0.61194	
631550.63 4175600.44 6.39131	631900.63 4175600.44 54.57697	
632250.63 4175600.44 8.84060	632600.63 4175600.44 3.04038	
632950.63 4175600.44 1.44861	633300.63 4175600.44 0.90095	
629800.63 4175950.44 0.07579	630150.63 4175950.44 0.10548	
	* C:\Users\Smith\Dropbox\My PC (DESKTOP-	
977GSBU)\Documents\HRA\Tracy C ***  *** AERMET - VERSION 18081 *** ***	12/13/23 ***	15:02:10

*** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:

STCK3 ***

INCLUDING SOURCE(S): STCK3

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

X-COORD (	M) Y-COORD	(M) CONC	X-CO	OORD (M)	Y-COORD (M	) CONC
630500.63	4175950.44	0.17382	630850.63	4175950.4	4 0.33337	
631200.63	4175950.44	0.79556	631550.63	4175950.4		
631900.63	4175950.44	1.60047	632250.63	4175950.4		
632600.63	4175950.44	1.20246	632950.63	4175950.4		
633300.63	4175950.44	0.70184	629800.63	4176300.4		
630150.63	4176300.44	0.13377	630500.63	4176300.4		
630850.63	4176300.44	0.40210	631200.63	4176300.4		
631550.63	4176300.44	0.74268	631900.63	4176300.4		
632250.63	4176300.44	0.60568	632600.63	4176300.4		
632950.63	4176300.44	0.49665	633300.63	4176300.4		
629800.63	4176650.44	0.10376	630150.63	4176650.4		
630500.63	4176650.44	0.24046	630850.63	4176650.4		
631200.63	4176650.44	0.43465	631550.63	4176650.4	4 0.47002	
631900.63	4176650.44	0.44426	632250.63	4176650.4	4 0.38734	
632600.63	4176650.44	0.37725	632950.63	4176650.4	4 0.33123	
633300.63	4176650.44	0.27991	629800.63	4177000.4	4 0.11380	
630150.63	4177000.44	0.15783	630500.63	4177000.4	4 0.21856	
630850.63	4177000.44	0.27760	631200.63	4177000.4	4 0.29837	
631550.63	4177000.44	0.33825	631900.63	4177000.4	4 0.31429	
632250.63	4177000.44	0.28325	632600.63	4177000.4		
632950.63	4177000.44	0.24442	633300.63	4177000.4		
629800.63	4177350.44	0.11055	630150.63	4177350.4		
630500.63	4177350.44	0.17714	630850.63	4177350.4		
631200.63	4177350.44	0.22489	631550.63	4177350.4		
631900.63	4177350.44	0.23154	632250.63	4177350.4		
632600.63	4177350.44	0.19271	632950.63	4177350.4		
633300.63	4177350.44	0.16753	631670.70	4175493.5		
631669.80	4175641.41	18.28407	631665.32	4175796.3		
631417.17	4175826.85	2.07695	631417.17	4175673.6		
631422.55	4175484.63	1.14542	631268.42	4175983.7		
631275.69	4175523.99	0.69929	631345.65	4175419.5		
631384.72	4175441.30	0.80169	631491.93	4175442.2		
631491.93	4175414.95	1.12022	631385.63	4175413.1		
631358.37	4175395.87	0.73028	631409.25	4175336.8		
631567.35	4175235.96	0.92123	631756.33	4175028.8		
631807.22	4175003.36	0.55086	631867.18	4174987.9		
631849.92	4175988.28	1.44787	631268.74	4175963.7		
631269.05	4175943.76	0.96362	631269.37	4175923.7		
631269.68	4175903.78	0.96547	631270.00	4175883.7		
631270.32	4175863.81	0.96136	631270.63	4175843.8		
			Users\Smith\Drop	box\My PC	(DESKTOP-	
977GSBU)\Docum			3/23		***	15 02 10
*** AERMET -	VERSION 1808	51 °°° °°°			<b>ক</b> ক ক	15:02:10

*** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:

STCK3 ***

INCLUDING SOURCE(S): STCK3

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

X-COORD (N	M) Y-COORD	(M) CONC	X-CO	OORD (M) Y-	COORD (M	) CONC
631270.95	4175823.83	0.95285	631271.26	4175803.84	0.94007	
631271.58	4175783.85	0.92305	631271.20	4175763.86	0.90696	
631272.21	4175743.87	0.88933	631272.53	4175723.88	0.83934	
631272.85	4175703.89	0.82474	631273.16	4175683.90	0.81242	
631273.48	4175663.91	0.80065	631273.79	4175643.92	0.79168	
631274.11	4175623.94	0.78564	631274.43	4175603.95	0.77477	
631274.74	4175583.96	0.75978	631275.06	4175563.97	0.73938	
631275.37	4175543.98	0.72004	631285.68	4175509.06	0.70460	
631295.68	4175494.14	0.70643	631305.67	4175479.21	0.71381	
631315.67	4175464.28	0.72200	631325.66	4175449.35	0.72631	
631335.66	4175434.43	0.73468	631358.67	4175426.77	0.70893	
631371.70	4175434.03	0.76512	631402.59	4175441.45	0.93060	
631420.46	4175441.60	1.05776	631438.33	4175441.76	1.09855	
631456.19	4175441.91	1.20477	631474.06	4175442.06	1.20020	
631491.93	4175428.58	1.25685	631474.21	4175414.65	1.10941	
631456.50	4175414.35	1.04637	631438.78	4175414.05	1.03576	
631421.06	4175413.74	0.96626	631403.35	4175413.44	0.82041	
631372.00	4175404.51	0.69782	631371.09	4175381.11	0.70804	
631383.81	4175366.34	0.71545	631396.53	4175351.58	0.70079	
631425.06	4175326.73	0.72150	631440.87	4175316.64	0.78669	
631456.68	4175306.56	0.85486	631472.49	4175296.47	0.90292	
631488.30	4175286.39	0.91279	631504.11	4175276.30	0.92209	
631519.92	4175266.22	0.91185	631535.73	4175256.13	0.91570	
631551.54	4175246.05	0.91477	631579.95	4175222.15	0.96709	
631592.55	4175208.34	0.97469	631605.15	4175194.53	0.94121	
631617.74	4175180.72	0.85297	631630.34	4175166.91	0.80554	
631642.94	4175153.10	0.75235	631655.54	4175139.29	0.71632	
631668.14	4175125.47	0.68105	631680.74	4175111.66	0.65234	
631693.34	4175097.85	0.62610	631705.94	4175084.04	0.60506	
631718.53	4175070.23	0.58723	631731.13	4175056.42	0.56976	
631743.73	4175042.61	0.55579	631773.29	4175020.32	0.54411	
631790.26	4175011.84	0.54757	631822.21	4174999.50	0.56295	
631837.20	4174995.64	0.57682	631852.19	4174991.77	0.59120	
631866.84	4175007.53	0.64737	631866.50	4175027.14	0.69409	
631866.16	4175046.76	0.75050	631865.83	4175066.37	0.81057	
631865.49	4175085.99	0.88533	631865.15	4175105.60	0.95744	
631864.81	4175125.22	1.03792	631864.47	4175144.83	1.13069	
631864.13	4175164.45	1.23594	631863.80	4175184.06	1.35749	
631863.46	4175203.68	1.50185	631863.12	4175223.29	1.81169	
631862.78	4175242.91	2.21054	631862.44	4175262.52	2.32698	
		9191 *** *** C:\Us	ers\Smith\Drop	box\My PC (D	ESKTOP-	
977GSBU)\Docur			23			
*** AERMET - V	VERSION 1808	81 *** ***			***	15:02:10

*** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:

STCK3 ***

INCLUDING SOURCE(S): STCK3

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

X-COORD (M)	Y-COORD (N	M) CONC	X-CC	OORD (M) Y	-COORD (M)	CONC
631862.10 43	175282.14	2.45736	631861.77	4175301.75	1.97723	
			631861.09	4175340.98	2.55800	
			631860.41	4175380.21	3.38391	
			631859.73	4175419.44	4.70895	
			631859.06	4175458.67	6.71423	
			631858.38	4175497.90	10.24034	
		3.16890	631857.70	4175537.13	18.53748	
		28.09862	631857.03	4175576.36		
		52.20710	631856.35	4175615.59		
		29.36153	631855.67	4175654.82		
			631855.00	4175694.05	6.65445	
			631854.32	4175733.28	4.07052	
			631853.64	4175772.51	2.77495	
			631852.97	4175811.74	2.04684	
			631852.29	4175850.97	1.61244	
			631851.61	4175890.20	1.37860	
			631850.94	4175929.43	1.76922	
			631850.26	4175968.66	1.64705	
631830.54 41	175988.13	1.50338	631811.15	4175987.98	1.60225	
631791.77 42	175987.83	1.72619	631772.39	4175987.67	1.76234	
631753.00 41	175987.52	1.73380	631733.62	4175987.37	1.67921	
631714.24 41	175987.22	1.61844	631694.85	4175987.07	1.57807	
631675.47 43	175986.92	1.85738	631656.09	4175986.77	1.79960	
631636.70 43	175986.62	1.69739	631617.32	4175986.46	1.93988	
631597.94 41	175986.31	2.07385	631578.55	4175986.16	2.26370	
631559.17 41	175986.01	2.38682	631539.79	4175985.86	2.50261	
631520.40 41	175985.71	2.57265	631501.02	4175985.56	2.53721	
631481.64 41	175985.40	1.98484	631462.25	4175985.25	1.62389	
631442.87 43	175985.10	1.54473	631423.49	4175984.95	1.47402	
631404.10 43	175984.80	1.39926	631384.72	4175984.65	1.32596	
		1.25538	631345.95	4175984.35	1.18773	
631326.57 41	175984.19	1.12323	631307.19	4175984.04	1.06268	
631287.80 4	175983.89	1.00550	631050.63	4175100.50	0.22367	
	175200.50	0.25834	631050.63	4175300.50	0.29487	
			631050.63	4175500.50	0.37397	
			631050.63	4175700.50	0.42149	
			631050.63	4175900.50	0.52270	
			631050.63	4176100.50	0.56552	
			631150.63	4175200.50	0.30328	
			631150.63	4175400.50	0.41071	
		91 *** *** C:\Users	s\Smith\Drop	box\My PC (	DESKTOP-	
977GSBU)\Docume						1.500.10
*** AERMET - VE	ERSION 18081	*** ***			***	15:02:10

*** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:

STCK3 ***

INCLUDING SOURCE(S): STCK3

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

X-COORD (	M) Y-COOR	D (M) CON	C X-CC	OORD (M)	Y-COORD (M	) CONC
631150.63	4175500.50	0.47300	631150.63	4175600.5	0 0.52938	
631150.63	4175700.50	0.56203	631150.63	4175800.5		
631150.63	4175900.50	0.68288	631150.63	4176000.5		
631150.63	4176100.50	0.70645	631250.63	4175100.5		
631250.63	4175200.50	0.76643	631250.63	4175300.5		
631250.63	4175400.50	0.53071	631250.63	4175500.5		
631250.63	4175600.50	0.71051	631250.63	4175700.5		
631250.63	4175800.50	0.87738	631250.63	4175900.5		
631250.63	4176000.50	0.90275	631250.63	4176100.5		
631350.63	4175100.50	0.34438	631350.63	4175200.5		
631350.63	4175300.50	0.56865	631350.63	4175400.5		
631350.63	4175500.50	0.87315	631350.63	4175600.5		
631350.63	4175700.50	1.15731	631350.63	4175800.5		
631350.63	4175900.50	1.27551	631350.63	4176000.5		
631350.63	4176100.50	1.05047	631450.63	4175100.5		
631450.63	4175200.50	0.54587	631450.63	4175300.5		
631450.63	4175400.50	0.99957	631450.63	4175500.5		
631450.63	4175600.50	2.03226	631450.63	4175700.5		
631450.63	4175800.50	2.29559	631450.63	4175900.5		
631450.63	4176000.50	1.51333	631450.63	4176100.5		
631550.63	4175100.50	0.51012	631550.63	4175200.5		
631550.63	4175300.50	0.55300	631550.63	4175400.5		
631550.63	4175500.50	2.46507	631550.63	4175600.5		
631550.63	4175700.50	5.19848	631550.63	4175800.5		
631550.63	4175900.50	1.93708	631550.63	4176000.5		
631550.63	4176100.50	1.21533	631650.63	4175100.5		
631650.63	4175200.50	1.01284	631650.63	4175300.5		
631650.63	4175400.50	1.43091	631650.63	4175500.5		
631650.63	4175600.50	24.46552	631650.63	4175700.5	7.68233	
631650.63	4175800.50	3.51340	631650.63	4175900.5		
631650.63	4176000.50	1.90916	631650.63	4176100.5	0 1.22744	
631750.63	4175100.50	0.69028	631750.63	4175200.5	0 1.25273	
631750.63	4175300.50	0.77057	631750.63	4175400.5	0 1.62189	
631750.63	4175500.50	5.50656	631750.63	4175600.5	0 54.45909	
631750.63	4175700.50	7.36892	631750.63	4175800.5	0 2.24746	
631750.63	4175900.50	0.89601	631750.63	4176000.5	0 1.62094	
631750.63	4176100.50	1.16923	631850.63	4175100.5	0.89786	
631850.63	4175200.50	1.41519	631850.63	4175300.5	0 1.88271	
631850.63	4175400.50	3.78451	631850.63	4175500.5	0 10.01128	
631850.63	4175600.50	66.01396	631850.63	4175700.5	6.22032	
*** AERMOD	- VERSION	19191 *** ***	C:\Users\Smith\Drop	box\My PC	(DESKTOP-	
977GSBU)\Docum			2/13/23			
*** AERMET -	VERSION 18	081 *** ***			***	15:02:10

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:

STCK3

INCLUDING SOURCE(S): STCK3

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3

X-COORD (M) Y-COO	RD (M) CONC	X-COORD (M) Y	-COORD (M)	CONC
631850.63 4175800.50	2.25534	631850.63 4175900.50	1.37666	
631850.63 4176000.50		631850.63 4176100.50	1.03018	
631950.63 4175100.50	1.19494	631950.63 4175200.50	1.95052	
631950.63 4175300.50	4.63630	631950.63 4175400.50	6.45951	
631950.63 4175500.50	13.68205	631950.63 4175600.50	34.16625	
631950.63 4175700.50	6.41204	631950.63 4175800.50	2.75473	
631950.63 4175900.50	1.88356	631950.63 4176000.50	1.21230	
631950.63 4176100.50	0.92013	632050.63 4175100.50	1.48950	
632050.63 4175200.50	2.32006	632050.63 4175300.50	3.60411	
632050.63 4175400.50	6.14680	632050.63 4175500.50	10.46919	
632050.63 4175600.50	19.72902	632050.63 4175700.50	5.89222	
632050.63 4175800.50	2.48693	632050.63 4175900.50	1.58204	
632050.63 4176000.50		632050.63 4176100.50	0.86918	
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977GSBU)\Documents\HRA\		.3/23		
*** AERMET - VERSION	18081 *** ***		***	15:02:10
		PAGE 1	15	

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:

STCK4 ***

INCLUDING SOURCE(S): STCK4

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

M) Y-COORD	(M) CONC	X-C0	OORD (M) Y-C	COORD (M)	CONC
4174952.36	1.30527	632304.44	4174354.52	0.25502	
4174956.32	1.38112	632420.62	4175510.15	4.99495	
4175552.92	4.55408	631187.00	4175727.00	0.73233	
4175729.00	0.68791	631121.00	4175719.00	0.59855	
4174830.00	0.15909	631106.00	4174825.00	0.17005	
4174528.00	0.25783	631322.00	4174522.00	0.12794	
4173850.44	0.01892	630150.63	4173850.44	0.02170	
4173850.44	0.02904	630850.63	4173850.44	0.04470	
4173850.44	0.04908	631550.63	4173850.44	0.05608	
4173850.44	0.06478	632250.63	4173850.44	0.09904	
4173850.44	0.12063	632950.63	4173850.44	0.14710	
4173850.44	0.14898	629800.63	4174200.44	0.02738	
4174200.44	0.03494	630500.63	4174200.44	0.04816	
4174200.44	0.05953	631200.63	4174200.44	0.07647	
•	4174952.36 4174956.32 4175552.92 4175729.00 4174830.00 4174528.00 4173850.44 4173850.44 4173850.44 4173850.44 4173850.44 4173850.44 4173850.44 4173850.44	4174952.36 1.30527 4174956.32 1.38112 4175552.92 4.55408 4175729.00 0.68791 4174830.00 0.15909 4174528.00 0.25783 4173850.44 0.01892 4173850.44 0.02904 4173850.44 0.04908 4173850.44 0.06478 4173850.44 0.12063 4173850.44 0.12063 4173850.44 0.14898 4174200.44 0.03494	4174952.36       1.30527       632304.44         4174956.32       1.38112       632420.62         4175552.92       4.55408       631187.00         4175729.00       0.68791       631121.00         4174830.00       0.15909       631106.00         4174528.00       0.25783       631322.00         4173850.44       0.01892       630150.63         4173850.44       0.02904       630850.63         4173850.44       0.04908       631550.63         4173850.44       0.06478       632250.63         4173850.44       0.12063       632950.63         4173850.44       0.14898       629800.63         4174200.44       0.03494       630500.63	4174952.36       1.30527       632304.44       4174354.52         4174956.32       1.38112       632420.62       4175510.15         4175552.92       4.55408       631187.00       4175727.00         4175729.00       0.68791       631121.00       4175719.00         4174830.00       0.15909       631106.00       4174825.00         4174528.00       0.25783       631322.00       4174522.00         4173850.44       0.01892       630150.63       4173850.44         4173850.44       0.02904       630850.63       4173850.44         4173850.44       0.04908       631550.63       4173850.44         4173850.44       0.12063       632950.63       4173850.44         4173850.44       0.14898       629800.63       4174200.44         4174200.44       0.03494       630500.63       4174200.44	4174952.36       1.30527       632304.44       4174354.52       0.25502         4174956.32       1.38112       632420.62       4175510.15       4.99495         4175552.92       4.55408       631187.00       4175727.00       0.73233         4175729.00       0.68791       631121.00       4175719.00       0.59855         4174830.00       0.15909       631106.00       4174825.00       0.17005         4174528.00       0.25783       631322.00       4174522.00       0.12794         4173850.44       0.01892       630150.63       4173850.44       0.02170         4173850.44       0.04908       631550.63       4173850.44       0.05608         4173850.44       0.06478       632250.63       4173850.44       0.09904         4173850.44       0.12063       632950.63       4173850.44       0.14710         4173850.44       0.14898       629800.63       4174200.44       0.02738         4174200.44       0.03494       630500.63       4174200.44       0.04816

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631550.63
                4174200.44
                               0.09382
                                                  631900.63
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                4174200.44
                               0.17840
                                                  632600.63
                                                              4174200.44
                                                                             0.22447
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                4174200.44
                               0.23331
                                                  633300.63
                                                              4174200.44
                                                                             0.20724
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                                                  630150.63
                                                              4174550.44
                                                                             0.05588
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                               0.07363
                                                              4174550.44
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                4174550.44
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                               0.25551
                                                                             0.39869
    631900.63
                4174550.44
                                                  632250.63
                                                              4174550.44
                               0.45049
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                4174550.44
                                                  632950.63
                                                              4174550.44
                                                                             0.37258
    633300.63
                4174550.44
                               0.33350
                                                  629800.63
                                                              4174900.44
                                                                             0.05124
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                4174900.44
                               0.06999
                                                  630500.63
                                                              4174900.44
                                                                             0.10350
     630850.63
                4174900.44
                               0.14774
                                                  631200.63
                                                              4174900.44
                                                                             0.21602
                4174900.44
    631550.63
                               0.37194
                                                  631900.63
                                                              4174900.44
                                                                             0.68341
    632250.63
                4174900.44
                               1.15455
                                                  632600.63
                                                              4174900.44
                                                                             0.86833
    632950.63
                4174900.44
                               0.71175
                                                  633300.63
                                                              4174900.44
                                                                             0.56411
    629800.63
                4175250.44
                               0.05971
                                                  630150.63
                                                              4175250.44
                                                                             0.08744
                                                                             0.21354
                4175250.44
                               0.13333
                                                  630850.63
                                                              4175250.44
    630500.63
                                                                             1.28577
     631200.63
                4175250.44
                               0.41510
                                                  631550.63
                                                              4175250.44
     631900.63
                4175250.44
                               5.20410
                                                  632250.63
                                                              4175250.44
                                                                             3.24178
     632600.63
                4175250.44
                               2.23865
                                                  632950.63
                                                              4175250.44
                                                                             1.33335
    633300.63
                4175250.44
                               0.85026
                                                  629800.63
                                                              4175600.44
                                                                             0.06681
     630150.63
                4175600.44
                               0.09494
                                                  630500.63
                                                              4175600.44
                                                                             0.15029
                                                                             0.64972
    630850.63
                4175600.44
                               0.27224
                                                  631200.63
                                                              4175600.44
     631550.63
                4175600.44
                               6.26906
                                                  631900.63
                                                              4175600.44
                                                                             4.10839
    632250.63
                4175600.44
                               4.99458
                                                  632600.63
                                                              4175600.44
                                                                             2.62447
    632950.63
                4175600.44
                               1.37793
                                                  633300.63
                                                              4175600.44
                                                                             0.87632
     629800.63
                4175950.44
                               0.07753
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                                                              4175950.44
                                                                             0.11090
  *** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-
977GSBU)\Documents\HRA\Tracy C ***
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*** AERMET - VERSION 18081 *** ***
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                                                                 PAGE 116
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*** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:

*** STCK4

> **INCLUDING SOURCE(S):** STCK4

> > *** DISCRETE CARTESIAN RECEPTOR POINTS ***

X-COORD (	M) Y-COORD	(M) CONC	X-C0	OORD (M) Y-	COORD (M)	CONC
630500.63	4175950.44	0.19056	630850.63	4175950.44	0.36575	
631200.63	4175950.44	0.82336	631550.63	4175950.44	1.63863	
631900.63	4175950.44	1.16868	632250.63	4175950.44	0.86761	
632600.63	4175950.44	0.86698	632950.63	4175950.44	0.79292	
633300.63	4175950.44	0.61062	629800.63	4176300.44	0.09297	
630150.63	4176300.44	0.14255	630500.63	4176300.44	0.24328	
630850.63	4176300.44	0.41041	631200.63	4176300.44	0.63323	
631550.63	4176300.44	0.65529	631900.63	4176300.44	0.57861	
632250.63	4176300.44	0.50614	632600.63	4176300.44	0.47172	
632950.63	4176300.44	0.41684	633300.63	4176300.44	0.37685	
629800.63	4176650.44	0.10841	630150.63	4176650.44	0.16341	
630500.63	4176650.44	0.24335	630850.63	4176650.44	0.35302	
631200.63	4176650.44	0.39909	631550.63	4176650.44	0.43388	
631900.63	4176650.44	0.39971	632250.63	4176650.44	0.34459	

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632600.63
                4176650.44
                               0.33675
                                                   632950.63
                                                              4176650.44
                                                                             0.29619
    633300.63
                4176650.44
                               0.25470
                                                   629800.63
                                                              4177000.44
                                                                             0.11432
    630150.63
                4177000.44
                               0.15800
                                                   630500.63
                                                              4177000.44
                                                                             0.21437
    630850.63
                4177000.44
                               0.26390
                                                   631200.63
                                                              4177000.44
                                                                             0.27948
                               0.31454
                                                                             0.28902
    631550.63
                4177000.44
                                                   631900.63
                                                              4177000.44
     632250.63
                4177000.44
                               0.26367
                                                   632600.63
                                                              4177000.44
                                                                             0.24233
     632950.63
                4177000.44
                               0.22621
                                                   633300.63
                                                              4177000.44
                                                                             0.19862
     629800.63
                4177350.44
                               0.11052
                                                   630150.63
                                                              4177350.44
                                                                             0.14121
    630500.63
                4177350.44
                               0.17092
                                                   630850.63
                                                              4177350.44
                                                                             0.19635
     631200.63
                4177350.44
                               0.21441
                                                   631550.63
                                                              4177350.44
                                                                             0.22973
                4177350.44
                                                              4177350.44
    631900.63
                               0.21567
                                                   632250.63
                                                                             0.20536
     632600.63
                4177350.44
                               0.17773
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                                                              4177350.44
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    633300.63
                4177350.44
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                                                                             26.56706
     631669.80
                4175641.41
                               8.00797
                                                   631665.32
                                                              4175796.39
                                                                             2.61827
                                                                             2.17833
    631417.17
                4175826.85
                               2.14326
                                                   631417.17
                                                              4175673.66
    631422.55
                4175484.63
                               1.48419
                                                   631268.42
                                                              4175983.74
                                                                             0.96085
    631275.69
                4175523.99
                               0.78819
                                                   631345.65
                                                              4175419.50
                                                                             0.86446
    631384.72
                4175441.30
                               1.05170
                                                   631491.93
                                                              4175442.21
                                                                             1.82981
    631491.93
                4175414.95
                               1.66908
                                                   631385.63
                                                              4175413.14
                                                                             0.94507
     631358.37
                4175395.87
                                                   631409.25
                                                              4175336.81
                                                                             0.85938
                               0.86756
                4175235.96
                                                   631756.33
                                                                             0.75795
    631567.35
                               1.25263
                                                              4175028.80
     631807.22
                4175003.36
                                                                             0.86435
                               0.77387
                                                   631867.18
                                                              4174987.91
     631849.92
                4175988.28
                               1.09753
                                                   631268.74
                                                              4175963.75
                                                                             0.97403
    631269.05
                4175943.76
                               0.98376
                                                   631269.37
                                                              4175923.77
                                                                             0.99287
    631269.68
                4175903.78
                               1.00012
                                                   631270.00
                                                              4175883.79
                                                                             1.00680
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                4175863.81
                               1.01353
                                                   631270.63
                                                              4175843.82
                                                                             1.02110
  *** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-
977GSBU)\Documents\HRA\Tracy C ***
                                          12/13/23
*** AERMET - VERSION 18081 *** ***
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                                                                                       15:02:10
                                                                  PAGE 117
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*** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:

*** STCK4

> INCLUDING SOURCE(S): STCK4

> > *** DISCRETE CARTESIAN RECEPTOR POINTS ***

X-COORD (	M) Y-COORD	(M) CONC	X-Co	OORD (M) Y-	COORD (M)	CONC
 631270.95	4175823.83	1.02588	631271.26	4175803.84	1.02801	
631271.58	4175783.85	1.02323	631271.90	4175763.86	1.01068	
631272.21	4175743.87	1.00416	631272.53	4175723.88	1.00563	
631272.85	4175703.89	0.98866	631273.16	4175683.90	0.92335	
631273.48	4175663.91	0.89858	631273.79	4175643.92	0.88422	
631274.11	4175623.94	0.88076	631274.43	4175603.95	0.85905	
631274.74	4175583.96	0.83526	631275.06	4175563.97	0.81359	
631275.37	4175543.98	0.79987	631285.68	4175509.06	0.80610	
631295.68	4175494.14	0.82497	631305.67	4175479.21	0.84923	
631315.67	4175464.28	0.86367	631325.66	4175449.35	0.87029	
631335.66	4175434.43	0.87093	631358.67	4175426.77	0.88432	
631371.70	4175434.03	0.95304	631402.59	4175441.45	1.16269	
631420.46	4175441.60	1.30265	631438.33	4175441.76	1.46163	
631456.19	4175441.91	1.82572	631474.06	4175442.06	1.85849	

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631491.93
               4175428.58
                              1.77654
                                                 631474.21
                                                             4175414.65
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               4175414.35
                              1.64659
                                                             4175414.05
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                              1.18234
                                                 631403.35
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                                                                           1.03295
    631372.00
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                              0.89396
                                                 631371.09
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                                                                           0.87243
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                                                 631396.53
                                                                           0.89087
                              0.87554
                                                             4175351.58
    631425.06
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                                                 631472.49
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                                                             4175296.47
                                                                           1.25359
    631488.30
                              1.30986
                                                             4175276.30
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               4175266.22
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                              1.28775
                                                 631579.95
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                              1.30635
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                              1.20573
                                                 631630.34
                                                             4175166.91
                                                                           1.15030
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                              1.08752
                                                 631655.54
                                                             4175139.29
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    631668.14
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                                                 631680.74
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                                                                           0.93220
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    631718.53
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    631743.73
                                                 631773.29
                                                                           0.76215
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                              0.78161
                                                             4175020.32
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                              0.93123
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                                                             4175027.14
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                              1.11146
                                                 631865.83
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                                                                           1.23011
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                                                 631865.15
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                              1.35272
                                                             4175105.60
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    631864.81
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                              1.64929
                                                 631864.47
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    631864.13
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                                                 631863.80
                                                             4175184.06
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                              2.65600
                                                 631863.12
                                                             4175223.29
                                                                           3.34297
    631862.78
               4175242.91
                              4.65868
                                                 631862.44
                                                            4175262.52
                                                                           5.38642
  *** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-
977GSBU)\Documents\HRA\Tracy C ***
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*** AERMET - VERSION 18081 *** ***
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                                                                                     15:02:10
                                                                PAGE 118
*** MODELOPTs: CONC ELEV RURAL ADJ U*
                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:
STCK4
        ***
                  INCLUDING SOURCE(S):
                                             STCK4
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*** DISCRETE CARTESIAN RECEPTOR POINTS ***

X-COORD (	M) Y-COORI	O(M) CONC	X-CO	ORD (M) Y	Y-COORD (M)	CONC
 631862.10	4175282.14	6.12503	631861.77	4175301.75	6.03454	
631861.43	4175321.37	7.17960	631861.09	4175340.98	8.31526	
631860.75	4175360.60	9.87402	631860.41	4175380.21	11.83606	
631860.07	4175399.83	13.95166	631859.73	4175419.44	17.49659	
631859.40	4175439.06	22.35570	631859.06	4175458.67	35.19956	
631858.72	4175478.29	60.40465	631858.38	4175497.90	76.99016	
631858.04	4175517.52	52.56565	631857.70	4175537.13	24.80657	
631857.37	4175556.75	13.47776	631857.03	4175576.36	8.33335	
631856.69	4175595.98	5.62613	631856.35	4175615.59	4.16392	
631856.01	4175635.21	3.26695	631855.67	4175654.82	2.63660	
631855.33	4175674.44	2.16374	631855.00	4175694.05	1.81187	
631854.66	4175713.67	1.59577	631854.32	4175733.28	1.42997	
631853.98	4175752.90	1.28990	631853.64	4175772.51	1.18379	
631853.30	4175792.13	1.09202	631852.97	4175811.74	1.01453	

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631852.63
                4175831.36
                               0.95834
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                4175870.59
                               0.87753
                                                   631851.61
                                                              4175890.20
                                                                             0.90919
     631851.27
                4175909.82
                               0.90167
                                                   631850.94
                                                              4175929.43
                                                                             1.27016
    631850.60
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                               1.28961
                                                   631850.26
                                                              4175968.66
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                                                   631811.15
                4175988.13
                               1.15500
                                                                             1.23543
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                                                              4175987.98
     631791.77
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                               1.31913
                                                   631772.39
                                                              4175987.67
                                                                             1.36096
                                                   631733.62
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                4175987.52
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                               1.37689
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                               1.54395
                                                   631617.32
                                                              4175986.46
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                                                   631578.55
                                                                             1.73605
                               1.72093
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                               2.10892
                                                   631501.02
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                                                   631462.25
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     631442.87
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                                                                             1.32890
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                               1.28815
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                                                   631307.19
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                                                              4175300.50
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                4175400.50
                               0.37013
                                                   631050.63
                                                              4175500.50
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     631050.63
                4175600.50
                               0.42824
                                                   631050.63
                                                              4175700.50
                                                                             0.45334
     631050.63
                4175800.50
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                                                   631050.63
                                                              4175900.50
                                                                             0.56577
    631050.63
                4176000.50
                               0.58042
                                                   631050.63
                                                              4176100.50
                                                                             0.57966
    631150.63
                4175100.50
                               0.29098
                                                   631150.63
                                                              4175200.50
                                                                             0.34501
     631150.63
                4175300.50
                               0.40118
                                                   631150.63
                                                              4175400.50
                                                                             0.46780
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977GSBU)\Documents\HRA\Tracy C ***
                                          12/13/23
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*** AERMET - VERSION 18081 *** ***
                                                                                       15:02:10
                                                                  PAGE 119
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*** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:

*** STCK4

> **INCLUDING SOURCE(S):** STCK4

> > *** DISCRETE CARTESIAN RECEPTOR POINTS ***

X-COORD (	M) Y-COORD	O(M) CONC	X-COORD (M) Y-COORD (M)	CONC
 631150.63	4175500.50	0.52696	631150.63 4175600.50 0.55747	
631150.63	4175700.50	0.63909	631150.63 4175800.50 0.69964	
631150.63	4175900.50	0.72647	631150.63 4176000.50 0.72164	
631150.63	4176100.50	0.71262	631250.63 4175100.50 0.34435	
631250.63	4175200.50	0.42288	631250.63 4175300.50 0.51250	
631250.63	4175400.50	0.61473	631250.63 4175500.50 0.71471	
631250.63	4175600.50	0.76340	631250.63 4175700.50 0.85847	
631250.63	4175800.50	0.95921	631250.63 4175900.50 0.94722	
631250.63	4176000.50	0.91139	631250.63 4176100.50 0.84260	
631350.63	4175100.50	0.41750	631350.63 4175200.50 0.53651	
631350.63	4175300.50	0.68991	631350.63 4175400.50 0.84541	
631350.63	4175500.50	1.03941	631350.63 4175600.50 1.41750	
631350.63	4175700.50	1.46236	631350.63 4175800.50 1.55675	
631350.63	4175900.50	1.30435	631350.63 4176000.50 1.13741	

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631350.63
                4176100.50
                              0.94693
                                                 631450.63
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                4175200.50
                              0.70282
                                                 631450.63
                                                            4175300.50
                                                                           1.00289
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    631450.63
                4175400.50
                              1.44770
                                                            4175500.50
                                                                           1.83956
    631450.63
                4175600.50
                              2.64207
                                                 631450.63
                                                            4175700.50
                                                                           2.78609
    631450.63
                4175800.50
                              2.49761
                                                 631450.63
                                                            4175900.50
                                                                           2.16704
    631450.63
                4176000.50
                              1.31429
                                                 631450.63
                                                            4176100.50
                                                                           0.99078
                4175100.50
                                                            4175200.50
    631550.63
                              0.66955
                                                 631550.63
                                                                           1.11944
                4175300.50
                              0.69336
                                                            4175400.50
    631550.63
                                                 631550.63
                                                                           1.80337
    631550.63
                4175500.50
                              5.70221
                                                 631550.63
                                                            4175600.50
                                                                           6.26714
    631550.63
                4175700.50
                              4.59691
                                                 631550.63
                                                            4175800.50
                                                                           3.15594
                                                 631550.63
    631550.63
                4175900.50
                              1.82650
                                                            4176000.50
                                                                           1.97631
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                4176100.50
                              0.99637
                                                 631650.63
                                                            4175100.50
                                                                           0.82853
    631650.63
                4175200.50
                              1.41123
                                                 631650.63
                                                            4175300.50
                                                                           0.99473
    631650.63
                4175400.50
                              2.73778
                                                 631650.63
                                                            4175500.50
                                                                          23.81505
    631650.63
                4175600.50
                              10.28973
                                                 631650.63
                                                             4175700.50
                                                                           5.48806
    631650.63
                4175800.50
                              2.72052
                                                 631650.63
                                                            4175900.50
                                                                           1.34596
                4176000.50
                              1.66711
                                                 631650.63
                                                            4176100.50
                                                                           1.00630
    631650.63
    631750.63
                4175100.50
                              1.01125
                                                 631750.63
                                                            4175200.50
                                                                           2.00023
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               4175300.50
                              1.50473
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                                                            4175600.50
                                                                           9.69329
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                4175700.50
                              3.22521
                                                 631750.63
                                                            4175800.50
                                                                           1.28593
    631750.63
               4175900.50
                              0.64485
                                                 631750.63
                                                            4176000.50
                                                                           1.31443
    631750.63
               4176100.50
                              0.95513
                                                 631850.63
                                                            4175100.50
                                                                           1.38299
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                4175200.50
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                                                            4175300.50
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                4175400.50
                              13.52690
                                                 631850.63
                                                            4175500.50
                                                                           79.75872
               4175600.50
    631850.63
                              5.38263
                                                 631850.63
                                                            4175700.50
                                                                           1.86207
  *** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-
977GSBU)\Documents\HRA\Tracy C ***
                                        12/13/23
                                                                             ***
*** AERMET - VERSION 18081 *** ***
                                                                                    15:02:10
                                                               PAGE 120
*** MODELOPTs: CONC ELEV RURAL ADJ U*
                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:
STCK4
                  INCLUDING SOURCE(S):
                                            STCK4
                        *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                     ** CONC OF OTHER IN MICROGRAMS/M**3
```

X-COORD (M) Y-COORD (M) **CONC** X-COORD (M) Y-COORD (M) **CONC** 631850.63 4175800.50 1.09425 631850.63 4175900.50 0.89490 631850.63 4176000.50 1.05769 631850.63 4176100.50 0.83514 631950.63 4175100.50 1.90867 631950.63 4175200.50 3.42027 631950.63 4175300.50 8.23642 631950.63 4175400.50 15.55185 631950.63 4175500.50 33.60699 631950.63 4175600.50 5.59850 4175700.50 631950.63 631950.63 1.52838 4175800.50 1.09088 4175900.50 1.28929 631950.63 4176000.50 0.92451 631950.63 2.29698 631950.63 4176100.50 0.75025 632050.63 4175100.50 632050.63 4175200.50 3.59739 632050.63 4175300.50 5.44640 4175400.50 10.44793 632050.63 4175500.50 632050.63 19.45913 632050.63 4175600.50 5.62283 632050.63 4175700.50 2.45992 632050.63 4175800.50 1.61229 632050.63 4175900.50 1.11631 4176000.50 632050.63 0.85625 632050.63 4176100.50 0.69269 *** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-

*** PAGE 121 15:02:10

*** MODELOPTs: CONC ELEV RURAL ADJ U*

*** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:

STCK5 ***

INCLUDING SOURCE(S): STCK5

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

X-COORD (M) Y-COOF	RD (M) CONC	X-COORD (M) Y-COORD (M)	CONC
632121.21 4174952.36	1.99614	632304.44 4174354.52 0.32115	
632192.15 4174956.32	1.99192	632420.62 4175510.15 3.41841	
632418.97 4175552.92	2.76662	631187.00 4175727.00 0.78980	
631166.00 4175729.00	0.74372	631121.00 4175719.00 0.65184	
631035.00 4174830.00	0.17868	631106.00 4174825.00 0.19260	
631937.00 4174528.00	0.32029	631322.00 4174522.00 0.14270	
629800.63 4173850.44	0.01968	630150.63 4173850.44 0.02277	
630500.63 4173850.44	0.03032	630850.63 4173850.44 0.04659	
631200.63 4173850.44	0.05278	631550.63 4173850.44 0.06209	
631900.63 4173850.44	0.07209	632250.63 4173850.44 0.11379	
632600.63 4173850.44	0.14097	632950.63 4173850.44 0.16972	
633300.63 4173850.44	0.16393	629800.63 4174200.44 0.02869	
630150.63 4174200.44	0.03718	630500.63 4174200.44 0.05174	
630850.63 4174200.44	0.06361	631200.63 4174200.44 0.08283	
631550.63 4174200.44	0.10684	631900.63 4174200.44 0.14517	
632250.63 4174200.44	0.21704	632600.63 4174200.44 0.27555	
632950.63 4174200.44	0.26635	633300.63 4174200.44 0.23263	
629800.63 4174550.44	0.04603	630150.63 4174550.44 0.05811	
630500.63 4174550.44	0.07963	630850.63 4174550.44 0.10026	
631200.63 4174550.44	0.14033	631550.63 4174550.44 0.19666	
631900.63 4174550.44	0.31627	632250.63 4174550.44 0.52867	
632600.63 4174550.44	0.54391	632950.63 4174550.44 0.43810	
633300.63 4174550.44	0.38952	629800.63 4174900.44 0.05167	
630150.63 4174900.44	0.07043	630500.63 4174900.44 0.10932	
630850.63 4174900.44	0.15960	631200.63 4174900.44 0.24977	
631550.63 4174900.44	0.47111	631900.63 4174900.44 0.99067	
632250.63 4174900.44	1.58311	632600.63 4174900.44 1.13454	
632950.63 4174900.44	0.87735	633300.63 4174900.44 0.65139	
629800.63 4175250.44	0.06129	630150.63 4175250.44 0.09112	
630500.63 4175250.44	0.14230	630850.63 4175250.44 0.23005	
631200.63 4175250.44	0.46553	631550.63 4175250.44 1.48777	
631900.63 4175250.44	11.72670	632250.63 4175250.44 5.47825	
632600.63 4175250.44	2.79418	632950.63 4175250.44 1.44724	
633300.63 4175250.44	0.89556	629800.63 4175600.44 0.07019	
630150.63 4175600.44	0.10175	630500.63 4175600.44 0.16059	
630850.63 4175600.44	0.28470	631200.63 4175600.44 0.71233	
631550.63 4175600.44	5.55368	631900.63 4175600.44 0.94578	
632250.63 4175600.44	2.18357	632600.63 4175600.44 1.86723	
632950.63 4175600.44	1.20310	633300.63 4175600.44 0.81509	
629800.63 4175950.44	0.08093	630150.63 4175950.44 0.11940	
*** AERMOD - VERSION	19191 *** *** C:\\	Users\Smith\Dropbox\My PC (DESKTOP-	

15:02:10

*** MODELOPTs: CONC ELEV RURAL ADJ U*

*** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:

STCK5 ***

INCLUDING SOURCE(S): STCK5

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

X-COORD (M) Y-COO	RD (M) CONC	X-COORD (M) Y-COORD (M) CONC
630500.63 4175950.44	0.20407	630850.63 4175950.44 0.39831
631200.63 4175950.44	0.82595	631550.63 4175950.44 1.25343
631900.63 4175950.44	0.94736	632250.63 4175950.44 0.70514
632600.63 4175950.44	0.64844	632950.63 4175950.44 0.63695
633300.63 4175950.44	0.52565	629800.63 4176300.44 0.09779
630150.63 4176300.44	0.15152	630500.63 4176300.44 0.24694
630850.63 4176300.44	0.41141	631200.63 4176300.44 0.57532
631550.63 4176300.44	0.59371	631900.63 4176300.44 0.51842
632250.63 4176300.44	0.44171	632600.63 4176300.44 0.41359
632950.63 4176300.44	0.36561	633300.63 4176300.44 0.32519
629800.63 4176650.44	0.11112	630150.63 4176650.44 0.16389
630500.63 4176650.44	0.24352	630850.63 4176650.44 0.33811
631200.63 4176650.44	0.36859	631550.63 4176650.44 0.40699
631900.63 4176650.44	0.36757	632250.63 4176650.44 0.31874
632600.63 4176650.44	0.30733	632950.63 4176650.44 0.26955
633300.63 4176650.44	0.23648	629800.63 4177000.44 0.11456
630150.63 4177000.44	0.15700	630500.63 4177000.44 0.20816
630850.63 4177000.44	0.25026	631200.63 4177000.44 0.26474
631550.63 4177000.44		631900.63 4177000.44 0.26951
632250.63 4177000.44	0.25026	632600.63 4177000.44 0.22213
632950.63 4177000.44		633300.63 4177000.44 0.18492
629800.63 4177350.44		630150.63 4177350.44 0.13746
630500.63 4177350.44		630850.63 4177350.44 0.18687
631200.63 4177350.44		631550.63 4177350.44 0.21693
631900.63 4177350.44		632250.63 4177350.44 0.19507
632600.63 4177350.44		632950.63 4177350.44 0.16481
633300.63 4177350.44		631670.70 4175493.59 14.20790
631669.80 4175641.41		631665.32 4175796.39 1.83420
631417.17 4175826.85		631417.17 4175673.66 2.34247
631422.55 4175484.63		631268.42 4175983.74 0.92696
631275.69 4175523.99		631345.65 4175419.50 0.94284
631384.72 4175441.30		631491.93 4175442.21 2.68381
631491.93 4175414.95		631385.63 4175413.14 1.20909
631358.37 4175395.87		631409.25 4175336.81 1.10208
631567.35 4175235.96		631756.33 4175028.80 1.09735
631807.22 4175003.36		631867.18 4174987.91 1.31267
631849.92 4175988.28		631268.74 4175963.75 0.94927
631269.05 4175943.76		631269.37 4175923.77 0.98271
631269.68 4175903.78		631270.00 4175883.79 1.00882
631270.32 4175863.81	1.02125	631270.63 4175843.82 1.03744
*** AERMOD - VERSION	19191 *** *** C	C:\Users\Smith\Dropbox\My PC (DESKTOP-

*** 15:02:10

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*** MODELOPTs: CONC ELEV RURAL ADJ U*

*** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:

STCK5 ***

INCLUDING SOURCE(S): STCK5

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

X-COORD (M) Y-COOF	RD (M) CONC	X-COORD (M) Y-	COORD (M) CONC	
631270.95 4175823.83	1.05170	631271.26 4175803.84	1.09080	
631271.58 4175783.85		631271.90 4175763.86	1.10008	
631272.21 4175743.87		631272.53 4175723.88	1.24067	
631272.85 4175703.89		631273.16 4175683.90	1.14317	
631273.48 4175663.91		631273.79 4175643.92	1.11116	
631274.11 4175623.94		631274.43 4175603.95	1.09055	
631274.74 4175583.96	1.01508	631275.06 4175563.97	0.94873	
631275.37 4175543.98	0.90529	631285.68 4175509.06	0.86102	
631295.68 4175494.14	0.92615	631305.67 4175479.21	0.97781	
631315.67 4175464.28	0.98888	631325.66 4175449.35	0.99853	
631335.66 4175434.43	0.99790	631358.67 4175426.77	1.01158	
631371.70 4175434.03	1.16260	631402.59 4175441.45	1.46312	
631420.46 4175441.60		631438.33 4175441.76	1.35745	
631456.19 4175441.91	1.84794	631474.06 4175442.06	2.32436	
631491.93 4175428.58	2.31315	631474.21 4175414.65	1.88189	
631456.50 4175414.35	1.67473	631438.78 4175414.05	1.31787	
631421.06 4175413.74	1.50188	631403.35 4175413.44	1.31883	
631372.00 4175404.51		631371.09 4175381.11	1.08997	
631383.81 4175366.34		631396.53 4175351.58	1.11491	
631425.06 4175326.73		631440.87 4175316.64	1.11982	
631456.68 4175306.56		631472.49 4175296.47	1.50684	
631488.30 4175286.39		631504.11 4175276.30	1.62117	
631519.92 4175266.22		631535.73 4175256.13	1.61718	
631551.54 4175246.05		631579.95 4175222.15	1.45759	
631592.55 4175208.34		631605.15 4175194.53	1.57416	
631617.74 4175180.72		631630.34 4175166.91	1.62944	
631642.94 4175153.10		631655.54 4175139.29	1.52049	
631668.14 4175125.47		631680.74 4175111.66	1.38173	
631693.34 4175097.85		631705.94 4175084.04	1.26845	
631718.53 4175070.23		631731.13 4175056.42	1.17320	
631743.73 4175042.61		631773.29 4175020.32	1.10188	
631790.26 4175011.84		631822.21 4174999.50	1.16308	
631837.20 4174995.64	1.20747	631852.19 4174991.77	1.25891	
631866.84 4175007.53	1.44215	631866.50 4175027.14	1.60309	
631866.16 4175046.76	1.81345	631865.83 4175066.37	2.04049	
631865.49 4175085.99	2.30662	631865.15 4175105.60	2.62203	
631864.81 4175125.22	3.00856	631864.47 4175144.83	3.49503	
631864.13 4175164.45	4.10191	631863.80 4175184.06	4.86944	
631863.46 4175203.68	5.84500	631863.12 4175223.29	7.71016	
631862.78 4175242.91	12.91320	631862.44 4175262.52	17.04330	
*** AEKMOD - VEKSION	19191 *** *** C:\U	Users\Smith\Dropbox\My PC (D	ESKIUP-	

15:02:10

*** MODELOPTs: CONC ELEV RURAL ADJ U*

*** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:

STCK5 ***

INCLUDING SOURCE(S): STCK5

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

X-COORD (M) Y-COORD (M) CONC	X-COORD (M) Y-COORD (M)	CONC
631862.10 4175282.14 19.53642	631861.77 4175301.75 21.37222	
631861.43 4175321.37 26.29808	631861.09 4175340.98 32.67657	
631860.75 4175360.60 44.28402	631860.41 4175380.21 60.54152	
631860.07 4175399.83 56.67964	631859.73 4175419.44 28.78661	
631859.40 4175439.06 10.41235	631859.06 4175458.67 5.65432	
631858.72 4175478.29 3.73721	631858.38 4175497.90 2.95441	
631858.04 4175517.52 2.67028	631857.70 4175537.13 2.56221	
631857.37 4175556.75 2.18921	631857.03 4175576.36 2.01309	
631856.69 4175595.98 1.68089	631856.35 4175615.59 1.48524	
631856.01 4175635.21 1.29199	631855.67 4175654.82 1.25426	
631855.33 4175674.44 1.12308	631855.00 4175694.05 1.07148	
631854.66 4175713.67 0.94767	631854.32 4175733.28 0.91229	
631853.98 4175752.90 0.81390	631853.64 4175772.51 0.78380	
631853.30 4175792.13 0.76030	631852.97 4175811.74 0.72616	
631852.63 4175831.36 0.70895	631852.29 4175850.97 0.69148	
631851.95 4175870.59 0.67483	631851.61 4175890.20 0.71033	
631851.27 4175909.82 0.70508	631850.94 4175929.43 1.03896	
631850.60 4175949.05 1.04301	631850.26 4175968.66 0.99136	
631830.54 4175988.13 0.96664	631811.15 4175987.98 1.03503	
631791.77 4175987.83 1.09153	631772.39 4175987.67 1.14467	
631753.00 4175987.52 1.21012	631733.62 4175987.37 1.22495	
631714.24 4175987.22 1.23702	631694.85 4175987.07 1.28940	
631675.47 4175986.92 1.30585	631656.09 4175986.77 1.27874	
631636.70 4175986.62 1.29395	631617.32 4175986.46 1.31536	
631597.94 4175986.31 1.32282	631578.55 4175986.16 1.34853	
631559.17 4175986.01 1.39238	631539.79 4175985.86 1.52801	
631520.40 4175985.71 1.61636	631501.02 4175985.56 1.55316	
631481.64 4175985.40 1.39292	631462.25 4175985.25 1.18282	
631442.87 4175985.10 1.15781	631423.49 4175984.95 1.13735	
631404.10 4175984.80 1.11620	631384.72 4175984.65 1.09377	
631365.34 4175984.50 1.07057	631345.95 4175984.35 1.04510	
631326.57 4175984.19 1.01767	631307.19 4175984.04 0.98901	
631287.80 4175983.89 0.95852	631050.63 4175100.50 0.27429	
631050.63 4175200.50 0.30865	631050.63 4175300.50 0.35698	
631050.63 4175400.50 0.39644	631050.63 4175500.50 0.41663	
631050.63 4175600.50 0.45204	631050.63 4175700.50 0.49759	
631050.63 4175800.50 0.54365	631050.63 4175900.50 0.58379	
631050.63 4176000.50 0.58507	631050.63 4176100.50 0.58303	
631150.63 4175100.50 0.32865	631150.63 4175200.50 0.38193	
631150.63 4175300.50 0.45072	631150.63 4175400.50 0.51569	
*** AERMOD - VERSION 19191 *** *** C:\U	sers\Smith\Dropbox\My PC (DESKTOP-	

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15:02:10

*** MODELOPTs: CONC ELEV RURAL ADJ U*

*** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:

STCK5 ***

INCLUDING SOURCE(S): STCK5

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

X-COORD (M) Y-COO	RD (M) CONC	X-COORD (M) Y-COORD (M)	CONC
631150.63 4175500.50	0.54861	631150.63 4175600.50 0.60173	
631150.63 4175700.50	0.69784	631150.63 4175800.50 0.73556	
631150.63 4175900.50	0.73817	631150.63 4176000.50 0.72384	
631150.63 4176100.50	0.69106	631250.63 4175100.50 0.40315	
631250.63 4175200.50	0.48535	631250.63 4175300.50 0.58814	
631250.63 4175400.50	0.69645	631250.63 4175500.50 0.76493	
631250.63 4175600.50	0.87312	631250.63 4175700.50 1.03741	
631250.63 4175800.50	0.99261	631250.63 4175900.50 0.94873	
631250.63 4176000.50	0.88186	631250.63 4176100.50 0.77402	
631350.63 4175100.50	0.51021	631350.63 4175200.50 0.64605	
631350.63 4175300.50	0.81868	631350.63 4175400.50 0.96175	
631350.63 4175500.50	1.24782	631350.63 4175600.50 1.53068	
631350.63 4175700.50	1.62905	631350.63 4175800.50 1.85445	
631350.63 4175900.50	1.29871	631350.63 4176000.50 1.01603	
631350.63 4176100.50	0.82462	631450.63 4175100.50 0.66598	
631450.63 4175200.50	0.89976	631450.63 4175300.50 1.18189	
631450.63 4175400.50	1.50402	631450.63 4175500.50 2.19969	
631450.63 4175600.50	2.84253	631450.63 4175700.50 2.91332	
631450.63 4175800.50	2.41181	631450.63 4175900.50 1.75325	
631450.63 4176000.50	1.10553	631450.63 4176100.50 0.83896	
631550.63 4175100.50	0.90460	631550.63 4175200.50 1.46904	
631550.63 4175300.50	0.62637	631550.63 4175400.50 1.90706	
631550.63 4175500.50	5.93083	631550.63 4175600.50 5.55328	
631550.63 4175700.50	4.40675	631550.63 4175800.50 2.70366	
631550.63 4175900.50	1.48213	631550.63 4176000.50 1.53645	
631550.63 4176100.50	0.84778	631650.63 4175100.50 1.19523	
631650.63 4175200.50		631650.63 4175300.50 1.02273	
631650.63 4175400.50		631650.63 4175500.50 12.35568	
631650.63 4175600.50		631650.63 4175700.50 4.01473	
631650.63 4175800.50		631650.63 4175900.50 1.03949	
631650.63 4176000.50		631650.63 4176100.50 0.86447	
631750.63 4175100.50		631750.63 4175200.50 3.29484	
631750.63 4175300.50	3.21702	631750.63 4175400.50 37.65720	
631750.63 4175500.50	12.74714	631750.63 4175600.50 4.08619	
631750.63 4175700.50	1.62389	631750.63 4175800.50 0.82238	
631750.63 4175900.50		631750.63 4176000.50 1.16398	
631750.63 4176100.50	0.81604	631850.63 4175100.50 2.36423	
631850.63 4175200.50	5.27946	631850.63 4175300.50 19.55136	
631850.63 4175400.50	59.08628	631850.63 4175500.50 3.64969	
631850.63 4175600.50		631850.63 4175700.50 1.04525	
*** AERMOD - VERSION	19191 *** *** C	:\Users\Smith\Dropbox\My PC (DESKTOP-	

15:02:10

*** MODELOPTs: CONC ELEV RURAL ADJ U*

*** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:

STCK5 ***

INCLUDING SOURCE(S): STCK5

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3

	X-COORD (	M) Y-COOR	D (M) C	ONC	X-CO	OORD (M)	Y-COORD (M)	) CONC
	631850.63	4175800.50	0.77266		631850.63	4175900.50	0.72180	
	631850.63	4176000.50	0.88236		631850.63	4176100.50	0.71604	
	631950.63	4175100.50	3.55342		631950.63	4175200.50	6.92615	
	631950.63	4175300.50	14.13540		631950.63	4175400.50	27.91788	
	631950.63	4175500.50	3.57761		631950.63	4175600.50	0.86476	
	631950.63	4175700.50	0.67493		631950.63	4175800.50	0.61215	
	631950.63	4175900.50	0.99552		631950.63	4176000.50	0.77647	
	631950.63	4176100.50	0.65625		632050.63	4175100.50	3.80686	
	632050.63	4175200.50	5.74643		632050.63	4175300.50	10.38606	
	632050.63	4175400.50	17.83642		632050.63	4175500.50	4.77663	
	632050.63	4175600.50	2.02518		632050.63	4175700.50	1.38857	
	632050.63	4175800.50	1.14668		632050.63	4175900.50	0.86429	
	632050.63	4176000.50	0.70342		632050.63	4176100.50	0.59619	
*	*** AERMOD	- VERSION	19191 ***	*** C:\Users	s\Smith\Drop	box\My PC (	DESKTOP-	
	GSBU)\Docu			12/13/23				
**	* AERMET -	VERSION 18	8081 *** **	*			***	15:02:10
						PAGE 1	27	

*** MODELOPTs: CONC ELEV RURAL ADJ U*

*** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:

STCK6 ***

INCLUDING SOURCE(S): STCK6

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

X-COORD (	M) Y-COORE	O(M) CONC	X-C	OORD (M) Y	-COORD (M)	CONC
 632121.21	4174952.36	0.56920	632304.44	4174354.52	0.16626	
632192.15	4174956.32	0.58031	632420.62	4175510.15	1.64343	
632418.97	4175552.92	1.82846	631187.00	4175727.00	1.54828	
631166.00	4175729.00	1.52400	631121.00	4175719.00	1.12182	
631035.00	4174830.00	0.15110	631106.00	4174825.00	0.15813	
631937.00	4174528.00	0.20269	631322.00	4174522.00	0.09015	
629800.63	4173850.44	0.01780	630150.63	4173850.44	0.02095	
630500.63	4173850.44	0.02850	630850.63	4173850.44	0.04082	
631200.63	4173850.44	0.03618	631550.63	4173850.44	0.04754	
631900.63	4173850.44	0.06702	632250.63	4173850.44	0.08195	
632600.63	4173850.44	0.09241	632950.63	4173850.44	0.10775	
633300.63	4173850.44	0.10936	629800.63	4174200.44	0.02439	

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630150.63
                4174200.44
                              0.03214
                                                  630500.63
                                                             4174200.44
                                                                            0.04708
    630850.63
                4174200.44
                               0.05844
                                                  631200.63
                                                             4174200.44
                                                                            0.05820
    631550.63
                4174200.44
                               0.07446
                                                  631900.63
                                                             4174200.44
                                                                            0.11673
    632250.63
                4174200.44
                               0.12811
                                                  632600.63
                                                             4174200.44
                                                                            0.14839
                               0.15335
                                                                            0.14111
    632950.63
                4174200.44
                                                  633300.63
                                                             4174200.44
    629800.63
                4174550.44
                               0.04102
                                                  630150.63
                                                             4174550.44
                                                                            0.05137
    630500.63
                4174550.44
                               0.06752
                                                  630850.63
                                                             4174550.44
                                                                            0.09098
    631200.63
                4174550.44
                               0.10654
                                                  631550.63
                                                             4174550.44
                                                                            0.12240
    631900.63
                4174550.44
                               0.20813
                                                  632250.63
                                                             4174550.44
                                                                            0.23397
    632600.63
                4174550.44
                              0.24294
                                                  632950.63
                                                             4174550.44
                                                                            0.21645
                                                                            0.05287
    633300.63
                4174550.44
                               0.20447
                                                  629800.63
                                                             4174900.44
                               0.07049
                                                                            0.09970
    630150.63
                4174900.44
                                                  630500.63
                                                             4174900.44
    630850.63
                4174900.44
                               0.13435
                                                  631200.63
                                                             4174900.44
                                                                            0.19208
    631550.63
                4174900.44
                              0.25896
                                                  631900.63
                                                             4174900.44
                                                                            0.45644
    632250.63
                4174900.44
                               0.48943
                                                  632600.63
                                                             4174900.44
                                                                            0.39496
    632950.63
                4174900.44
                               0.35485
                                                  633300.63
                                                             4174900.44
                                                                            0.31161
    629800.63
                4175250.44
                               0.06539
                                                  630150.63
                                                             4175250.44
                                                                            0.10043
    630500.63
                4175250.44
                               0.15673
                                                  630850.63
                                                             4175250.44
                                                                            0.23551
    631200.63
                4175250.44
                              0.40959
                                                  631550.63
                                                             4175250.44
                                                                            0.62570
                4175250.44
                                                             4175250.44
                                                                            1.00743
    631900.63
                               1.46825
                                                  632250.63
                                                  632950.63
                                                                            0.60743
    632600.63
                4175250.44
                               0.77286
                                                             4175250.44
                                                  629800.63
    633300.63
                4175250.44
                               0.48162
                                                             4175600.44
                                                                            0.08221
    630150.63
                4175600.44
                              0.11700
                                                  630500.63
                                                             4175600.44
                                                                            0.18604
    630850.63
                4175600.44
                              0.37295
                                                  631200.63
                                                             4175600.44
                                                                            1.12412
    631550.63
                4175600.44
                              2.59581
                                                  631900.63
                                                             4175600.44
                                                                            4.24139
    632250.63
                4175600.44
                               2.77867
                                                  632600.63
                                                             4175600.44
                                                                            1.48225
    632950.63
                4175600.44
                              0.91336
                                                  633300.63
                                                             4175600.44
                                                                            0.64838
                               0.08941
    629800.63
                4175950.44
                                                  630150.63
                                                             4175950.44
                                                                            0.13415
  *** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-
977GSBU)\Documents\HRA\Tracy C ***
                                         12/13/23
*** AERMET - VERSION 18081 *** ***
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                                                                                     15:02:10
                                                                PAGE 128
*** MODELOPTs: CONC ELEV RURAL ADJ_U*
                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:
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STCK6

INCLUDING SOURCE(S): STCK6

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

X-COORD (	M) Y-COORI	O(M) CONC	X-COORD (M) Y-COORD (M) CON	١C
630500.63	4175950.44	0.25208	630850.63 4175950.44 0.56122	
631200.63	4175950.44	2.17182	631550.63 4175950.44 5.19638	
631900.63	4175950.44	4.16108	632250.63 4175950.44 3.21838	
632600.63	4175950.44	1.57014	632950.63 4175950.44 0.92906	
633300.63	4175950.44	0.64295	629800.63 4176300.44 0.10346	
630150.63	4176300.44	0.16843	630500.63 4176300.44 0.32163	
630850.63	4176300.44	0.66968	631200.63 4176300.44 1.18138	
631550.63	4176300.44	1.10854	631900.63 4176300.44 1.01429	
632250.63	4176300.44	0.86213	632600.63 4176300.44 0.76171	
632950.63	4176300.44	0.59115	633300.63 4176300.44 0.46431	
629800.63	4176650.44	0.12584	630150.63 4176650.44 0.21020	
630500.63	4176650.44	0.34016	630850.63 4176650.44 0.53759	

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977GSBU)\Documents\HRA\Tracy C ***
                                        12/13/23
*** AERMET - VERSION 18081 *** ***
                                                                                    15:02:10
                                                               PAGE 129
*** MODELOPTs: CONC ELEV RURAL ADJ U*
                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:
STCK6
                  INCLUDING SOURCE(S):
                                            STCK6
                        *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                     ** CONC OF OTHER IN MICROGRAMS/M**3
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	X-COORD (	M) Y-COORI	O(M) CONC	X-COORD (M) Y-COORD (M) C	CONC
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	631271.58	4175783.85	2.74147	631271.90 4175763.86 2.69872	
	631272.21	4175743.87	2.09479	631272.53 4175723.88 1.98736	
	631272.85	4175703.89	1.93391	631273.16 4175683.90 1.81830	
	631273.48	4175663.91	1.61424	631273.79 4175643.92 1.53635	
	631274.11	4175623.94	1.50269	631274.43 4175603.95 1.41676	
	631274.74	4175583.96	1.26874	631275.06 4175563.97 1.09385	
	631275.37	4175543.98	0.99307	631285.68 4175509.06 0.91819	
	631295.68	4175494.14	0.87784	631305.67 4175479.21 0.86406	
	631315.67	4175464.28	0.88569	631325.66 4175449.35 0.89700	
	631335.66	4175434.43	1.04754	631358.67 4175426.77 1.08334	
	631371.70	4175434.03	0.96718	631402.59 4175441.45 0.73235	

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  *** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-
977GSBU)\Documents\HRA\Tracy C ***
                                         12/13/23
*** AERMET - VERSION 18081 *** ***
                                                                             ***
                                                                                     15:02:10
                                                                PAGE 130
*** MODELOPTS: CONC ELEV RURAL ADJ U*
                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:
        ***
                  INCLUDING SOURCE(S):
                                             STCK6
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STCK6

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

X-COORD (	M) Y-COORD	O(M) CONC	X-CO	OORD (M) Y	-COORD (M)	CONC
 631862.10	4175282.14	1.60183	631861.77	4175301.75	1.63987	
631861.43	4175321.37	1.75258	631861.09	4175340.98	1.87299	
631860.75	4175360.60	2.00405	631860.41	4175380.21	2.14114	
631860.07	4175399.83	2.28727	631859.73	4175419.44	2.44073	
631859.40	4175439.06	2.59678	631859.06	4175458.67	2.76150	
631858.72	4175478.29	2.93362	631858.38	4175497.90	3.11073	
631858.04	4175517.52	3.29845	631857.70	4175537.13	3.50916	
631857.37	4175556.75	3.74614	631857.03	4175576.36	4.02894	
631856.69	4175595.98	4.37271	631856.35	4175615.59	4.81473	
631856.01	4175635.21	5.41163	631855.67	4175654.82	6.24063	
631855.33	4175674.44	7.39848	631855.00	4175694.05	8.98482	
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  *** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-
977GSBU)\Documents\HRA\Tracy C ***
                                         12/13/23
*** AERMET - VERSION 18081 *** ***
                                                                             ***
                                                                                     15:02:10
                                                                PAGE 131
*** MODELOPTS: CONC ELEV RURAL ADJ U*
                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:
STCK6
                                             STCK6
                  INCLUDING SOURCE(S):
                        *** DISCRETE CARTESIAN RECEPTOR POINTS ***
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f) CONC	X-COO	ORD (M) Y-CC	OORD (M) CONC
0.75736 6.	31150.63	4175600.50	1.03639
.29032 6.	31150.63	4175800.50	1.51694
.67204 6.	31150.63	4176000.50	1.70031
.59156 6	31250.63	4175100.50	0.30426
0.38688 6.	31250.63	4175300.50	0.50883
0.70247 6	31250.63	4175500.50	0.92524
.21565 6	31250.63	4175700.50	1.72051
2.31984 6	31250.63	4175900.50	3.67555
2.61527 6	31250.63	4176100.50	2.08006
0.32538 6	31350.63	4175200.50	0.42141
0.59034 6	31350.63	4175400.50	1.11217
0.84790 6.	31350.63	4175600.50	1.79947
()	.75736 6 .29032 6 .67204 6 .59156 6 .38688 6 .70247 6 .21565 6 .31984 6 .61527 6 .32538 6 .59034 6	.75736 631150.63 4 .29032 631150.63 4 .67204 631150.63 4 .59156 631250.63 4 .38688 631250.63 4 .70247 631250.63 4 .21565 631250.63 4 .21565 631250.63 4 .31984 631250.63 4 .61527 631250.63 4	.75736 631150.63 4175600.50 .29032 631150.63 4175800.50 .67204 631150.63 4176000.50 .59156 631250.63 4175100.50 .38688 631250.63 4175300.50 .70247 631250.63 4175500.50 .21565 631250.63 4175700.50 .31984 631250.63 4175700.50 .31984 631250.63 4175900.50 .61527 631250.63 4176100.50 .32538 631350.63 4175200.50 .59034 631350.63 4175400.50

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                                                  631750.63
                                                                            5.49099
    631750.63
                4175500.50
                               3.62096
                                                  631750.63
                                                             4175600.50
    631750.63
                4175700.50
                              10.16386
                                                  631750.63
                                                             4175800.50
                                                                            38.40535
    631750.63
                4175900.50
                              7.08177
                                                  631750.63
                                                             4176000.50
                                                                            2.59561
    631750.63
                4176100.50
                               1.74388
                                                  631850.63
                                                             4175100.50
                                                                            0.82318
                4175200.50
    631850.63
                               1.16760
                                                  631850.63
                                                             4175300.50
                                                                            1.63424
    631850.63
                4175400.50
                               2.30977
                                                  631850.63
                                                             4175500.50
                                                                            3.18078
    631850.63
                               4.50083
                4175600.50
                                                  631850.63
                                                             4175700.50
                                                                            9.66230
  *** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-
977GSBU)\Documents\HRA\Tracy C ***
                                         12/13/23
                                                                              ***
*** AERMET - VERSION 18081 *** ***
                                                                                     15:02:10
                                                                PAGE 132
*** MODELOPTs: CONC ELEV RURAL ADJ_U*
                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:
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STCK6

INCLUDING SOURCE(S): STCK6

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

X-COORD (	M) Y-COORI	O(M) CONC	X-COORD (M) Y-COORD	(M) CONC
631850.63	4175800.50	22.03752	631850.63 4175900.50 8.377	- 701
631850.63	4176000.50	2.47078	631850.63 4176100.50 1.6468	88
631950.63	4175100.50	0.86898	631950.63 4175200.50 1.187	72
631950.63	4175300.50	1.62112	631950.63 4175400.50 2.0422	28
631950.63	4175500.50	2.68103	631950.63 4175600.50 4.0763	36
631950.63	4175700.50	8.28829	631950.63 4175800.50 13.839	<del>)</del> 44
631950.63	4175900.50	7.87825	631950.63 4176000.50 2.6520	09
631950.63	4176100.50	1.55383	632050.63 4175100.50 0.8663	10
632050.63	4175200.50	1.12235	632050.63 4175300.50 1.4182	26
632050.63	4175400.50	1.76824	632050.63 4175500.50 2.3723	36
632050.63	4175600.50	3.73266	632050.63 4175700.50 6.5954	48
632050.63	4175800.50	9.19331	632050.63 4175900.50 6.5093	51

632050.63 4176000.50 2.76892 632050.63 4176100.50 1.56922 *** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-

977GSBU)\Documents\HRA\Tracy C *** 12/13/23

*** AERMET - VERSION 18081 *** *** 15:02:10

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*** MODELOPTS: CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:

STCK7 ***

INCLUDING SOURCE(S): STCK7

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

X-COORD (M) Y-	COORD (M) CONC	X-CO	OORD (M)	Y-COORD (M)	CONC
632121.21 41749	952.36 0.71784	632304.44	4174354.52	2 0.19181	
	056.32 0.70379	632420.62	4175510.15		
632418.97 41755		631187.00	4175727.00	1.92331	
631166.00 41757		631121.00	4175719.00	1.35654	
631035.00 41748	330.00 0.16471	631106.00	4174825.00	0.17567	
631937.00 41745	528.00 0.22323	631322.00	4174522.00	0.10237	
629800.63 41738	350.44 0.01826	630150.63	4173850.44	0.02180	
630500.63 41738	350.44 0.02951	630850.63	4173850.44	0.04352	
631200.63 41738	350.44 0.04115	631550.63	4173850.44	0.05203	
631900.63 41738	350.44 0.07067	632250.63	4173850.44	0.08470	
632600.63 41738	350.44 0.10365	632950.63	4173850.44	0.11944	
633300.63 41738		629800.63	4174200.44		
630150.63 41742		630500.63	4174200.44		
630850.63 41742		631200.63	4174200.44		
631550.63 41742		631900.63	4174200.44		
632250.63 41742		632600.63	4174200.44		
	200.44 0.16800	633300.63	4174200.44		
	550.44 0.04479	630150.63	4174550.44		
	550.44 0.07162	630850.63	4174550.44		
	550.44 0.11709	631550.63	4174550.44		
631900.63 41745		632250.63	4174550.44		
	550.44 0.27454	632950.63	4174550.44		
	550.44 0.22939	629800.63	4174900.44		
	0.07541	630500.63	4174900.44		
630850.63 41749		631200.63	4174900.44		
631550.63 41749		631900.63	4174900.44		
632250.63 41749		632600.63	4174900.44		
632950.63 41749		633300.63	4174900.44		
	250.44 0.06642	630150.63	4175250.44		
	250.44 0.17369	630850.63	4175250.44		
631200.63 41752		631550.63	4175250.44		
631900.63 41752		632250.63	4175250.44		
	250.44 0.95665	632950.63	4175250.44		
	250.44 0.53614	629800.63	4175600.44		
	600.44 0.12719	630500.63	4175600.44		
	500.44 0.44180	631200.63	4175600.44		
631550.63 41756		631900.63	4175600.44		
	600.44 4.18262	632600.63	4175600.44		
632950.63 41756	0.96767	633300.63	4175600.44	0.67241	

629800.63 4175950.44 0.09417 630150.63 4175950.44 0.14139 *** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-

977GSBU)\Documents\HRA\Tracy C *** 12/13/23

*** AERMET - VERSION 18081 *** *** 15:02:10

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*** MODELOPTS: CONC ELEV RURAL ADJ_U*

*** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:

STCK7 ***

INCLUDING SOURCE(S): STCK7

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

X-COORD (M	Y-COORD (	M) CONC	X-CO	OORD (M)	Y-COORD (M)	CONC
630500.63	4175950.44	0.26481	630850.63	4175950.4	4 0.65136	
	4175950.44	2.25187	631550.63	4175950.44		
631900.63	4175950.44	1.76782	632250.63	4175950.44	4 1.85136	
632600.63	4175950.44	1.28451	632950.63	4175950.44	4 0.84244	
633300.63	4175950.44	0.59995	629800.63	4176300.44	4 0.11169	
630150.63	4176300.44	0.18442	630500.63	4176300.44	4 0.35318	
630850.63	4176300.44	0.68403	631200.63	4176300.44	4 0.98714	
631550.63	4176300.44	0.86855	631900.63	4176300.44	4 0.77586	
632250.63	4176300.44	0.69924	632600.63	4176300.44	4 0.61725	
	4176300.44	0.50828	633300.63	4176300.44		
	4176650.44	0.13366	630150.63	4176650.44		
	4176650.44	0.34283	630850.63	4176650.44		
	4176650.44	0.54338	631550.63	4176650.44		
	4176650.44	0.45875	632250.63	4176650.44		
	4176650.44	0.38269	632950.63	4176650.44		
	4176650.44	0.27417	629800.63	4177000.4		
	4177000.44	0.20320	630500.63	4177000.4		
	4177000.44	0.34103	631200.63	4177000.4		
	4177000.44	0.35392	631900.63	4177000.44		
	4177000.44	0.30103	632600.63	4177000.44		
	4177000.44	0.23399	633300.63	4177000.4		
	4177350.44	0.13655	630150.63	4177350.4		
	4177350.44	0.20837	630850.63	4177350.4		
	4177350.44	0.26920	631550.63	4177350.4		
	4177350.44	0.24146	632250.63	4177350.4		
	4177350.44	0.20571	632950.63	4177350.44		
	4177350.44 4175641.41	0.15899 26.50689	631670.70 631665.32	4175493.59 4175796.3		
	4175826.85	6.51849	631417.17	4175673.60		
	4175484.63	1.59193	631268.42	4175983.74		
	4175523.99	1.56798	631345.65	4175419.50		
	4175441.30	1.06187	631491.93	4175442.2		
	4175414.95	2.04207	631385.63	4175413.14		
	4175395.87	1.65901	631409.25	4175336.8		
	4175235.96	0.91475	631756.33	4175028.80		
	4175003.36	0.72271	631867.18	4174987.9		
	4175988.28	1.55769	631268.74	4175963.75		
	4175943.76	4.24897	631269.37	4175923.7		
	4175903.78	3.76435	631270.00	4175883.79		
021207.00	/ 6 / 00 . / 0	2	221270.00		2.,2000	

631270.32 4175863.81 3.78547 631270.63 4175843.82 4.00091 *** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-

977GSBU)\Documents\HRA\Tracy C *** 12/13/23

*** AERMET - VERSION 18081 *** *** 15:02:10

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*** MODELOPTs: CONC ELEV RURAL ADJ U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:

STCK7 ***

INCLUDING SOURCE(S): STCK7

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

X-COORD (M) Y-COO	RD (M) CONC	X-COORD (M)	Y-COORD (M)	CONC
631270.95 4175823.83	3 4.16643	631271.26 4175803.84	4.37557	
631271.58 4175783.85		631271.90 4175763.86		
631272.21 4175743.87		631272.53 4175723.88		
631272.85 4175703.89		631273.16 4175683.90		
631273.48 4175663.91		631273.79 4175643.92	2.52847	
631274.11 4175623.94	1 2.44403	631274.43 4175603.95	2.27504	
631274.74 4175583.96	5 2.05421	631275.06 4175563.97	1.71577	
631275.37 4175543.98	3 1.57969	631285.68 4175509.06	5 1.59410	
631295.68 4175494.14	1.55055	631305.67 4175479.21	1.52717	
631315.67 4175464.28	3 1.55036	631325.66 4175449.35	5 1.52542	
631335.66 4175434.43	3 1.68274	631358.67 4175426.77	7 1.71334	
631371.70 4175434.03	3 1.55179	631402.59 4175441.45	5 1.15539	
631420.46 4175441.60	1.15924	631438.33 4175441.76	1.36561	
631456.19 4175441.91	1.61485	631474.06 4175442.06		
631491.93 4175428.58		631474.21 4175414.65		
631456.50 4175414.35		631438.78 4175414.05		
631421.06 4175413.74		631403.35 4175413.44		
631372.00 4175404.51		631371.09 4175381.11		
631383.81 4175366.34		631396.53 4175351.58		
631425.06 4175326.73		631440.87 4175316.64		
631456.68 4175306.56		631472.49 4175296.47		
631488.30 4175286.39		631504.11 4175276.30		
631519.92 4175266.22		631535.73 4175256.13		
631551.54 4175246.05		631579.95 4175222.15		
631592.55 4175208.34		631605.15 4175194.53		
631617.74 4175180.72		631630.34 4175166.91		
631642.94 4175153.10		631655.54 4175139.29		
631668.14 4175125.47		631680.74 4175111.66		
631693.34 4175097.85		631705.94 4175084.04		
631718.53 4175070.23		631731.13 4175056.42		
631743.73 4175042.61		631773.29 4175020.32		
631790.26 4175011.84		631822.21 4174999.50		
631837.20 4174995.64		631852.19 4174991.77		
631866.84 4175007.53		631866.50 4175027.14		
631866.16 4175046.76		631865.83 4175066.37		
631865.49 4175085.99		631865.15 4175105.60		
631864.81 4175125.22		631864.47 4175144.83		
631864.13 4175164.45		631863.80 4175184.06		
631863.46 4175203.68	3 1.64933	631863.12 4175223.29	1.78592	

631862.78 4175242.91 1.93213 631862.44 4175262.52 2.06936 *** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-

977GSBU)\Documents\HRA\Tracy C *** 12/13/23

*** AERMET - VERSION 18081 *** ***

*** 15:02:10

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*** MODELOPTS: CONC ELEV RURAL ADJ_U*

*** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:

STCK7 ***

INCLUDING SOURCE(S): STCK7

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

X-COORD (M)	Y-COORD (	M) CONC	X-CC	OORD (M) Y-C	COORD (M)	CONC
631862.10 4	175282.14	2.20370	631861.77	4175301.75	2.34569	
		2.50781	631861.09	4175340.98	2.68034	
		2.86160	631860.41	4175380.21	3.05612	
		3.26071	631859.73	4175419.44	3.47599	
631859.40 4	175439.06	3.70385	631859.06	4175458.67	3.96304	
631858.72 4	175478.29	4.27251	631858.38	4175497.90	4.67668	
631858.04 4	175517.52	5.23009	631857.70	4175537.13	6.02681	
631857.37 4	175556.75	7.21284	631857.03	4175576.36	8.91343	
631856.69 4	175595.98	11.19747	631856.35	4175615.59	13.97329	
631856.01 4	175635.21	16.96507	631855.67	4175654.82	19.73901	
631855.33 4	175674.44	21.75658	631855.00	4175694.05	22.43100	
631854.66 4	175713.67	21.42462	631854.32	4175733.28	18.91433	
631853.98 4	175752.90	15.54347	631853.64	4175772.51	12.03989	
631853.30 4	175792.13	8.91072	631852.97	4175811.74	6.44370	
		4.70283	631852.29	4175850.97	3.58688	
		2.89223	631851.61	4175890.20	2.45499	
		2.16582	631850.94	4175929.43	1.95678	
	175949.05	1.79562	631850.26	4175968.66	1.66694	
	175988.13	1.58536	631811.15	4175987.98	1.61737	
	175987.83	1.66598	631772.39	4175987.67	1.71523	
		1.76193	631733.62	4175987.37	1.78726	
		1.83588	631694.85	4175987.07	1.89261	
		1.95484	631656.09	4175986.77	2.01957	
		2.07428	631617.32	4175986.46	2.12128	
		2.13655	631578.55	4175986.16	2.19236	
		2.28362	631539.79	4175985.86	2.41126	
		2.49208	631501.02	4175985.56	2.51795	
		2.54356	631462.25	4175985.25	2.68161	
		2.71887	631423.49	4175984.95	2.70190	
	175984.80	3.10300	631384.72	4175984.65	3.26635	
		3.69852	631345.95	4175984.35	3.98550	
		4.10311	631307.19	4175984.04	4.14668	
	175983.89	3.96764	631050.63	4175100.50	0.27023	
	175200.50	0.33366	631050.63	4175300.50	0.42208	
	175400.50	0.54335	631050.63	4175500.50	0.68428	
	175600.50	0.80748	631050.63	4175700.50	0.89464	
	175800.50	1.01867	631050.63	4175900.50	1.21499	
	176000.50	1.23295	631050.63	4176100.50	1.18209	
631150.63 4	175100.50	0.31463	631150.63	4175200.50	0.39936	

631150.63 4175300.50 0.52398 631150.63 4175400.50 0.70286 *** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-

977GSBU)\Documents\HRA\Tracy C *** 12/13/23

*** AERMET - VERSION 18081 *** *** 15:02:10

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*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:

STCK7 ***

INCLUDING SOURCE(S): STCK7

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

X-COORD (	M)	Y-COORE	) (M)	CONC	X-CC	OORD (M)	Y-CO	ORD (M)	CONC
 631150.63	41	75500.50	0.9852	 2	631150.63	4175600.5	0	1.23474	
631150.63		75700.50	1.5339		631150.63	4175800.5		1.76580	
631150.63	41	75900.50	1.8852	5	631150.63	4176000.5	0 :	1.75266	
631150.63	41	76100.50	1.5123	6	631250.63	4175100.5	0 (	0.36403	
631250.63	41	75200.50	0.4766	1	631250.63	4175300.5	0 (	0.65267	
631250.63	41	75400.50	0.9249	8	631250.63	4175500.5	0	1.63006	
631250.63	41	75600.50	1.9425	7	631250.63	4175700.5	0 2	2.76253	
631250.63	41	75800.50	3.7743	5	631250.63	4175900.5	0 3	3.81740	
631250.63	41	76000.50	2.3896	0	631250.63	4176100.5	0 .	1.73422	
631350.63	41	75100.50	0.4078	6	631350.63	4175200.5	0 (	0.55176	
631350.63	41	75300.50	0.8068	6	631350.63	4175400.5	0	1.66637	
631350.63	41	75500.50	1.3527	5	631350.63	4175600.5	0 3	3.18662	
631350.63		75700.50	10.2439		631350.63	4175800.5		7.44561	
631350.63		75900.50	3.5549		631350.63	4176000.5		3.66129	
631350.63		76100.50	1.6984		631450.63	4175100.5		0.46911	
631450.63		75200.50	0.6563		631450.63	4175300.5		0.89059	
631450.63		75400.50	1.7341		631450.63	4175500.5		1.67790	
631450.63		75600.50	4.7839		631450.63	4175700.5		5.13999	
631450.63		75800.50	7.6456		631450.63	4175900.5		2.25771	
631450.63		76000.50	2.4911		631450.63	4176100.5		1.53692	
631550.63		75100.50	0.5991		631550.63	4175200.5		0.91965	
631550.63		75300.50	0.9867		631550.63	4175400.5		1.70960	
631550.63		75500.50	2.6280		631550.63	4175600.5		7.81465	
631550.63		75700.50	146.827		631550.63			4.47385	
631550.63		75900.50	1.8555		631550.63	4176000.5		2.14904	
631550.63		76100.50	1.4167		631650.63	4175100.5		0.77931	
631650.63		75200.50	1.2618		631650.63	4175300.5		1.75947	
631650.63		75400.50	3.2295		631650.63	4175500.5		7.53363	
631650.63		75600.50	18.4519		631650.63	4175700.5		85.79629	
631650.63		75800.50	6.6099		631650.63	4175900.5		2.83682	
631650.63		76000.50	1.9649		631650.63	4176100.5		1.31090	
631750.63		75100.50	0.9698		631750.63	4175200.5		1.53241	
631750.63		75300.50	2.3159		631750.63	4175400.5		3.79918	
631750.63		75500.50	5.9275		631750.63	4175600.5		2.54322	
631750.63		75700.50	40.4268		631750.63	4175800.5		6.52367	
631750.63		75900.50	2.4243 1.2268		631750.63	4176000.5		1.68846	
631750.63 631850.63		76100.50 75200.50	1.6314		631850.63	4175100.5 4175300.5		1.10663 2.35299	
631850.63		75200.50 75400.50	3.3240		631850.63 631850.63	4175500.5		2.33 <i>2</i> 99 4.79572	
031030.03	41	13400.30	3.3240	1	031030.03	+1/3300.3	0 4	t./73/4	

631850.63 4175600.50 631850.63 4175700.50 11.89228 22.78747 *** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-

977GSBU)\Documents\HRA\Tracy C *** 12/13/23

*** AERMET - VERSION 18081 *** *** 15:02:10

**PAGE 138** 

*** MODELOPTs: CONC ELEV RURAL ADJ U*

*** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:

STCK7

INCLUDING SOURCE(S): STCK7

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3

X-COORD (M) Y-COORD (M)	CONC X-C	OORD (M) Y-C	COORD (M)	CONC
631850.63 4175800.50 7.758	03 631850.63	4175900.50	2.28972	
631850.63 4176000.50 1.500	01 631850.63	4176100.50	1.15758	
631950.63 4175100.50 1.143	71 631950.63	4175200.50	1.57409	
631950.63 4175300.50 2.104	20 631950.63	4175400.50	2.76615	
631950.63 4175500.50 4.332	19 631950.63	4175600.50	9.90588	
631950.63 4175700.50 14.148	631950.63	4175800.50	7.39905	
631950.63 4175900.50 2.472	36 631950.63	4176000.50	1.45583	
631950.63 4176100.50 1.106	28 632050.63	4175100.50	1.09638	
632050.63 4175200.50 1.422	87 632050.63	4175300.50	1.81124	
632050.63 4175400.50 2.430	97 632050.63	4175500.50	3.98526	
632050.63 4175600.50 7.616	13 632050.63	4175700.50	9.32629	
632050.63 4175800.50 6.181	66 632050.63	4175900.50	2.62433	
632050.63 4176000.50 1.497	04 632050.63	4176100.50	1.08017	
*** AERMOD - VERSION 19191 **	* *** C:\Users\Smith\Dro	pbox\My PC (DE	ESKTOP-	
977GSBU)\Documents\HRA\Tracy C **	* 12/13/23	- • •		
*** AERMET - VERSION 18081 ***	***		***	15:02:10
		PAGE 139		

*** MODELOPTs: CONC ELEV RURAL ADJ U*

*** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:

STCK8

INCLUDING SOURCE(S): STCK8

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

X-COORD (	M) Y-COORI	O(M) CONC	X-C0	OORD (M) Y-	COORD (M)	CONC
 632121.21	4174952.36	0.91921	632304.44	4174354.52	0.22966	
632192.15	4174956.32	0.88472	632420.62	4175510.15	2.67702	
632418.97	4175552.92	2.71398	631187.00	4175727.00	2.72908	
631166.00	4175729.00	2.50203	631121.00	4175719.00	1.68984	
631035.00	4174830.00	0.18210	631106.00	4174825.00	0.19758	
631937.00	4174528.00	0.26322	631322.00	4174522.00	0.11665	
629800.63	4173850.44	0.01891	630150.63	4173850.44	0.02275	
630500.63	4173850.44	0.03067	630850.63	4173850.44	0.04632	
631200.63	4173850.44	0.04450	631550.63	4173850.44	0.05631	
631900.63	4173850.44	0.07309	632250.63	4173850.44	0.09418	

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632600.63
               4173850.44
                             0.11799
                                                632950.63
                                                           4173850.44
                                                                         0.13239
                             0.12630
    633300.63
               4173850.44
                                                629800.63
                                                           4174200.44
                                                                         0.02733
                                                                         0.05172
    630150.63
               4174200.44
                             0.03528
                                                630500.63
                                                           4174200.44
    630850.63
               4174200.44
                             0.06691
                                                631200.63
                                                           4174200.44
                                                                         0.07118
                                                631900.63
                                                                         0.13791
    631550.63
               4174200.44
                             0.09120
                                                           4174200.44
    632250.63
               4174200.44
                             0.16434
                                                632600.63
                                                           4174200.44
                                                                         0.19646
    632950.63
               4174200.44
                             0.18513
                                                633300.63
                                                           4174200.44
                                                                         0.16877
                                                                         0.05825
    629800.63
               4174550.44
                             0.04800
                                                630150.63
                                                           4174550.44
    630500.63
               4174550.44
                             0.07699
                                                630850.63
                                                           4174550.44
                                                                         0.10152
    631200.63
               4174550.44
                             0.13254
                                                631550.63
                                                           4174550.44
                                                                         0.16186
                                                632250.63
                                                                         0.34021
    631900.63
               4174550.44
                             0.27158
                                                           4174550.44
    632600.63
               4174550.44
                             0.31601
                                                632950.63
                                                           4174550.44
                                                                         0.27728
    633300.63
               4174550.44
                             0.25953
                                                629800.63
                                                           4174900.44
                                                                         0.05984
    630150.63
               4174900.44
                             0.07862
                                                630500.63
                                                           4174900.44
                                                                         0.11887
    630850.63
               4174900.44
                             0.16419
                                                631200.63
                                                           4174900.44
                                                                         0.25694
    631550.63
               4174900.44
                             0.40879
                                                631900.63
                                                           4174900.44
                                                                         0.74871
    632250.63
                                                632600.63
                                                                         0.58494
               4174900.44
                             0.74397
                                                           4174900.44
    632950.63
               4174900.44
                             0.48770
                                                633300.63
                                                           4174900.44
                                                                         0.40231
    629800.63
               4175250.44
                             0.06924
                                                630150.63
                                                           4175250.44
                                                                         0.10708
    630500.63
               4175250.44
                             0.18300
                                                630850.63
                                                           4175250.44
                                                                         0.31099
    631200.63
               4175250.44
                             0.64579
                                                631550.63
                                                           4175250.44
                                                                         1.63605
    631900.63
               4175250.44
                             2.71521
                                                632250.63
                                                           4175250.44
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                             1.17248
                                                632950.63
                                                           4175250.44
                                                                         0.80888
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               4175250.44
                             0.58930
                                                629800.63
                                                           4175600.44
                                                                         0.08497
    630150.63
               4175600.44
                             0.12550
                                                630500.63
                                                           4175600.44
                                                                         0.21238
    630850.63
               4175600.44
                             0.45023
                                                631200.63
                                                           4175600.44
                                                                         1.75049
    631550.63
               4175600.44
                             139.78118
                                                 631900.63
                                                           4175600.44
                                                                         17.33719
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                             4.43571
                                                632600.63
                                                           4175600.44
                                                                         1.72416
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               4175600.44
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                                                633300.63
                                                           4175600.44
                                                                         0.67589
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                                                630150.63
                                                          4175950.44
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                                        12/13/23
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*** AERMET - VERSION 18081 *** ***
                                                                                  15:02:10
                                                              PAGE 140
*** MODELOPTs: CONC ELEV RURAL ADJ U*
               *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:
        ***
STCK8
                 INCLUDING SOURCE(S):
                                           STCK8
                       *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                                                                              **
                     ** CONC OF OTHER IN MICROGRAMS/M**3
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X-COORD (	M) Y-COORI	O(M) CONC	X-COORD (M) Y-COORD (M) CONC	7)
630500.63	4175950.44	0.29301	630850.63 4175950.44 0.71132	
631200.63	4175950.44	2.12685	631550.63 4175950.44 1.50024	
631900.63	4175950.44	1.21177	632250.63 4175950.44 1.24015	
632600.63	4175950.44	1.00989	632950.63 4175950.44 0.73161	
633300.63	4175950.44	0.54473	629800.63 4176300.44 0.11911	
630150.63	4176300.44	0.19995	630500.63 4176300.44 0.37202	
630850.63	4176300.44	0.68830	631200.63 4176300.44 0.85308	
631550.63	4176300.44	0.72157	631900.63 4176300.44 0.64371	
632250.63	4176300.44	0.58506	632600.63 4176300.44 0.50347	
632950.63	4176300.44	0.43813	633300.63 4176300.44 0.36526	

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                                                 631550.63
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                              0.41158
                                                 632250.63
                                                            4176650.44
                                                                           0.39745
                                                 632950.63
                                                                           0.28214
    632600.63
               4176650.44
                              0.34060
                                                            4176650.44
    633300.63
               4176650.44
                              0.24539
                                                 629800.63
                                                            4177000.44
                                                                           0.14439
    630150.63
                4177000.44
                              0.20088
                                                 630500.63
                                                            4177000.44
                                                                           0.27077
    630850.63
               4177000.44
                              0.31642
                                                 631200.63
                                                            4177000.44
                                                                           0.36552
    631550.63
               4177000.44
                              0.32959
                                                 631900.63
                                                            4177000.44
                                                                           0.29950
    632250.63
               4177000.44
                              0.26990
                                                 632600.63
                                                            4177000.44
                                                                           0.25165
    632950.63
               4177000.44
                                                                           0.18490
                              0.21550
                                                 633300.63
                                                            4177000.44
    629800.63
                4177350.44
                              0.13396
                                                 630150.63
                                                            4177350.44
                                                                           0.16834
    630500.63
               4177350.44
                              0.19799
                                                 630850.63
                                                            4177350.44
                                                                           0.22557
    631200.63
               4177350.44
                              0.25584
                                                 631550.63
                                                            4177350.44
                                                                           0.23914
    631900.63
               4177350.44
                              0.22651
                                                 632250.63
                                                            4177350.44
                                                                           0.18985
    632600.63
               4177350.44
                              0.19069
                                                 632950.63
                                                            4177350.44
                                                                           0.16909
    633300.63
               4177350.44
                              0.14929
                                                 631670.70
                                                            4175493.59
                                                                           13.38366
    631669.80
               4175641.41
                              20.33171
                                                  631665.32
                                                             4175796.39
                                                                           2.80039
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                4175826.85
                              3.99250
                                                 631417.17
                                                            4175673.66
                                                                           18.87437
    631422.55
               4175484.63
                                                 631268.42
                                                            4175983.74
                                                                           2.38209
                              2.06919
               4175523.99
                              2.60137
                                                 631345.65
                                                            4175419.50
    631275.69
                                                                           2.74862
    631384.72
               4175441.30
                              1.41103
                                                 631491.93
                                                            4175442.21
                                                                           4.22257
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               4175414.95
                              3.92796
                                                 631385.63
                                                            4175413.14
                                                                           2.73777
    631358.37
               4175395.87
                              2.56825
                                                 631409.25
                                                            4175336.81
                                                                           1.77081
    631567.35
               4175235.96
                              1.61720
                                                 631756.33
                                                            4175028.80
                                                                           1.03405
    631807.22
                                                 631867.18
               4175003.36
                              1.00718
                                                            4174987.91
                                                                           1.02149
    631849.92
               4175988.28
                              1.15304
                                                 631268.74
                                                            4175963.75
                                                                           3.49476
               4175943.76
                              3.41343
    631269.05
                                                 631269.37
                                                            4175923.77
                                                                           3.27516
    631269.68
               4175903.78
                              3.34950
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                                                            4175883.79
                                                                           3.58801
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                              3.94210
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*** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-
977GSBU)\Documents\HRA\Tracy C ***
                                         12/13/23
*** AERMET - VERSION 18081 *** ***
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                                                                                    15:02:10
                                                                PAGE 141
*** MODELOPTs: CONC ELEV RURAL ADJ U*
                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:
STCK8
        ***
                                             STCK8
                  INCLUDING SOURCE(S):
                        *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                     ** CONC OF OTHER IN MICROGRAMS/M**3
```

630850.63

4176650.44

4176650.44

0.22147

0.47162

629800.63

630500.63

4176650.44

4176650.44

0.13957

0.34461

X-COORD (	(M) Y-COORI	O(M) CONC	X-COORD (M) Y-COORD (M)	CONC
631270.95	4175823.83	4.71636	631271.26 4175803.84 4.94882	
631271.58	4175783.85	5.08136	631271.90 4175763.86 5.14816	
631272.21	4175743.87	5.01817	631272.53 4175723.88 4.63958	
631272.85	4175703.89	4.10608	631273.16 4175683.90 3.96321	
631273.48	4175663.91	4.93281	631273.79 4175643.92 6.25343	
631274.11	4175623.94	5.32401	631274.43 4175603.95 3.29240	
631274.74	4175583.96	2.62393	631275.06 4175563.97 2.41289	
631275.37	4175543.98	2.43305	631285.68 4175509.06 2.68934	
631295.68	4175494.14	2.68745	631305.67 4175479.21 2.63333	
631315.67	4175464.28	2.50397	631325.66 4175449.35 2.46538	

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                                                          4175414.65
    631456.50
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                             3.12584
                                               631438.78
                                                          4175414.05
                                                                        3.01588
    631421.06
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                             2.60858
                                                          4175413.44
                                                                        2.58241
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               4175326.73
                             1.68377
                                               631440.87
                                                          4175316.64
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                                               631472.49
    631456.68
               4175306.56
                             1.57270
                                                          4175296.47
                                                                         1.55897
                                               631504.11
    631488.30
               4175286.39
                             1.80590
                                                          4175276.30
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               4175266.22
                             1.65350
                                               631535.73
                                                          4175256.13
                                                                         1.62131
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               4175246.05
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                                               631579.95
                                                          4175222.15
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               4175208.34
                             1.52316
                                               631605.15
                                                          4175194.53
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    631617.74
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                                                                         1.40328
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    631718.53
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                                               631731.13
                                                          4175056.42
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               4175042.61
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                                               631773.29
                                                          4175020.32
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               4175011.84
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                                                          4174999.50
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               4175242.91
                             2.80442
                                               631862.44 4175262.52
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  977GSBU)\Documents\HRA\Tracy C ***
                                       12/13/23
*** AERMET - VERSION 18081 *** ***
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                                                                                  15:02:10
                                                              PAGE 142
*** MODELOPTs: CONC ELEV RURAL ADJ U*
               *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:
STCK8
        ***
                 INCLUDING SOURCE(S):
                                           STCK8
                       *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                                                                              **
                    ** CONC OF OTHER IN MICROGRAMS/M**3
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X-CC	OORD (M	M) Y-COORD	(M) CONC	X-CC	OORD (M) Y-C	OORD (M)	CONC
6319	 862.10	4175282.14	3.20434	631861.77	4175301.75	3.41245	
		4175321.37	3.63316	631861.77	4175340.98	3.86680	
		4175360.60	4.11933	631860.41	4175380.21	4.41211	
		4175399.83	4.77339	631859.73	4175419.44	5.27090	
		4175439.06	6.03678	631859.06	4175458.67	7.27639	
6318	858.72	4175478.29	9.21382	631858.38	4175497.90	11.92605	
6318	858.04	4175517.52	15.16144	631857.70	4175537.13	18.36695	
6318	357.37	4175556.75	20.88595	631857.03	4175576.36	22.16514	
6318	856.69	4175595.98	21.83186	631856.35	4175615.59	19.80395	
6318	356.01	4175635.21	16.52977	631855.67	4175654.82	12.86958	

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                4175949.05
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                                                 631850.26
                                                             4175968.66
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    631753.00
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                                                 631733.62
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                              1.28977
                                                             4175987.37
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                4175987.22
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                                                 631694.85
                                                             4175987.07
                                                                           1.34477
    631675.47
                4175986.92
                              1.39537
                                                 631656.09
                                                             4175986.77
                                                                           1.43104
    631636.70
               4175986.62
                              1.49779
                                                 631617.32
                                                             4175986.46
                                                                           1.52415
    631597.94
                4175986.31
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    631520.40
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                                                 631501.02
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                                                             4175984.65
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                                                                           2.69201
    631365.34
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                                                 631345.95
                                                             4175984.35
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                4175984.50
                                                 631307.19
    631326.57
                4175984.19
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                                                             4175984.04
                                                                           3.22910
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               4175983.89
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                4175200.50
                              0.40169
                                                 631050.63
                                                             4175300.50
                                                                           0.51461
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                4175400.50
                              0.65144
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                                                             4175500.50
                                                                           0.78481
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                4175600.50
                              0.87418
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                                                             4175700.50
                                                                           0.95631
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               4175800.50
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                                                 631050.63
                                                             4175900.50
                                                                           1.30389
                                                             4176100.50
    631050.63
               4176000.50
                              1.26627
                                                 631050.63
                                                                           1.15811
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                4175100.50
                              0.37672
                                                 631150.63
                                                             4175200.50
                                                                           0.49291
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    631150.63
                              0.66897
                                                 631150.63
                                                            4175400.50
                                                                           0.90553
  *** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-
977GSBU)\Documents\HRA\Tracy C ***
                                         12/13/23
*** AERMET - VERSION 18081 *** ***
                                                                             ***
                                                                                     15:02:10
                                                                PAGE 143
*** MODELOPTs: CONC ELEV RURAL ADJ U*
                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:
STCK8
        ***
                  INCLUDING SOURCE(S):
                                             STCK8
                        *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                     ** CONC OF OTHER IN MICROGRAMS/M**3
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4175694.05

7.05454

9.59481

631855.33

4175674.44

X-COORD (	M) Y-COORI	O(M) CONC	X-CO	OORD (M)	Y-COORD (M)	CONC
 631150.63	4175500.50	1.18183	631150.63	4175600.50	1.48271	
631150.63	4175700.50	1.95889	631150.63	4175800.50	2.30448	
631150.63	4175900.50	1.93136	631150.63	4176000.50	1.66657	
631150.63	4176100.50	1.34100	631250.63	4175100.50	0.45681	
631250.63	4175200.50	0.61865	631250.63	4175300.50	0.87973	
631250.63	4175400.50	1.29808	631250.63	4175500.50	2.35154	
631250.63	4175600.50	2.34468	631250.63	4175700.50	3.39351	
631250.63	4175800.50	4.31849	631250.63	4175900.50	3.44166	
631250.63	4176000.50	1.99588	631250.63	4176100.50	1.40687	
631350.63	4175100.50	0.54512	631350.63	4175200.50	0.78218	

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               4175900.50
                              2.96263
                                                 631350.63
                                                            4176000.50
                                                                           2.77559
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               4176100.50
                              1.38254
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               4175200.50
                              0.96157
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                                                            4175300.50
                                                                           1.49677
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                                                 631450.63
                                                            4175500.50
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                              66.62763
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                                                            4175700.50
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                              1.93299
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                                                                           1.26131
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                              1.12201
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                                                            4175900.50
    631650.63
                              2.56872
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                              5.48103
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                                                            4176000.50
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               4176100.50
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               4175200.50
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                                                            4175300.50
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    631850.63
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                                                 631850.63 4175700.50
    631850.63
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                                                                           6.37104
  *** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-
977GSBU)\Documents\HRA\Tracy C ***
                                        12/13/23
*** AERMET - VERSION 18081 *** ***
                                                                                    15:02:10
                                                               PAGE 144
*** MODELOPTs: CONC ELEV RURAL ADJ U*
                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:
STCK8
                  INCLUDING SOURCE(S):
                                            STCK8
                        *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                     ** CONC OF OTHER IN MICROGRAMS/M**3
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4175400.50

2.58864

631350.63

4175300.50

1.18780

X-COORD (M) Y-COORD (M) **CONC** X-COORD (M) Y-COORD (M) **CONC** 2.20986 631850.63 4175800.50 631850.63 4175900.50 1.44499 4176000.50 1.11962 631850.63 4176100.50 631850.63 0.90616 631950.63 4175100.50 1.58748 631950.63 4175200.50 2.16803 2.86149 631950.63 4175400.50 631950.63 4175300.50 4.20416 631950.63 4175500.50 10.52894 631950.63 4175600.50 13.82879 631950.63 4175700.50 6.21569 631950.63 4175800.50 2.36241 631950.63 4175900.50 1.38350 631950.63 4176000.50 1.04903 631950.63 4176100.50 0.86731 632050.63 4175100.50 1.44683 632050.63 4175200.50 1.86597 632050.63 4175300.50 2.44512 632050.63 4175400.50 3.87565 632050.63 4175500.50 8.10026

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632050.63 4175600.50 9.13885 632050.63 4175700.50 5.35016 632050.63 4175800.50 2.49983 632050.63 4175900.50 1.42994 632050.63 4176000.50 1.02376 632050.63 4176100.50 0.83564 *** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-
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*** AERMET - VERSION 18081 *** ***

*** 15:02:10

**PAGE 145** 

*** MODELOPTs: CONC ELEV RURAL ADJ U*

*** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:

STCK9 ***

INCLUDING SOURCE(S): STCK9

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

X-COORD (M) Y-C	COORD (M) CONC	X-COORD (M)	Y-COORD (M) CONC	
632121.21 417495	52.36 1.20056	632304.44 4174354.5	52 0.28214	
632192.15 417495	56.32 1.14861	632420.62 4175510.1	2.70587	
632418.97 417555	52.92 2.57356	631187.00 4175727.0	00 2.01959	
631166.00 417572	29.00 1.76239	631121.00 4175719.0	00 1.58073	
631035.00 417483	30.00 0.21851	631106.00 4174825.0	0.24124	
631937.00 417452	28.00 0.33851	631322.00 4174522.0	0.14509	
629800.63 417385	50.44 0.02024	630150.63 4173850.4	14 0.02530	
630500.63 417385	50.44 0.03518	630850.63 4173850.4	14 0.05325	
631200.63 417385		631550.63 4173850.4		
631900.63 417385		632250.63 4173850.4		
632600.63 417385		632950.63 4173850.4		
633300.63 417385		629800.63 4174200.4		
630150.63 417420		630500.63 4174200.4		
630850.63 417420		631200.63 4174200.4		
631550.63 417420		631900.63 4174200.4		
632250.63 417420		632600.63 4174200.4		
632950.63 417420		633300.63 4174200.4		
629800.63 417455		630150.63 4174550.4		
630500.63 417455		630850.63 4174550.4		
631200.63 417455		631550.63 4174550.4		
631900.63 417455		632250.63 4174550.4		
632600.63 417455		632950.63 4174550.4		
633300.63 417455		629800.63 4174900.4		
630150.63 417490		630500.63 4174900.4		
630850.63 417490		631200.63 4174900.4		
631550.63 417490		631900.63 4174900.4		
632250.63 417490		632600.63 4174900.4		
632950.63 417490		633300.63 4174900.4		
629800.63 417525		630150.63 4175250.4		
630500.63 417525		630850.63 4175250.4		
631200.63 417525		631550.63 4175250.4		
631900.63 417525		632250.63 4175250.4		
632600.63 417525		632950.63 4175250.4		
633300.63 417525		629800.63 4175600.4		
630150.63 417560		630500.63 4175600.4		
630850.63 417560		631200.63 4175600.4		
631550.63 417560	00.44 3.17746	631900.63 4175600.4	14 6.01940	

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632250.63 4175600.44 3.40157 632600.63 4175600.44 1.59742 632950.63 4175600.44 0.94013 633300.63 4175600.44 0.65894 629800.63 4175950.44 0.10160 630150.63 4175950.44 0.15498 *** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-
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*** AERMET - VERSION 18081 *** ***

*** 15:02:10

**PAGE 146** 

*** MODELOPTs: CONC ELEV RURAL ADJ U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:

STCK9 ***

INCLUDING SOURCE(S): STCK9

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

X-COORD (M) Y	C-COORD (M)	CONC X-	COORD (M)	Y-COORD (M)	CONC
630500.63 41759	950.44 0.28497	630850.63	3 4175950.4	4 0.64185	
631200.63 41759	950.44 1.85528		3 4175950.4	4 1.07914	
631900.63 41759	950.44 1.08522	632250.63	3 4175950.4	4 0.88366	
632600.63 41759	950.44 0.80443	632950.63	3 4175950.4	4 0.63025	
633300.63 41759	950.44 0.48849		3 4176300.4	4 0.12500	
630150.63 41763	300.44 0.19719	630500.63	3 4176300.4	4 0.35847	
630850.63 41763	300.44 0.66388	631200.63	3 4176300.4	4 0.75603	
631550.63 41763	300.44 0.62068	631900.63	3 4176300.4	4 0.54873	
632250.63 41763	300.44 0.52751	632600.63	3 4176300.4	4 0.42833	
632950.63 41763	300.44 0.37726	633300.63	3 4176300.4	4 0.32487	
629800.63 4176	650.44 0.13933	630150.63	3 4176650.4	4 0.21772	
630500.63 4176	650.44 0.33744	630850.63	3 4176650.4	4 0.44228	
631200.63 4176	650.44 0.49362	631550.63	3 4176650.4	4 0.42184	
631900.63 4176	650.44 0.37379	632250.63	3 4176650.4	4 0.36841	
632600.63 4176	650.44 0.32278	632950.63	3 4176650.4	4 0.25449	
633300.63 4176	650.44 0.22116	629800.63	3 4177000.4	4 0.14250	
630150.63 4177	000.44 0.19572	630500.63	3 4177000.4	4 0.25990	
630850.63 4177	000.44 0.29783	631200.63	3 4177000.4	4 0.34716	
	000.44 0.30591	631900.63			
	000.44 0.24935			4 0.24905	
	000.44 0.20973				
	350.44 0.13051	630150.63			
	350.44 0.18909				
	350.44 0.24145				
	350.44 0.21192				
	350.44 0.18428				
	350.44 0.14566				
	641.41 3.03882				
	826.85 1.86758				
	484.63 4.55598				
	523.99 2.83157				
	441.30 2.41048				
	414.95 7.49232				
	395.87 4.07834				
	235.96 2.93081				
	003.36 1.54557				
631849.92 41759	988.28 1.04503	631268.74	4 4175963.7	5 2.51182	

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631269.05 4175943.76 2.39219 631269.37 4175923.77 2.45525 631269.68 4175903.78 2.55719 631270.00 4175883.79 2.73401 631270.32 4175863.81 2.91824 631270.63 4175843.82 3.08729 *** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-
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*** AERMET - VERSION 18081 *** ***

*** 15:02:10

**PAGE 147** 

*** MODELOPTs: CONC ELEV RURAL ADJ U*

*** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:

STCK9 ***

INCLUDING SOURCE(S): STCK9

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

X-COORD (M) Y-COORD	(M) CONC	X-COORD (M)	Y-COORD (M)	CONC
631270.95 4175823.83	3.25878	631271.26 4175803.8	3.42698	
631271.58 4175783.85	3.61419	631271.90 4175763.8		
631272.21 4175743.87	4.09941	631272.53 4175723.8	38 4.26300	
631272.85 4175703.89	4.18004	631273.16 4175683.9		
631273.48 4175663.91	2.85832	631273.79 4175643.9	2.45194	
631274.11 4175623.94	2.54160	631274.43 4175603.9	2.60102	
631274.74 4175583.96	2.56896	631275.06 4175563.9	2.53967	
631275.37 4175543.98	2.63902	631285.68 4175509.0	2.99043	
631295.68 4175494.14	3.26665	631305.67 4175479.2	21 3.53996	
631315.67 4175464.28	3.38511	631325.66 4175449.3	35 2.86940	
631335.66 4175434.43	3.41854	631358.67 4175426.7	77 3.15796	
631371.70 4175434.03	2.50512	631402.59 4175441.4	2.96404	
631420.46 4175441.60	3.57700	631438.33 4175441.7	4.55851	
631456.19 4175441.91	7.07324	631474.06 4175442.0	06 7.97460	
631491.93 4175428.58	9.06021	631474.21 4175414.6		
631456.50 4175414.35	6.72833	631438.78 4175414.0		
631421.06 4175413.74	5.90766	631403.35 4175413.4		
631372.00 4175404.51	3.79149	631371.09 4175381.1		
631383.81 4175366.34	3.96533	631396.53 4175351.5		
631425.06 4175326.73	3.58628	631440.87 4175316.6		
631456.68 4175306.56	3.04661	631472.49 4175296.4		
631488.30 4175286.39	3.12753	631504.11 4175276.3		
631519.92 4175266.22	2.86904	631535.73 4175256.1		
631551.54 4175246.05	2.91575	631579.95 4175222.1		
631592.55 4175208.34	2.82760	631605.15 4175194.5		
631617.74 4175180.72	2.62726	631630.34 4175166.9		
631642.94 4175153.10	2.43602	631655.54 4175139.2		
631668.14 4175125.47	2.24355	631680.74 4175111.6		
631693.34 4175097.85	2.05420	631705.94 4175084.0		
631718.53 4175070.23	1.87597	631731.13 4175056.4		
631743.73 4175042.61	1.71104	631773.29 4175020.3		
631790.26 4175011.84	1.57881	631822.21 4174999.5		
631837.20 4174995.64	1.53343	631852.19 4174991.7		
631866.84 4175007.53	1.63440	631866.50 4175027.1		
631866.16 4175046.76	1.93634	631865.83 4175066.3		
631865.49 4175085.99	2.29367	631865.15 4175105.6		
631864.81 4175125.22	2.69985	631864.47 4175144.8	33 2.92268	

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631864.13 4175164.45 3.15715 631863.80 4175184.06 3.40699 631863.46 4175203.68 3.67487 631863.12 4175223.29 3.96614 631862.78 4175242.91 4.29234 631862.44 4175262.52 4.67223 *** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-
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*** AERMET - VERSION 18081 *** ***

*** 15:02:10

**PAGE 148** 

*** MODELOPTs: CONC ELEV RURAL ADJ U*

*** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:

STCK9 ***

INCLUDING SOURCE(S): STCK9

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

X-COORD (M) Y-COORD	O(M) CONC	X-COORD (M) Y-C	COORD (M) CONC
631862.10 4175282.14	5.13909	631861.77 4175301.75	5.73826
631861.43 4175321.37	6.52768	631861.09 4175340.98	7.58657
631860.75 4175360.60	9.00517	631860.41 4175380.21	10.82900
631860.07 4175399.83	13.06952	631859.73 4175419.44	15.64258
631859.40 4175439.06	18.30290	631859.06 4175458.67	20.61306
631858.72 4175478.29	21.94104	631858.38 4175497.90	21.62306
631858.04 4175517.52	19.42206	631857.70 4175537.13	15.87878
631857.37 4175556.75	12.04145	631857.03 4175576.36	8.77830
631856.69 4175595.98	6.39431	631856.35 4175615.59	4.77961
631856.01 4175635.21	3.72020	631855.67 4175654.82	3.02932
631855.33 4175674.44	2.57421	631855.00 4175694.05	2.26351
631854.66 4175713.67	2.03849	631854.32 4175733.28	1.86891
631853.98 4175752.90	1.73512	631853.64 4175772.51	1.62587
631853.30 4175792.13	1.53461	631852.97 4175811.74	1.45685
631852.63 4175831.36	1.38876	631852.29 4175850.97	1.33432
631851.95 4175870.59	1.28154	631851.61 4175890.20	1.23406
631851.27 4175909.82	1.34383	631850.94 4175929.43	1.28881
631850.60 4175949.05	1.22220	631850.26 4175968.66	1.10798
631830.54 4175988.13	1.06380	631811.15 4175987.98	1.08325
631791.77 4175987.83	1.12945	631772.39 4175987.67	1.26577
631753.00 4175987.52	1.39510	631733.62 4175987.37	1.37968
631714.24 4175987.22	1.36211	631694.85 4175987.07	1.38190
631675.47 4175986.92	1.39917	631656.09 4175986.77	1.34725
631636.70 4175986.62	1.35041	631617.32 4175986.46	1.34632
631597.94 4175986.31	1.31362	631578.55 4175986.16	1.26890
631559.17 4175986.01	1.22237	631539.79 4175985.86	1.22857
631520.40 4175985.71	1.24458	631501.02 4175985.56	1.30185
631481.64 4175985.40	1.40296	631462.25 4175985.25	1.53943
631442.87 4175985.10	1.70323	631423.49 4175984.95	1.90011
631404.10 4175984.80	2.01034	631384.72 4175984.65	2.07609
631365.34 4175984.50	2.18407	631345.95 4175984.35	2.21844
631326.57 4175984.19	2.30587	631307.19 4175984.04	2.29114
631287.80 4175983.89	2.26364	631050.63 4175100.50	0.39207
631050.63 4175200.50	0.49310	631050.63 4175300.50	0.61578
631050.63 4175400.50	0.76484	631050.63 4175500.50	0.87102
631050.63 4175600.50	0.89637	631050.63 4175700.50	0.94527
631050.63 4175800.50	1.07550	631050.63 4175900.50	1.24229

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631050.63 4176000.50 1.21772 631050.63 4176100.50 1.06622 631150.63 4175100.50 0.48425 631150.63 4175200.50 0.63922 631150.63 4175300.50 0.85516 631150.63 4175400.50 1.11552
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*** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-

977GSBU)\Documents\HRA\Tracy C *** 12/13/23

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*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:

STCK9 ***

INCLUDING SOURCE(S): STCK9

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

X-COORD (M) Y-COORD (	M) CONC	X-CC	OORD (M)	Y-COORD (M)	CONC
631150.63 4175500.50	1.42787	631150.63	4175600.50	1.38725	
631150.63 4175700.50	1.49303	631150.63	4175800.50	2.60874	
631150.63 4175900.50	1.88687	631150.63	4176000.50	1.47445	
	1.14663	631250.63	4175100.50	0.61549	
	0.85660	631250.63	4175300.50	1.22836	
	1.88421	631250.63	4175500.50	2.53898	
	2.17327	631250.63	4175700.50	3.25028	
	3.27925	631250.63	4175900.50	2.64968	
	1.61552	631250.63	4176100.50		
	0.77485	631350.63	4175200.50		
	2.13219	631350.63	4175400.50		
	3.12521	631350.63	4175600.50		
	5.37153	631350.63	4175800.50		
	1.89622	631350.63	4176000.50		
	1.19023	631450.63	4175100.50		
	1.49969	631450.63	4175300.50		
	6.00740	631450.63	4175500.50		
	11.85646	631450.63	4175700.50		
	1.60076	631450.63	4175900.50		
	1.55680	631450.63	4176100.50		
	1.25855	631550.63	4175200.50		
	3.66330	631550.63	4175400.50		
	66.10940	631550.63	4175600.50		
	1.79277	631550.63	4175800.50		
	0.74601	631550.63	4176000.50		
	0.87529	631650.63	4175100.50		
	3.42990	631650.63	4175300.50		
	17.72986	631650.63	4175500.50		
	5.24214	631650.63	4175700.50		
	1.41406	631650.63	4175900.50		
	1.38913	631650.63	4176100.50		
	2.32352	631750.63	4175200.50		
	7.03156	631750.63	4175400.50		
	38.97584	631750.63	4175600.50		
	2.44387	631750.63	4175800.50		
	1.11607	631750.63	4176000.50		
631750.63 4176100.50	0.81190	631850.63	4175100.50	2.45968	

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631850.63 4175200.50
                           3.70125
                                             631850.63 4175300.50
                                                                    5.77388
    631850.63 4175400.50
                           13.44074
                                             631850.63 4175500.50
                                                                    22.27699
    631850.63 4175600.50
                           5.94090
                                             631850.63 4175700.50
                                                                    2.18639
  *** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-
977GSBU)\Documents\HRA\Tracv C ***
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*** AERMET - VERSION 18081 *** ***
                                                                             15:02:10
                                                          PAGE 150
*** MODELOPTs: CONC ELEV RURAL ADJ U*
              *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:
STCK9
       ***
                INCLUDING SOURCE(S):
                                         STCK9
                      *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                   ** CONC OF OTHER IN MICROGRAMS/M**3
                                 CONC
                                                  X-COORD (M) Y-COORD (M)
   X-COORD (M) Y-COORD (M)
                                                                                 CONC
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                                             631850.63 4175900.50
    631850.63 4175800.50
                                                                    1.27941
                           1.00983
    631850.63
              4176000.50
                                             631850.63
                                                       4176100.50
                                                                    0.78869
    631950.63 4175100.50
                           2.24547
                                             631950.63
                                                       4175200.50
                                                                    3.17568
    631950.63
              4175300.50
                           5.17282
                                             631950.63
                                                       4175400.50
                                                                    10.37834
    631950.63
             4175500.50
                           14.01776
                                             631950.63
                                                       4175600.50
                                                                     5.88603
                                             631950.63
    631950.63
              4175700.50
                           2.23275
                                                       4175800.50
                                                                    1.39870
                                             631950.63
    631950.63
             4175900.50
                           1.12896
                                                       4176000.50
                                                                    0.92733
    631950.63
              4176100.50
                           0.76713
                                             632050.63
                                                       4175100.50
                                                                    1.99925
    632050.63 4175200.50
                           2.81541
                                             632050.63
                                                       4175300.50
                                                                    4.54900
    632050.63 4175400.50
                           7.70600
                                             632050.63
                                                       4175500.50
                                                                    9.32584
                                                                    2.35285
    632050.63 4175600.50
                           5.17604
                                             632050.63
                                                       4175700.50
    632050.63
              4175800.50
                            1.40549
                                             632050.63
                                                       4175900.50
                                                                    1.03238
    632050.63 4176000.50
                                             632050.63 4176100.50
                                                                    0.72985
                           0.85745
  *** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-
977GSBU)\Documents\HRA\Tracy C ***
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*** AERMET - VERSION 18081 *** ***
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                                                          PAGE 151
*** MODELOPTs: CONC ELEV RURAL ADJ U*
              *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:
SLINE6 ***
                INCLUDING SOURCE(S): L0002348 , L0002349 , L0002350 , L0002351 , L0002352
                                                                                    , L0002360
        L0002353 ,L0002354 ,L0002355 ,L0002356 ,L0002357 ,L0002358 ,L0002359
        L0002361 ,L0002362 ,L0002363 ,L0002364 ,L0002365 ,L0002366 ,L0002367 ,L0002368
                 , L0002370 , L0002371 , L0002372 , L0002373 , L0002374
        L0002369
                                                                         , L0002375
                      *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                   ** CONC OF OTHER IN MICROGRAMS/M**3
   X-COORD (M) Y-COORD (M)
                                 CONC
                                                  X-COORD (M) Y-COORD (M)
                                                                                 CONC
                           1.29634
                                             632304.44 4174354.52
    632121.21 4174952.36
                                                                    0.25506
    632192.15 4174956.32
                           1.25056
                                             632420.62 4175510.15
                                                                    2.24258
    632418.97 4175552.92
                           2.23466
                                             631187.00 4175727.00
                                                                    1.49426
    631166.00 4175729.00
                           1.36986
                                             631121.00
                                                       4175719.00
                                                                    1.14202
    631035.00 4174830.00
                           0.19580
                                             631106.00
                                                       4174825.00
                                                                    0.21462
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               4174528.00
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                                                 631322.00
                                                            4174522.00
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                              0.02040
                                                 630150.63
                                                            4173850.44
                                                                           0.02190
    630500.63
               4173850.44
                              0.02735
                                                 630850.63
                                                            4173850.44
                                                                           0.04422
    631200.63
               4173850.44
                              0.04087
                                                 631550.63
                                                            4173850.44
                                                                           0.05725
                                                 632250.63
                                                            4173850.44
    631900.63
               4173850.44
                              0.06583
                                                                           0.09884
    632600.63
               4173850.44
                              0.12445
                                                 632950.63
                                                            4173850.44
                                                                           0.13856
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               4173850.44
                              0.13471
                                                 629800.63
                                                            4174200.44
                                                                           0.02859
    630150.63
               4174200.44
                              0.03549
                                                 630500.63
                                                            4174200.44
                                                                           0.05051
    630850.63
               4174200.44
                              0.06026
                                                 631200.63
                                                            4174200.44
                                                                           0.06614
    631550.63
               4174200.44
                              0.09854
                                                 631900.63
                                                            4174200.44
                                                                           0.14164
               4174200.44
                                                            4174200.44
    632250.63
                              0.18249
                                                 632600.63
                                                                           0.20901
    632950.63
               4174200.44
                              0.20261
                                                 633300.63
                                                            4174200.44
                                                                           0.18670
    629800.63
               4174550.44
                              0.04793
                                                 630150.63
                                                            4174550.44
                                                                           0.05733
    630500.63
               4174550.44
                              0.07844
                                                 630850.63
                                                            4174550.44
                                                                           0.10203
    631200.63
               4174550.44
                              0.14306
                                                 631550.63
                                                            4174550.44
                                                                           0.17960
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               4174550.44
                              0.31295
                                                 632250.63
                                                            4174550.44
                                                                           0.38557
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                              0.36350
                                                 632950.63
                                                            4174550.44
                                                                           0.32414
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                                                            4174900.44
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               4174900.44
                              0.07196
                                                 630500.63
                                                            4174900.44
                                                                           0.11396
               4174900.44
                                                 631200.63
                                                            4174900.44
                                                                           0.29508
    630850.63
                              0.17337
               4174900.44
                              0.59432
                                                 631900.63
                                                            4174900.44
                                                                           1.07989
    631550.63
    632250.63
               4174900.44
                              0.98500
                                                 632600.63
                                                            4174900.44
                                                                           0.74427
    632950.63
               4174900.44
                              0.57800
                                                 633300.63
                                                            4174900.44
                                                                           0.46062
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               4175250.44
                              0.06616
                                                 630150.63
                                                            4175250.44
                                                                           0.09881
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               4175250.44
                              0.15883
                                                 630850.63
                                                            4175250.44
                                                                           0.27559
               4175250.44
                                                            4175250.44
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                              0.78621
                                                 631550.63
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               4175250.44
                              17.24381
                                                 632250.63
                                                            4175250.44
                                                                           2.84595
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               4175250.44
                              1.44235
                                                 632950.63
                                                            4175250.44
                                                                           0.92330
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               4175250.44
                              0.65660
                                                 629800.63
                                                                           0.08074
               4175600.44
    630150.63
                              0.11574
                                                 630500.63
                                                            4175600.44
                                                                           0.18730
    630850.63
               4175600.44
                              0.38033
                                                 631200.63
                                                            4175600.44
                                                                           1.45332
    631550.63
               4175600.44
                              12.47842
                                                 631900.63
                                                            4175600.44
                                                                           16.45884
    632250.63
               4175600.44
                              3.17203
                                                 632600.63
                                                            4175600.44
                                                                           1.61410
                                                 633300.63
                                                            4175600.44
    632950.63
               4175600.44
                              1.00994
                                                                           0.70579
    629800.63
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                                                 630150.63
                                                            4175950.44
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  *** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-
977GSBU)\Documents\HRA\Tracy C ***
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*** AERMET - VERSION 18081 *** ***
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                                                               PAGE 152
*** MODELOPTs: CONC ELEV RURAL ADJ U*
                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:
        ***
SLINE6
                  INCLUDING SOURCE(S):
                                           L0002348
                                                       , L0002349
                                                                   , L0002350
                                                                               , L0002351
                                                                                            , L0002352
                   , L0002354
         L0002353
                               , L0002355
                                           , L0002356
                                                       , L0002357
                                                                   , L0002358
                                                                               , L0002359
                                                                                           , L0002360
         L0002361
                   , L0002362 , L0002363
                                           , L0002364
                                                       , L0002365
                                                                    , L0002366
                                                                                , L0002367
                                                                                            , L0002368
                   , L0002370 , L0002371
         L0002369
                                           , L0002372
                                                       , L0002373
                                                                   , L0002374
                                                                               , L0002375
                        *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                                                                                **
                     ** CONC OF OTHER IN MICROGRAMS/M**3
                                                                                        CONC
   X-COORD (M) Y-COORD (M)
                                    CONC
                                                       X-COORD (M) Y-COORD (M)
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                                                 630850.63
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4175950.44

9.35140

631200.63

4175950.44

1.48970

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                                                  632950.63
                                                             4175950.44
                                                                            0.77636
                                                  629800.63
    633300.63
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                               0.56620
                                                             4176300.44
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                4176300.44
                               0.15741
                                                  630500.63
                                                             4176300.44
                                                                            0.26591
                4176300.44
                               0.48365
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                                                                            0.89599
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                                                             4176300.44
    631550.63
                4176300.44
                               1.24158
                                                  631900.63
                                                             4176300.44
                                                                            1.13997
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                                                  632600.63
                                                             4176300.44
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                                                  633300.63
                                                             4176300.44
                                                                            0.37692
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                                                             4176650.44
                                                                            0.30289
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                                                                            0.11998
    630150.63
                4177000.44
                               0.16288
                                                  630500.63
                                                             4177000.44
                                                                            0.21777
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                4177000.44
                               0.27851
                                                  631200.63
                                                             4177000.44
                                                                            0.33020
                                                  631900.63
    631550.63
                4177000.44
                               0.35415
                                                             4177000.44
                                                                            0.33046
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                4177000.44
                               0.29407
                                                  632600.63
                                                             4177000.44
                                                                            0.25759
    632950.63
                4177000.44
                               0.22224
                                                  633300.63
                                                             4177000.44
                                                                            0.18932
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                                                  630150.63
                                                             4177350.44
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                                                  630850.63
                                                             4177350.44
                                                                            0.20786
                4177350.44
                               0.23040
                                                             4177350.44
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                                                  631550.63
    631900.63
                4177350.44
                               0.22952
                                                  632250.63
                                                             4177350.44
                                                                            0.20877
    632600.63
                4177350.44
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                                                  632950.63
                                                             4177350.44
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                               7.19346
                                                  631665.32
                                                             4175796.39
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                                                  631417.17
                                                             4175673.66
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                4175484.63
                               8.96334
                                                  631268.42
                                                             4175983.74
                                                                            1.92825
    631275.69
                4175523.99
                               2.08701
                                                  631345.65
                                                             4175419.50
                                                                            3.08211
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                               4.96629
                                                  631491.93
                                                             4175442.21
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                                                                            4.86000
                                                             4175336.81
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                                                  631756.33
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                              13.34340
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                4175003.36
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    631849.92
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                                                             4175883.79
    631269.68
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  *** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-
977GSBU)\Documents\HRA\Tracy C ***
                                         12/13/23
*** AERMET - VERSION 18081 *** ***
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                                                                 PAGE 153
*** MODELOPTs: CONC ELEV RURAL ADJ U*
                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:
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SLINE6
                  INCLUDING SOURCE(S):
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                        *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                      ** CONC OF OTHER IN MICROGRAMS/M**3
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X-COORD (M) Y-COORD (M)

**CONC** 

**CONC** 

X-COORD (M) Y-COORD (M)

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977GSBU)\Documents\HRA\Tracy C ***
                                         12/13/23
*** AERMET - VERSION 18081 *** ***
                                                                              ***
                                                                                     15:02:10
                                                                PAGE 154
*** MODELOPTs: CONC ELEV RURAL ADJ U*
                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:
SLINE6 ***
                  INCLUDING SOURCE(S):
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*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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977GSBU)\Documents\HRA\Tracy C ***
                                         12/13/23
*** AERMET - VERSION 18081 *** ***
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                                                                                     15:02:10
                                                                PAGE 155
*** MODELOPTs: CONC ELEV RURAL ADJ U*
                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:
SLINE6
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## *** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3

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977GSBU)\Documents\HRA\Tracy C ***
                                          12/13/23
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*** AERMET - VERSION 18081 *** ***
                                                                                      15:02:10
                                                                 PAGE 156
*** MODELOPTs: CONC ELEV RURAL ADJ U*
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SLINE6 ***
INCLUDING SOURCE(S): L0002348 , L0002349 , L0002350 , L0002351 , L0002352

*** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:

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                       *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                    ** CONC OF OTHER IN MICROGRAMS/M**3
                                                    X-COORD (M) Y-COORD (M)
   X-COORD (M) Y-COORD (M)
                                   CONC
                                                                                    CONC
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977GSBU)\Documents\HRA\Tracy C ***
                                       12/13/23
*** AERMET - VERSION 18081 *** ***
                                                                                15:02:10
                                                             PAGE 157
*** MODELOPTs: CONC ELEV RURAL ADJ U*
               *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:
SLINE2 ***
                 INCLUDING SOURCE(S):
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                       *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                    ** CONC OF OTHER IN MICROGRAMS/M**3
   X-COORD (M) Y-COORD (M)
                                                               X-COORD (M) Y-COORD (M)
                                  CONC
                                          (YYMMDDHH)
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                           19.47774 (05011520)
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  *** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-
977GSBU)\Documents\HRA\Tracy C ***
                                        12/13/23
                                                                           ***
*** AERMET - VERSION 18081 *** ***
                                                                                   15:02:10
                                                              PAGE 158
*** MODELOPTs: CONC ELEV RURAL ADJ U*
                *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:
SLINE2
                 INCLUDING SOURCE(S):
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                                                                               , L0003977
                       *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                     ** CONC OF OTHER IN MICROGRAMS/M**3
                                                                               **
                                                                 X-COORD (M) Y-COORD (M)
   X-COORD (M) Y-COORD (M)
                                   CONC
                                           (YYMMDDHH)
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52.02292 (06020208)

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  *** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-
977GSBU)\Documents\HRA\Tracy C ***
                                       12/13/23
*** AERMET - VERSION 18081 *** ***
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                                                                                  15:02:10
                                                              PAGE 159
*** MODELOPTs: CONC ELEV RURAL ADJ U*
               *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:
SLINE2 ***
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                       *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                                                                              **
                     ** CONC OF OTHER IN MICROGRAMS/M**3
   X-COORD (M) Y-COORD (M)
                                   CONC
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                                                                 X-COORD (M) Y-COORD (M)
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    631488.30 4175286.39
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    631592.55 4175208.34
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    631693.34 4175097.85
                            32.87659 (04122822)
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                            31.40532 (04122822)
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    631837.20 4174995.64
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  *** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-
977GSBU)\Documents\HRA\Tracy C ***
                                        12/13/23
*** AERMET - VERSION 18081 *** ***
                                                                           ***
                                                                                   15:02:10
                                                              PAGE 160
*** MODELOPTs: CONC ELEV RURAL ADJ U*
               *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:
       ***
SLINE2
                                                                              , L0003953
                 INCLUDING SOURCE(S):
                                            L0003950
                                                      , L0003951
                                                                  , L0003952
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        L0003955
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                                                                   , L0003976
        L0003971
                   , L0003972
                              . L0003973
                                           . L0003974
                                                       , L0003975
                                                                              , L0003977
                       *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                     ** CONC OF OTHER IN MICROGRAMS/M**3
   X-COORD (M) Y-COORD (M)
                                   CONC
                                           (YYMMDDHH)
                                                                 X-COORD (M) Y-COORD (M)
                                                                                                 CONC
(YYMMDDHH)
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    631862.10 4175282.14
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                            47.93710 (06011617)
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                                                                                 50.44511 (06011617)
                            51.92185 (06120617)
    631857.37 4175556.75
                                                        631857.03 4175576.36
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                                                                                 56.76562 (06120617)
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  *** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-
977GSBU)\Documents\HRA\Tracy C ***
                                        12/13/23
                                                                            ***
*** AERMET - VERSION 18081 *** ***
                                                                                    15:02:10
                                                               PAGE 161
*** MODELOPTs: CONC ELEV RURAL ADJ U*
                *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:
SLINE2 ***
                                                       , L0003951
                  INCLUDING SOURCE(S):
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                               L0003973
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*** DISCRETE CARTESIAN RECEPTOR POINTS ***

(YYMMDDHH)

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  *** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-
977GSBU)\Documents\HRA\Tracy C ***
                                        12/13/23
*** AERMET - VERSION 18081 *** ***
                                                                             ***
                                                                                    15:02:10
                                                               PAGE 162
*** MODELOPTs: CONC ELEV RURAL ADJ U*
                *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:
SLINE2
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                  INCLUDING SOURCE(S):
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## *** DISCRETE CARTESIAN RECEPTOR POINTS ***

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X-COORD (M) Y-COORD (M)
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                                          (YYMMDDHH)
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(YYMMDDHH)
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*** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-
977GSBU)\Documents\HRA\Tracy C ***
                                       12/13/23
*** AERMET - VERSION 18081 *** ***
                                                                                 15:02:10
                                                             PAGE 163
*** MODELOPTS: CONC ELEV RURAL ADJ U*
               *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:
SLINE5 ***
                                          L0004262
                 INCLUDING SOURCE(S):
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                       *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                    ** CONC OF OTHER IN MICROGRAMS/M**3
                                                                             **
   X-COORD (M) Y-COORD (M)
                                  CONC
                                          (YYMMDDHH)
                                                                X-COORD (M) Y-COORD (M)
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(YYMMDDHH)
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                            15.36584 (04022018)
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                                                                              17.26719 (04022018)
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977GSBU)\Documents\HRA\Tracy C ***
                                        12/13/23
                                                                           ***
*** AERMET - VERSION 18081 *** ***
                                                                                   15:02:10
                                                              PAGE 164
*** MODELOPTs: CONC ELEV RURAL ADJ U*
               *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:
SLINE5 ***
                 INCLUDING SOURCE(S):
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                        *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                     ** CONC OF OTHER IN MICROGRAMS/M**3
                                                                               **
                                                                 X-COORD (M) Y-COORD (M)
   X-COORD (M) Y-COORD (M)
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                                           (YYMMDDHH)
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  *** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-
977GSBU)\Documents\HRA\Tracy C ***
                                       12/13/23
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*** AERMET - VERSION 18081 *** ***
                                                                                  15:02:10
                                                              PAGE 165
*** MODELOPTS: CONC ELEV RURAL ADJ U*
               *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:
SLINE5 ***
                 INCLUDING SOURCE(S):
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                       *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                     ** CONC OF OTHER IN MICROGRAMS/M**3
   X-COORD (M) Y-COORD (M)
                                                                 X-COORD (M) Y-COORD (M)
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  *** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-
977GSBU)\Documents\HRA\Tracy C ***
                                        12/13/23
*** AERMET - VERSION 18081 *** ***
                                                                                   15:02:10
                                                              PAGE 166
*** MODELOPTs: CONC ELEV RURAL ADJ U*
               *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:
SLINE5 ***
                                            L0004262
                 INCLUDING SOURCE(S):
                                                       , L0004263
                                                                  , L0004264
                                                                              , L0004265
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                                                                              , L0004289
                       *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                     ** CONC OF OTHER IN MICROGRAMS/M**3
                                                                 X-COORD (M) Y-COORD (M)
   X-COORD (M) Y-COORD (M)
                                   CONC
                                           (YYMMDDHH)
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(YYMMDDHH)
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    631858.04 4175517.52
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    631856.69 4175595.98
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  *** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-
977GSBU)\Documents\HRA\Tracy C ***
                                        12/13/23
*** AERMET - VERSION 18081 *** ***
                                                                                  15:02:10
                                                              PAGE 167
*** MODELOPTs: CONC ELEV RURAL ADJ U*
               *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:
SLINE5
        ***
                 INCLUDING SOURCE(S):
                                            L0004262
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                       *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                     ** CONC OF OTHER IN MICROGRAMS/M**3
   X-COORD (M) Y-COORD (M)
                                                                 X-COORD (M) Y-COORD (M)
                                   CONC
                                           (YYMMDDHH)
                                                                                                 CONC
(YYMMDDHH)
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                            46.14126 (06011617)
  *** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-
977GSBU)\Documents\HRA\Tracy C ***
                                        12/13/23
*** AERMET - VERSION 18081 *** ***
                                                                            ***
                                                                                    15:02:10
                                                               PAGE 168
*** MODELOPTS: CONC ELEV RURAL ADJ U*
                *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:
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SLINE5
                  INCLUDING SOURCE(S):
                                            L0004262
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                                                                   , L0004264
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                        *** DISCRETE CARTESIAN RECEPTOR POINTS ***
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** CONC OF OTHER IN MICROGRAMS/M**3

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(YYMMDDHH)
   X-COORD (M) Y-COORD (M)
                                 CONC
                                                              X-COORD (M) Y-COORD (M)
                                                                                              CONC
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*** AERMET - VERSION 18081 *** ***
                                                                               15:02:10
                                                            PAGE 169
*** MODELOPTs: CONC ELEV RURAL ADJ U*
               *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:
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STCK1
                 INCLUDING SOURCE(S):
                                          STCK1
                       *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                    ** CONC OF OTHER IN MICROGRAMS/M**3
   X-COORD (M) Y-COORD (M)
                                                               X-COORD (M) Y-COORD (M)
                                 CONC
                                         (YYMMDDHH)
                                                                                              CONC
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977GSBU)\Documents\HRA\Tracy C ***
                                        12/13/23
*** AERMET - VERSION 18081 *** ***
                                                                            ***
                                                                                   15:02:10
                                                               PAGE 170
*** MODELOPTs: CONC ELEV RURAL ADJ U*
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*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:

STCK1

INCLUDING SOURCE(S): STCK1

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3

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                                      12/13/23
*** AERMET - VERSION 18081 *** ***
                                                                               15:02:10
                                                            PAGE 171
*** MODELOPTs: CONC ELEV RURAL ADJ U*
               *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:
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STCK1
                                          STCK1
                 INCLUDING SOURCE(S):
                      *** DISCRETE CARTESIAN RECEPTOR POINTS ***
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** CONC OF OTHER IN MICROGRAMS/M**3

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X-COORD (M) Y-COORD (M)
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  *** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-
977GSBU)\Documents\HRA\Tracy C ***
                                       12/13/23
*** AERMET - VERSION 18081 *** ***
                                                                                  15:02:10
                                                              PAGE 172
*** MODELOPTs: CONC ELEV RURAL ADJ U*
               *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:
        ***
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                                           STCK1
                 INCLUDING SOURCE(S):
                       *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                     ** CONC OF OTHER IN MICROGRAMS/M**3
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                                                       631462.25 4175985.25
                                                                               205.37512 (06033021)
                           203.38153 (06033021)
    631442.87 4175985.10
                                                       631423.49 4175984.95
                                                                               199.86978 (06033021)
    631404.10 4175984.80
                           194.98098 (06033021)
                                                       631384.72 4175984.65
                                                                               191.36418 (08081602)
                           186.86388 (08081602)
                                                                               181.65452 (05072902)
    631365.34 4175984.50
                                                       631345.95 4175984.35
    631326.57 4175984.19
                           176.61969 (05072902)
                                                       631307.19 4175984.04
                                                                               170.90805 (05072902)
                           165.89099 (05111617)
                                                                               126.13077 (05111717)
    631287.80 4175983.89
                                                       631050.63 4175100.50
    631050.63 4175200.50
                           132.10354 (08081806)
                                                       631050.63 4175300.50
                                                                               143.84518 (05072102)
                           178.61421 (06020109)
                                                                               249.36797 (06020109)
    631050.63 4175400.50
                                                       631050.63 4175500.50
    631050.63 4175600.50
                           238.79663 (06020109)
                                                       631050.63 4175700.50
                                                                               179.11815 (07110902)
    631050.63 4175800.50
                           192.64763 (06072903)
                                                       631050.63 4175900.50
                                                                               169.79527 (05083119)
    631050.63 4176000.50
                           144.08806 (06121423)
                                                                               129.43215 (05072902)
                                                       631050.63 4176100.50
    631150.63 4175100.50
                           137.72726 (04012317)
                                                       631150.63 4175200.50
                                                                               141.20957 (05111717)
    631150.63 4175300.50
                           148.40696 (08081806)
                                                       631150.63 4175400.50
                                                                               161.34936 (05072102)
  *** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-
977GSBU)\Documents\HRA\Tracy C ***
                                       12/13/23
*** AERMET - VERSION 18081 *** ***
                                                                                  15:02:10
                                                              PAGE 173
*** MODELOPTs: CONC ELEV RURAL ADJ U*
               *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:
        ***
STCK1
                 INCLUDING SOURCE(S):
                                           STCK1
                       *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                     ** CONC OF OTHER IN MICROGRAMS/M**3
   X-COORD (M) Y-COORD (M)
                                  CONC
                                           (YYMMDDHH)
                                                                X-COORD (M) Y-COORD (M)
                                                                                                CONC
(YYMMDDHH)
                           258.13961 (06020109)
                                                                               284.96853 (06020109)
    631150.63 4175500.50
                                                       631150.63 4175600.50
    631150.63 4175700.50
                           198.55151 (06020109)
                                                       631150.63 4175800.50
                                                                               215.33230 (06072903)
    631150.63 4175900.50
                           170.86144 (05071702)
                                                       631150.63 4176000.50
                                                                               145.47520 (06121423)
    631150.63 4176100.50
                           138.22442 (06033021)
                                                                               131.90304 (08121017)
                                                       631250.63 4175100.50
                           159.68768 (04012317)
                                                                               164.95542 (05111717)
    631250.63 4175200.50
                                                       631250.63 4175300.50
                           176.36726 (08081806)
                                                                               241.67061 (06020109)
    631250.63 4175400.50
                                                       631250.63 4175500.50
    631250.63 4175600.50
                           318.31346 (06020109)
                                                       631250.63 4175700.50
                                                                               254.03713 (06020109)
                           242.75332 (06072903)
    631250.63 4175800.50
                                                       631250.63 4175900.50
                                                                               187.69129 (06041503)
    631250.63 4176000.50
                           156.55200 (05051724)
                                                       631250.63 4176100.50
                                                                               138.77731 (06033021)
                           144.65482 (06011109)
                                                                               155.85021 (08121017)
    631350.63 4175100.50
                                                       631350.63 4175200.50
    631350.63 4175300.50
                           193.51730 (04012317)
                                                       631350.63 4175400.50
                                                                               245.27891 (04012317)
    631350.63 4175500.50
                           317.83810 (05072102)
                                                       631350.63 4175600.50
                                                                               305.95481 (07110617)
    631350.63 4175700.50
                           378.82185 (04041821)
                                                       631350.63 4175800.50
                                                                               289.97990 (06072903)
    631350.63 4175900.50
                           214.37242 (06121423)
                                                       631350.63 4176000.50
                                                                               180.25000 (08081602)
    631350.63 4176100.50
                           152.52803 (04082001)
                                                       631450.63 4175100.50
                                                                               143.00304 (05030118)
    631450.63 4175200.50
                           167.71537 (04101605)
                                                       631450.63 4175300.50
                                                                               175.44499 (06041020)
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631450.63 4175500.50

631450.63 4175700.50

168.32965 (05111717)

213.84704 (06121422)

166.65056 (04012317)

169.94486 (06051905)

631450.63 4175400.50

631450.63 4175600.50

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631450.63 4175800.50
                           427.70673 (06072903)
                                                       631450.63 4175900.50
                                                                               300.21288 (06121423)
    631450.63 4176000.50
                           192.15430 (06033021)
                                                       631450.63 4176100.50
                                                                               159.75686 (07082502)
    631550.63 4175100.50
                           159.90117 (06102817)
                                                       631550.63 4175200.50
                                                                               179.34083 (06102817)
    631550.63 4175300.50
                           128.56905 (04101605)
                                                       631550.63 4175400.50
                                                                               140.44195 (08121017)
                           227.48572 (06062806)
                                                                               328.26973 (06052306)
    631550.63 4175500.50
                                                       631550.63 4175600.50
    631550.63 4175700.50
                           323.51800 (07121418)
                                                       631550.63 4175800.50
                                                                               275.89309 (06072903)
                           113.93688 (06121423)
                                                                               237.70841 (04082001)
    631550.63 4175900.50
                                                       631550.63 4176000.50
                           170.55932 (05112504)
                                                                               142.37981 (08081805)
    631550.63 4176100.50
                                                       631650.63 4175100.50
    631650.63 4175200.50
                           198.56506 (06102817)
                                                       631650.63 4175300.50
                                                                               114.20297 (06102817)
    631650.63 4175400.50
                           110.39255 (07102901)
                                                       631650.63 4175500.50
                                                                               260.45963 (06081406)
    631650.63 4175600.50
                           469.24986 (06062806)
                                                       631650.63 4175700.50
                                                                               612.85704 (04121018)
    631650.63 4175800.50
                           168.92567 (06072903)
                                                       631650.63 4175900.50
                                                                               68.51775 (06121423)
    631650.63 4176000.50
                           204.55055 (06110119)
                                                       631650.63 4176100.50
                                                                               185.80522 (06110119)
    631750.63 4175100.50
                           124.95188 (07030618)
                                                       631750.63 4175200.50
                                                                               173.00492 (05050803)
    631750.63 4175300.50
                            64.56867 (05050803)
                                                       631750.63 4175400.50
                                                                               73.40845 (06102817)
                           154.58413 (04020106)
    631750.63 4175500.50
                                                       631750.63 4175600.50
                                                                               303.64490 (04020106)
                                                                               583.09855 (07121418)
    631750.63 4175700.50
                           568.92789 (08062724)
                                                       631750.63 4175800.50
    631750.63 4175900.50
                           174.33902 (04020106)
                                                       631750.63 4176000.50
                                                                               266.76458 (07080306)
                                                                               132.64204 (05110722)
    631750.63 4176100.50
                           208.02249 (04111019)
                                                       631850.63 4175100.50
                           148.95171 (04102617)
                                                       631850.63 4175300.50
                                                                               166.45602 (05110722)
    631850.63 4175200.50
    631850.63 4175400.50
                           214.92591 (05110722)
                                                       631850.63 4175500.50
                                                                               304.93044 (04102623)
                           454.11929 (04102617)
    631850.63 4175600.50
                                                       631850.63 4175700.50
                                                                               564.11564 (08102618)
  *** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-
977GSBU)\Documents\HRA\Tracy C ***
                                       12/13/23
*** AERMET - VERSION 18081 *** ***
                                                                                  15:02:10
                                                              PAGE 174
*** MODELOPTs: CONC ELEV RURAL ADJ U*
               *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:
STCK1
                 INCLUDING SOURCE(S):
                                           STCK1
                       *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                     ** CONC OF OTHER IN MICROGRAMS/M**3
   X-COORD (M) Y-COORD (M)
                                  CONC
                                                                X-COORD (M) Y-COORD (M)
                                           (YYMMDDHH)
                                                                                                CONC
(YYMMDDHH)
    631850.63 4175800.50
                           564.51526 (07121418)
                                                       631850.63 4175900.50
                                                                               881.78505 (06062806)
    631850.63 4176000.50
                           417.07581 (06080603)
                                                       631850.63 4176100.50
                                                                               283.39654 (05072006)
    631950.63 4175100.50
                           121.10927 (04102617)
                                                       631950.63 4175200.50
                                                                               130.74342 (08102618)
                           173.26722 (05011817)
                                                                               172.12336 (08102618)
    631950.63 4175300.50
                                                       631950.63 4175400.50
    631950.63 4175500.50
                           249.18667 (08071406)
                                                       631950.63 4175600.50
                                                                               211.96922 (08071406)
    631950.63 4175700.50
                           339.29190 (06052002)
                                                       631950.63 4175800.50
                                                                               490.63042 (04030118)
    631950.63 4175900.50
                           568.14256 (07112517)
                                                                               503.49237 (06062806)
                                                       631950.63 4176000.50
    631950.63 4176100.50
                           358.39149 (08062724)
                                                       632050.63 4175100.50
                                                                               123.41658 (05011817)
                                                                               137.96728 (08071406)
    632050.63 4175200.50
                           133.90109 (08071406)
                                                       632050.63 4175300.50
                                                                               192.03302 (08031018)
    632050.63 4175400.50
                           185.55770 (08031018)
                                                       632050.63 4175500.50
    632050.63 4175600.50
                                                       632050.63 4175700.50
                                                                               256.39001 (04110905)
                           235.07687 (07102905)
    632050.63 4175800.50
                                                       632050.63 4175900.50
                           371.87299 (07102804)
                                                                               440.77399 (06111908)
    632050.63 4176000.50
                           385.50481 (06052306)
                                                                               349.57987 (06062806)
                                                       632050.63 4176100.50
  *** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-
977GSBU)\Documents\HRA\Tracy C ***
                                       12/13/23
*** AERMET - VERSION 18081 *** ***
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*** MODELOPTs: CONC ELEV RURAL ADJ U*
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*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:

STCK10 ***

INCLUDING SOURCE(S): STCK10 .

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3

```
CONC
                                                                 X-COORD (M) Y-COORD (M)
   X-COORD (M) Y-COORD (M)
                                           (YYMMDDHH)
                                                                                                  CONC
(YYMMDDHH)
                            120.20545 (07102905)
    632121.21 4174952.36
                                                        632304.44 4174354.52
                                                                                 73.96835 (08031018)
    632192.15 4174956.32
                            115.67453 (07102905)
                                                        632420.62 4175510.15
                                                                                 149.13262 (04082203)
                            150.73469 (07091005)
                                                                                 166.96947 (04110906)
    632418.97 4175552.92
                                                        631187.00 4175727.00
    631166.00 4175729.00
                            157.11101 (07082502)
                                                        631121.00 4175719.00
                                                                                 150.68751 (07080103)
    631035.00 4174830.00
                            222.61252 (04012317)
                                                        631106.00 4174825.00
                                                                                206.14576 (08121017)
    631937.00 4174528.00
                            92.95744 (08071406)
                                                        631322.00 4174522.00
                                                                                119.58361 (07100818)
    629800.63 4173850.44
                            17.99196 (06121421)
                                                        630150.63 4173850.44
                                                                                36.53588 (04012317)
                            72.59151 (06011109)
                                                                                63.12855 (06102817)
    630500.63 4173850.44
                                                        630850.63 4173850.44
    631200.63 4173850.44
                            51.89054 (08081805)
                                                        631550.63 4173850.44
                                                                                 51.74834 (07030618)
    631900.63 4173850.44
                            49.43083 (04102617)
                                                        632250.63 4173850.44
                                                                                 54.94271 (08071406)
    632600.63 4173850.44
                            53.89424 (08031018)
                                                                                48.72389 (05011317)
                                                        632950.63 4173850.44
    633300.63 4173850.44
                            39.69442 (05011417)
                                                        629800.63 4174200.44
                                                                                 25.03918 (07020624)
    630150.63 4174200.44
                            52.19488 (06121421)
                                                        630500.63 4174200.44
                                                                                 95.71853 (04012317)
                            107.34856 (06011109)
    630850.63 4174200.44
                                                        631200.63 4174200.44
                                                                                 82.55924 (07100818)
    631550.63 4174200.44
                            75.32580 (05110722)
                                                        631900.63 4174200.44
                                                                                 71.66043 (05011817)
                            67.94876 (08031018)
                                                                                 63.58491 (05011317)
    632250.63 4174200.44
                                                        632600.63 4174200.44
                            53.79485 (05011417)
                                                                                45.06805 (06011617)
    632950.63 4174200.44
                                                        633300.63 4174200.44
                            48.56287 (07111023)
                                                                                79.78515 (04011017)
    629800.63 4174550.44
                                                        630150.63 4174550.44
    630500.63 4174550.44
                            98.92061 (06121421)
                                                        630850.63 4174550.44
                                                                                129.68141 (08121017)
    631200.63 4174550.44
                            179.26153 (06102817)
                                                        631550.63 4174550.44
                                                                                 105.76201 (05110722)
    631900.63 4174550.44
                            99.86304 (08071406)
                                                        632250.63 4174550.44
                                                                                 83.16420 (08090905)
                            76.87845 (05110817)
                                                        632950.63 4174550.44
                                                                                61.11908 (05020802)
    632600.63 4174550.44
    633300.63 4174550.44
                            53.58599 (04022223)
                                                        629800.63 4174900.44
                                                                                60.22546 (04022207)
    630150.63 4174900.44
                            69.03339 (07110617)
                                                        630500.63 4174900.44
                                                                                120.03183 (04041822)
                            181.24820 (08081806)
                                                                                273.22900 (06011109)
    630850.63 4174900.44
                                                        631200.63 4174900.44
                                                                                 124.03475 (06052001)
                            157.10746 (05110722)
    631550.63 4174900.44
                                                        631900.63 4174900.44
    632250.63 4174900.44
                            109.11306 (07102905)
                                                        632600.63 4174900.44
                                                                                 86.72431 (06052002)
    632950.63 4174900.44
                            71.03212 (07010217)
                                                        633300.63 4174900.44
                                                                                 57.59180 (07020218)
    629800.63 4175250.44
                            56.81500 (06032819)
                                                        630150.63 4175250.44
                                                                                 81.50442 (06032819)
    630500.63 4175250.44
                            119.50144 (06051906)
                                                        630850.63 4175250.44
                                                                                 181.15577 (04041821)
                            361.71995 (04041822)
                                                                                 324.25167 (05011817)
    631200.63 4175250.44
                                                        631550.63 4175250.44
    631900.63 4175250.44
                            202.32847 (07080303)
                                                        632250.63 4175250.44
                                                                                 153.22068 (04101518)
                            114.66248 (04030118)
                                                        632950.63 4175250.44
                                                                                 84.85952 (05121217)
    632600.63 4175250.44
                                                        629800.63 4175600.44
    633300.63 4175250.44
                            64.90281 (05011522)
                                                                                 51.67363 (07042002)
    630150.63 4175600.44
                            71.60678 (07042002)
                                                        630500.63 4175600.44
                                                                                 97.73030 (06041503)
    630850.63 4175600.44
                            136.29513 (06011217)
                                                        631200.63 4175600.44
                                                                                 192.80309 (05081503)
    631550.63 4175600.44
                            232.78853 (06102817)
                                                        631900.63 4175600.44
                                                                                 192.42469 (06102818)
    632250.63 4175600.44
                            165.40411 (08010919)
                                                        632600.63 4175600.44
                                                                                 130.25806 (06121320)
    632950.63 4175600.44
                            101.78066 (07012418)
                                                        633300.63 4175600.44
                                                                                 70.08801 (07012318)
    629800.63 4175950.44
                            53.88977 (06011217)
                                                        630150.63 4175950.44
                                                                                 66.92570 (07120622)
  *** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-
977GSBU)\Documents\HRA\Tracy C ***
                                        12/13/23
*** AERMET - VERSION 18081 *** ***
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*** MODELOPTs: CONC ELEV RURAL ADJ_U*
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*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:

STCK10 ***

INCLUDING SOURCE(S): STCK10 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD ( (YYMMDDHH)	M) Y-COORD	O(M) CO	ONC	(YYMMD)	DHH)	X-COORD (M)	Y-COORD (M) CONC
630500.63	4175950.44	83.94236	(06080	604)	630850.63	4175950.44	106.60654 (07080103)
	4175950.44	127.96017			631550.63		174.59150 (06052305)
	4175950.44	173.35641			632250.63		128.32631 (08040221)
632600.63	4175950.44	105.80430			632950.63	4175950.44	92.40757 (06121503)
633300.63	4175950.44	69.43687	(05122	401)	629800.63	4176300.44	47.82932 (05030322)
630150.63	4176300.44	58.29365	(06041	301)	630500.63	4176300.44	69.18581 (07010318)
630850.63	4176300.44	83.85182	(04101	820)	631200.63	4176300.44	102.44086 (08091907)
631550.63	4176300.44	108.57508	(06052)	2305)	631900.63	4176300.44	116.80817 (07091007)
	4176300.44	120.05333		/	632600.63		98.19364 (06052306)
	4176300.44	79.86062			633300.63	4176300.44	61.57368 (04121024)
	4176650.44	46.11556	`	,	630150.63	4176650.44	51.28268 (04021521)
	4176650.44	55.98547			630850.63	4176650.44	63.95442 (07021218)
	4176650.44	74.47495	`	,	631550.63	4176650.44	82.31920 (05112507)
	4176650.44	96.54155			632250.63	4176650.44	84.78864 (06072006)
	4176650.44	83.47455		,	632950.63	4176650.44	66.98636 (06122320)
	4176650.44	61.55843			629800.63	4177000.44	37.44523 (04021521)
	4177000.44	44.08872			630500.63	4177000.44	52.58190 (07122917)
	4177000.44	63.42938	`	,	631200.63		63.23210 (07021108)
	4177000.44	66.73686	`	,	631900.63	4177000.44	67.07642 (04081203)
	4177000.44	67.10242	`	/	632600.63	4177000.44	62.02453 (04121820)
	4177000.44	56.38488			633300.63	4177000.44	53.25719 (08021908)
	4177350.44	35.65129			630150.63	4177350.44	38.42330 (07012719)
	4177350.44	42.96805	`	,	630850.63	4177350.44	51.83913 (08091907)
	4177350.44 4177350.44	50.44396	`	,	631550.63 632250.63	4177350.44 4177350.44	54.50784 (07122904)
	4177350.44	56.98880	`	,	632250.63	4177350.44	55.64845 (06012820)
	4177350.44	53.11521 39.00032			632930.63		54.84762 (06062806) 587.45937 (05072102)
	41775641.41	39.00032	`	,	631670.70		120.16800 (06102817)
	4175826.85	205.80897		/		4175673.66	280.27677 (05112506)
	4175484.63	385.59857		/		4175983.74	131.87590 (06110119)
	4175523.99	255.09892	`	,		4175419.50	457.57823 (05083119)
	4175441.30	515.97524		,		4175442.21	375.49155 (06011109)
	4175414.95	599.66239				4175413.14	539.79301 (05071702)
	4175395.87	466.69788				4175336.81	725.43243 (05072102)
	4175235.96	275.86254	`	,		4175028.80	161.42938 (08031018)
	4175003.36	151.14168	`	/		4174987.91	137.96640 (04081924)
	4175988.28	171.12341	`	/		4175963.75	134.72433 (06110119)
	4175943.76	137.14111				4175923.77	138.97647 (06110119)
	4175903.78	143.88370	`	/		4175883.79	149.34651 (06110119)
	4175863.81	149.85297	`	/		4175843.82	168.33568 (04083005)
						PC (DESKTOR	
977GSBU)\Doci					1		

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:

STCK10 ***

INCLUDING SOURCE(S): STCK10 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M) Y-COORI (YYMMDDHH)	O (M) CO	ONC (YYM	MMDDHH)	X-COORD (M)	Y-COORD	(M) CONC
631270.95 4175823.83	172 26126	(04083005)	631271.26	4175803.84	176 04949	(07090904)
631271.58 4175783.85		(05081406)	631271.90			(04101820)
631272.21 4175743.87		(04101820)	631272.53			(05112504)
631272.85 4175703.89		(07090904)		4175683.90		(07082502)
631273.48 4175663.91		(07082502)	631273.79			(07082502)
631274.11 4175623.94		(04082001)	631274.43			(04082001)
631274.74 4175583.96		(04082001)	631275.06			(04082001)
631275.37 4175543.98		(07102702)		4175509.06		(08081602)
631295.68 4175494.14		(08081602)	631305.67	4175479.21		(05111617)
631315.67 4175464.28	332.47562	(05111617)	631325.66	4175449.35	350.29075	(06121423)
631335.66 4175434.43	378.95000	(05071702)	631358.67	4175426.77	430.10082	(05071702)
631371.70 4175434.03	491.27031	(05071702)	631402.59	4175441.45	525.66106	(06121423)
631420.46 4175441.60	529.64429	(06121423)	631438.33	4175441.76	246.72162	(05081406)
631456.19 4175441.91	208.27809	(07090905)	631474.06	4175442.06	296.19785	(06110119)
631491.93 4175428.58	469.34524	(06011109)	631474.21	4175414.65	395.10920	(04012317)
631456.50 4175414.35	290.37266	(05083119)	631438.78	4175414.05	341.78840	(05083119)
631421.06 4175413.74	598.84270	(05071702)	631403.35	4175413.44	567.46897	(05071702)
631372.00 4175404.51	506.90298	(05030320)	631371.09	4175381.11	532.16313	(06092418)
631383.81 4175366.34	607.91756	(04041821)	631396.53	4175351.58	693.73401	(07110617)
631425.06 4175326.73	1065.43983	(08081806)	631440.87	4175316.64	1240.09311	(05111717)
631456.68 4175306.56	962.44193	(05111717)	631472.49	4175296.47	792.63693	(06011109)
631488.30 4175286.39	627.21273	(04101605)	631504.11	4175276.30	581.74588	(08081805)
631519.92 4175266.22	521.23232	(08081805)	631535.73		344.78555	(04102617)
631551.54 4175246.05	314.82815	(05011817)	631579.95	4175222.15	266.51562	(04102617)
631592.55 4175208.34	243.21679	(04102617)	631605.15		252.30383	(05011817)
631617.74 4175180.72		(05011817)		4175166.91		(08071406)
631642.94 4175153.10		(08071406)		4175139.29		(08090903)
631668.14 4175125.47		(08090903)	631680.74	4175111.66		(08090903)
631693.34 4175097.85		(08090903)	631705.94			(08031018)
631718.53 4175070.23		(08031018)	631731.13			(08031018)
631743.73 4175042.61		(08031018)		4175020.32		(08031018)
631790.26 4175011.84		(08031018)		4174999.50		(08031018)
631837.20 4174995.64		(04081924)		4174991.77		(04081924)
631866.84 4175007.53		(08090905)		4175027.14		(05011317)
631866.16 4175046.76		(08090519)		4175066.37		(08090519)
631865.49 4175085.99		(08090519)		4175105.60		(05011417)
631864.81 4175125.22		(05110817)		4175144.83		(07102905)
631864.13 4175164.45		(07102905)		4175184.06		(07102905)
631863.46 4175203.68		(06052002)		4175223.29		(06052002)
631862.78 4175242.91		(06052002)		4175262.52		(07080303)
*** AERMOD - VERSION	19191 ***	*** C:\Users	\Smith\Dropbox\My	PC (DESKTOP	'-	

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*** MODELOPTs: CONC ELEV RURAL ADJ U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:

STCK10 ***

INCLUDING SOURCE(S): STCK10

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 *

X-COORD (M) Y-COORD (M) X-COORD (M) Y-COORD (M) CONC (YYMMDDHH) **CONC** (YYMMDDHH) 631862.10 4175282.14 282.29071 (04110905) 631861.77 4175301.75 323.87368 (04101518) 348.81156 (04101518) 631861.43 4175321.37 631861.09 4175340.98 385.86440 (04083003) 631860.75 4175360.60 440.37317 (04083003) 631860.41 4175380.21 464.95555 (04083003) 631860.07 4175399.83 468.18187 (08091903) 631859.73 4175419.44 456.16663 (05030407) 631859.40 4175439.06 430.22774 (05030407) 631859.06 4175458.67 379.00725 (08021518) 631858.72 4175478.29 315.45580 (08021518) 631858.38 4175497.90 245.20923 (08021518) 631858.04 4175517.52 201.57438 (08010919) 631857.70 4175537.13 186.62363 (06111908) 631857.37 4175556.75 185.29163 (06102818) 631857.03 4175576.36 181.01984 (06102818) 631856.69 4175595.98 169.06057 (06102818) 631856.35 4175615.59 165.17079 (07112517) 631856.01 4175635.21 167.49438 (07092306) 631855.67 4175654.82 165.75523 (07092306) 631855.33 4175674.44 159.21727 (06052306) 631855.00 4175694.05 163.90018 (06052306) 165.70132 (06110304) 631854.32 4175733.28 169.29158 (06110304) 631854.66 4175713.67 169.14808 (06110304) 165.34255 (06110304) 631853.98 4175752.90 631853.64 4175772.51 631853.30 4175792.13 167.06012 (04082204) 631852.97 4175811.74 171.81685 (07102824) 631852.63 4175831.36 174.31664 (07102824) 631852.29 4175850.97 172.45270 (08040220) 631851.95 4175870.59 169.65389 (08040220) 631851.61 4175890.20 164.60672 (08040220) 631851.27 4175909.82 216.91544 (04082204) 181.52094 (06062806) 631850.94 4175929.43 631850.60 4175949.05 204.29104 (04050604) 631850.26 4175968.66 176.53094 (04050604) 174.62144 (07092304) 178.82508 (06081406) 631830.54 4175988.13 631811.15 4175987.98 182.17293 (07091007) 631791.77 4175987.83 631772.39 4175987.67 208.13262 (05082502) 238.03497 (06100919) 247.90383 (07102901) 631753.00 4175987.52 631733.62 4175987.37 631714.24 4175987.22 249.69647 (07102901) 631694.85 4175987.07 248.50454 (06080603) 631675.47 4175986.92 258.75718 (07091007) 631656.09 4175986.77 254.81919 (07091007) 631636.70 4175986.62 246.50337 (07091007) 631617.32 4175986.46 234.05942 (07091007) 631597.94 4175986.31 218.09309 (07091007) 631578.55 4175986.16 212.98823 (04111519) 631559.17 4175986.01 204.11432 (04111519) 631539.79 4175985.86 189.23238 (04111519) 631520.40 4175985.71 169.64221 (04111519) 631501.02 4175985.56 166.61234 (04111019) 631481.64 4175985.40 164.46087 (04111019) 631462.25 4175985.25 157.80153 (04111019) 631442.87 4175985.10 147.86716 (07080306) 631423.49 4175984.95 146.23318 (07080306) 631404.10 4175984.80 145.37807 (07102902) 631384.72 4175984.65 142.85522 (07102902) 631365.34 4175984.50 138.42330 (05042719) 631345.95 4175984.35 135.84866 (07071003) 138.14799 (08091907) 631326.57 4175984.19 136.79074 (08091907) 631307.19 4175984.04 136.26072 (08091907) 631287.80 4175983.89 631050.63 4175100.50 273.06716 (05072102) 631050.63 4175200.50 262.89883 (07110617) 631050.63 4175300.50 245.69205 (04041821) 256.72705 (06072903) 194.89915 (06041503) 631050.63 4175400.50 631050.63 4175500.50 167.27894 (08081602) 141.85651 (04082001) 631050.63 4175600.50 631050.63 4175700.50 631050.63 4175800.50 130.98760 (07080103) 631050.63 4175900.50 119.42608 (04110906) 631050.63 4176000.50 111.93190 (05112504) 631050.63 4176100.50 105.88419 (05081406) 296.38962 (08081806) 631150.63 4175100.50 631150.63 4175200.50 319.85057 (05030319) 631150.63 4175300.50 318.27734 (04041821) 631150.63 4175400.50 313.42067 (06072903)

*** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-

977GSBU)\Documents\HRA\Tracy C *** 12/13/23

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*** 15:02:10

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*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:

STCK10 ***

INCLUDING SOURCE(S): STCK10 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M) Y-COORD (M) **CONC** (YYMMDDHH) X-COORD (M) Y-COORD (M) **CONC** (YYMMDDHH) 219.49936 (06121423) 631150.63 4175500.50 631150.63 4175600.50 181.09039 (06033021) 631150.63 4175700.50 158.52593 (07080103) 631150.63 4175800.50 141.21270 (04110906) 631150.63 4175900.50 128.48576 (04101820) 631150.63 4176000.50 119.56645 (04083005) 631150.63 4176100.50 106.22816 (07090905) 631250.63 4175100.50 348.46062 (04012317) 631250.63 4175200.50 370.50327 (08081806) 631250.63 4175300.50 425.07258 (07110617) 631250.63 4175400.50 391.52449 (06072903) 631250.63 4175500.50 243.70135 (05072902) 631250.63 4175600.50 210.60333 (04082001) 631250.63 4175700.50 194.56185 (04110906) 631250.63 4175800.50 172.06849 (05081406) 631250.63 4175900.50 135.72583 (07090905) 631250.63 4176000.50 128.09619 (06110119) 631250.63 4176100.50 121.11064 (08091907) 377.19882 (06011109) 471.18900 (04012317) 631350.63 4175100.50 631350.63 4175200.50 567.49241 (06051905) 472.43572 (06072903) 631350.63 4175300.50 631350.63 4175400.50 631350.63 4175500.50 329.15739 (06033021) 631350.63 4175600.50 258.05609 (05122507) 631350.63 4175700.50 233.98996 (06110119) 631350.63 4175800.50 179.09376 (07071003) 168.34731 (08091907) 631350.63 4175900.50 631350.63 4176000.50 132.31561 (05042719) 631350.63 4176100.50 121.73613 (07102902) 631450.63 4175100.50 305.14607 (06102817) 462.70614 (06102817) 876.42914 (08121017) 631450.63 4175200.50 631450.63 4175300.50 631450.63 4175400.50 681.39433 (04041821) 631450.63 4175500.50 512.07128 (08091907) 631450.63 4175600.50 428.45068 (05042719) 631450.63 4175700.50 296.99459 (07080306) 631450.63 4175800.50 217.59859 (07030418) 631450.63 4175900.50 174.81287 (07030418) 631450.63 4176000.50 145.22400 (07030418) 631450.63 4176100.50 129.85741 (04111019) 217.93067 (05110722) 631550.63 4175100.50 631550.63 4175200.50 271.34416 (04102617) 631550.63 4175300.50 232.82032 (06102817) 631550.63 4175400.50 752.90398 (04022118) 631550.63 4175500.50 503.54289 (04101605) 631550.63 4175600.50 232.65655 (06102817) 631550.63 4175700.50 74.23205 (08081805) 631550.63 4175800.50 229.76794 (05020318) 177.02045 (07122819) 194.50046 (04111519) 631550.63 4175900.50 631550.63 4176000.50 195.23074 (08071406) 631550.63 4176100.50 132.37069 (06052305) 631650.63 4175100.50 631650.63 4175200.50 215.71040 (08071406) 631650.63 4175300.50 59.28334 (07102906) 631650.63 4175400.50 172.32892 (06012710) 631650.63 4175500.50 607.52528 (05122619) 193.91035 (05030118) 406.63623 (06011109) 631650.63 4175600.50 631650.63 4175700.50 631650.63 4175800.50 115.19465 (06102817) 631650.63 4175900.50 107.27581 (06080603) 249.11933 (07091007) 175.42266 (07091007) 631650.63 4176000.50 631650.63 4176100.50 631750.63 4175100.50 175.18665 (08031018) 631750.63 4175200.50 230.06546 (07102905) 631750.63 4175300.50 113.54541 (07102906) 631750.63 4175400.50 232.67826 (08091903) 631750.63 4175500.50 349.63950 (04041822) 631750.63 4175600.50 334.72312 (05111717) 631750.63 4175700.50 208.13533 (08121017) 631750.63 4175800.50 131.25628 (04050604) 149.43040 (06081406) 212.78240 (07091007) 631750.63 4175900.50 631750.63 4176000.50 631750.63 4176100.50 183.92318 (07091007) 631850.63 4175100.50 164.23648 (08090519) 631850.63 4175300.50 631850.63 4175200.50 189.28566 (06052002) 339.33549 (04110905) 631850.63 4175400.50 528.94127 (08091903) 631850.63 4175500.50 265.39037 (08021518)

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631850.63 4175600.50
                        164.04814 (05072806)
                                                   631850.63 4175700.50 163.56593 (06052306)
*** AERMET - VERSION 18081 *** ***
                                                                            15:02:10
                                                         PAGE 180
*** MODELOPTs: CONC ELEV RURAL ADJ U*
              *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:
STCK10 ***
                INCLUDING SOURCE(S):
                                        STCK10
                      *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                   ** CONC OF OTHER IN MICROGRAMS/M**3
                                                           X-COORD (M) Y-COORD (M)
   X-COORD (M) Y-COORD (M)
                                CONC (YYMMDDHH)
                                                                                         CONC
(YYMMDDHH)
    631850.63 4175800.50
                         168.93582 (07102824)
                                                   631850.63 4175900.50
                                                                         160.76722 (08040220)
    631850.63 4176000.50
                         167.61781 (08091905)
                                                   631850.63 4176100.50
                                                                         146.27043 (06081406)
    631950.63 4175100.50
                         154.41082 (07102905)
                                                   631950.63 4175200.50
                                                                         181.60443 (06052002)
                                                                         288.41965 (08091903)
                         226.08574 (04101518)
    631950.63 4175300.50
                                                   631950.63 4175400.50
    631950.63 4175500.50
                         375.16896 (07092305)
                                                   631950.63 4175600.50
                                                                         377.56737 (06102818)
    631950.63 4175700.50
                         186.55087 (07092306)
                                                   631950.63 4175800.50
                                                                         261.32785 (06052306)
    631950.63 4175900.50
                         179.36420 (04082204)
                                                   631950.63 4176000.50
                                                                         161.16154 (06062806)
    631950.63 4176100.50
                         136.39707 (04050604)
                                                   632050.63 4175100.50
                                                                         136.69372 (06052002)
                         159.75597 (07080303)
    632050.63 4175200.50
                                                   632050.63 4175300.50
                                                                         188.86836 (06100506)
    632050.63 4175400.50
                         239.76311 (08091903)
                                                   632050.63 4175500.50
                                                                         232.13987 (07102907)
    632050.63 4175600.50
                         225.19409 (06111908)
                                                   632050.63 4175700.50
                                                                         201.96914 (05072806)
    632050.63 4175800.50
                         172.69917 (08040221)
                                                   632050.63 4175900.50
                                                                         163.74152 (06052306)
    632050.63 4176000.50
                         145.23437 (04082204)
                                                   632050.63 4176100.50
                                                                         142.65435 (06062806)
  *** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-
977GSBU)\Documents\HRA\Tracy C ***
                                    12/13/23
*** AERMET - VERSION 18081 *** ***
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                                                                            15:02:10
                                                         PAGE 181
*** MODELOPTs: CONC ELEV RURAL ADJ U*
              *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:
STCK11 ***
                INCLUDING SOURCE(S): STCK11
                      *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                   ** CONC OF OTHER IN MICROGRAMS/M**3
                                                           X-COORD (M) Y-COORD (M)
   X-COORD (M) Y-COORD (M)
                                CONC
                                      (YYMMDDHH)
                                                                                         CONC
(YYMMDDHH)
                                                   632304.44 4174354.52
    632121.21 4174952.36
                         131.12886 (05011317)
                                                                         76.87598 (08031018)
                         126.42617 (05011317)
    632192.15 4174956.32
                                                   632420.62 4175510.15
                                                                         144.73289 (06011618)
    632418.97 4175552.92
                         136.78463 (04030118)
                                                   631187.00 4175727.00
                                                                         508.00584 (06072903)
                         474.50782 (06072903)
                                                                         447.75697 (06072903)
    631166.00 4175729.00
                                                   631121.00 4175719.00
    631035.00 4174830.00
                         123.37137 (05030118)
                                                   631106.00 4174825.00
                                                                         136.82939 (06102817)
                                                                         81.50131 (05050803)
    631937.00 4174528.00
                         103.75348 (08071406)
                                                   631322.00 4174522.00
    629800.63 4173850.44
                         13.93223 (04012317)
                                                   630150.63 4173850.44
                                                                         31.08992 (06011109)
    630500.63 4173850.44
                          35.47242 (05012117)
                                                   630850.63 4173850.44
                                                                         53.79819 (06102817)
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631200.63 4173850.44
                            39.73619 (06121420)
                                                       631550.63 4173850.44
                                                                               51.09293 (05021805)
    631900.63 4173850.44
                            43.89781 (04122824)
                                                       632250.63 4173850.44
                                                                               52.57953 (08071406)
    632600.63 4173850.44
                            48.80274 (05020818)
                                                       632950.63 4173850.44
                                                                               44.71268 (05011520)
    633300.63 4173850.44
                            37.83426 (06122122)
                                                       629800.63 4174200.44
                                                                               22.19588 (06121421)
                            45.56690 (04012317)
                                                                               84.60067 (06011109)
    630150.63 4174200.44
                                                       630500.63 4174200.44
    630850.63 4174200.44
                            77.00239 (06102817)
                                                       631200.63 4174200.44
                                                                               62.70769 (06121420)
    631550.63 4174200.44
                            71.04393 (04122823)
                                                       631900.63 4174200.44
                                                                               71.45143 (05021804)
    632250.63 4174200.44
                            64.85385 (04122822)
                                                       632600.63 4174200.44
                                                                               61.68864 (05011520)
    632950.63 4174200.44
                                                                               38.68001 (07021118)
                            52.66167 (06122122)
                                                       633300.63 4174200.44
    629800.63 4174550.44
                            43.76318 (07020624)
                                                       630150.63 4174550.44
                                                                               64.71851 (06121421)
    630500.63 4174550.44
                            92.05379 (04012317)
                                                       630850.63 4174550.44
                                                                               96.75740 (06011109)
    631200.63 4174550.44
                            90.37530 (08081805)
                                                       631550.63 4174550.44
                                                                               97.10951 (04102617)
    631900.63 4174550.44
                            107.91723 (05011817)
                                                       632250.63 4174550.44
                                                                                96.69399 (08031018)
                            75.03840 (05011317)
                                                       632950.63 4174550.44
                                                                               65.58142 (06011617)
    632600.63 4174550.44
    633300.63 4174550.44
                            46.95241 (05020802)
                                                       629800.63 4174900.44
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977GSBU)\Documents\HRA\Tracy C ***
                                       12/13/23
*** AERMET - VERSION 18081 *** ***
                                                                                  15:02:10
                                                              PAGE 182
*** MODELOPTs: CONC ELEV RURAL ADJ U*
               *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:
STCK11 ***
                 INCLUDING SOURCE(S):
                                           STCK11
                       *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                     ** CONC OF OTHER IN MICROGRAMS/M**3
   X-COORD (M) Y-COORD (M)
                                  CONC
                                                                X-COORD (M) Y-COORD (M)
                                           (YYMMDDHH)
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  *** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-
977GSBU)\Documents\HRA\Tracy C ***
                                       12/13/23
*** AERMET - VERSION 18081 *** ***
                                                                                  15:02:10
                                                              PAGE 183
*** MODELOPTs: CONC ELEV RURAL ADJ U*
               *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:
STCK11 ***
                 INCLUDING SOURCE(S):
                                           STCK11
                       *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                     ** CONC OF OTHER IN MICROGRAMS/M**3
                                                                              **
                                                                 X-COORD (M) Y-COORD (M)
   X-COORD (M) Y-COORD (M)
                                   CONC
                                           (YYMMDDHH)
                                                                                                 CONC
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  *** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-
977GSBU)\Documents\HRA\Tracy C ***
                                       12/13/23
*** AERMET - VERSION 18081 *** ***
                                                                                  15:02:10
                                                              PAGE 184
*** MODELOPTs: CONC ELEV RURAL ADJ U*
               *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:
STCK11 ***
                 INCLUDING SOURCE(S):
                                           STCK11
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                     ** CONC OF OTHER IN MICROGRAMS/M**3
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                                   CONC
                                           (YYMMDDHH)
                                                                X-COORD (M) Y-COORD (M)
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                                                                               164.82771 (06011109)
                                                       631050.63 4175100.50
    631050.63 4175200.50
                           178.83718 (04012317)
                                                       631050.63 4175300.50
                                                                               200.87315 (05111717)
    631050.63 4175400.50
                           227.40967 (05072102)
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                                                                               257.99177 (04041822)
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                           307.49869 (05030401)
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                                                                               386.34475 (06072903)
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    631050.63 4175800.50
                           315.53632 (06121423)
                                                       631050.63 4175900.50
                           230.73610 (04082001)
                                                                               192.32541 (07082502)
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                                                       631050.63 4176100.50
    631150.63 4175100.50
                           162.85942 (04101605)
                                                       631150.63 4175200.50
                                                                               195.35045 (06011109)
                           208.40794 (04012317)
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                                                       631150.63 4175400.50
                                                                               253.89997 (05111717)
  *** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-
977GSBU)\Documents\HRA\Tracy C ***
                                       12/13/23
*** AERMET - VERSION 18081 *** ***
                                                                                  15:02:10
                                                              PAGE 185
*** MODELOPTs: CONC ELEV RURAL ADJ U*
               *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:
STCK11 ***
                 INCLUDING SOURCE(S):
                                           STCK11
                       *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                     ** CONC OF OTHER IN MICROGRAMS/M**3
   X-COORD (M) Y-COORD (M)
                                  CONC
                                           (YYMMDDHH)
                                                                X-COORD (M) Y-COORD (M)
                                                                                                 CONC
(YYMMDDHH)
                           312.23150 (05072102)
                                                       631150.63 4175600.50
                                                                               369.62672 (07110617)
    631150.63 4175500.50
                           491.10983 (06072903)
                                                                               368.91801 (05111617)
    631150.63 4175700.50
                                                       631150.63 4175800.50
    631150.63 4175900.50
                           298.20848 (04082001)
                                                       631150.63 4176000.50
                                                                               244.31207 (07082502)
    631150.63 4176100.50
                           203.11510 (05112504)
                                                       631250.63 4175100.50
                                                                               177.01240 (06102817)
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                           266.42176 (06011109)
    631250.63 4175400.50
                                                        631250.63 4175500.50
                                                                               437.47090 (05072102)
                           514.98852 (07110617)
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                           268.45191 (04101820)
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                           162.10555 (08081805)
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                                                       631350.63 4175600.50
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                           689.68435 (06072903)
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                                                                               315.17949 (06033021)
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                           182.99315 (07030618)
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                                                       631450.63 4175300.50
    631450.63 4175400.50
                           323.85185 (04102623)
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                                                                               194.05736 (05122422)
                           165.13835 (06052001)
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                                                                               1069.40996 (05012118)
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                           187.03904 (06062806)
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                                                                               369.48555 (04111019)
                           300.40278 (07030418)
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    631450.63 4176000.50
                                                       631450.63 4176100.50
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    631550.63 4175100.50
                           171.55325 (04102617)
                                                                               190.91814 (04102617)
                                                                               274.57958 (05011817)
    631550.63 4175300.50
                           219.04547 (08102618)
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                           294.48517 (06052001)
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    631550.63 4175700.50
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                                                                               549.47180 (07092306)
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                           208.74651 (08112520)
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                                                                               160.71310 (05011817)
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                                                       631650.63 4175300.50
                                                                               208.12897 (08071406)
    631650.63 4175400.50
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                                                                               340.79945 (06052306)
                           265.03677 (06062806)
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                                                       631750.63 4175600.50
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                                                                               412.05771 (06111908)
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                           228.38478 (06062806)
                                                                               164.97710 (08031018)
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                                                                               209.76902 (05051824)
    631850.63 4175200.50
                           181.15943 (04081924)
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                           237.16389 (07102905)
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    631850.63 4175600.50
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                                                       631850.63 4175700.50
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  *** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-
977GSBU)\Documents\HRA\Tracy C ***
                                       12/13/23
*** AERMET - VERSION 18081 *** ***
                                                                           ***
                                                                                  15:02:10
                                                              PAGE 186
*** MODELOPTS: CONC ELEV RURAL ADJ U*
               *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:
STCK11 ***
                 INCLUDING SOURCE(S):
                                           STCK11
                       *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                     ** CONC OF OTHER IN MICROGRAMS/M**3
   X-COORD (M) Y-COORD (M)
                                  CONC
                                           (YYMMDDHH)
                                                                X-COORD (M) Y-COORD (M)
                                                                                                 CONC
(YYMMDDHH)
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                           276.93512 (06111908)
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    632050.63 4175200.50
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                                                                                191.27412 (07102905)
                           212.99339 (06052002)
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                           253.23470 (07102907)
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                                                        632050.63 4175900.50
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                                                                                189.51269 (07092306)
    632050.63 4176000.50
  *** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-
977GSBU)\Documents\HRA\Tracy C ***
                                       12/13/23
*** AERMET - VERSION 18081 *** ***
                                                                                  15:02:10
                                                              PAGE 187
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*** MODELOPTs: CONC ELEV RURAL ADJ U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:

STCK12 ***

INCLUDING SOURCE(S): STCK12 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD ( (YYMMDDHH	(M) Y-COORD )	(M) CO	ONC	(YYMMDDI	НН)	X-COORD (M)	Y-COORD (M)	CONC
632121.21	4174952.36	154.99579	(0511	2916)	632304 44	4174354.52	 94.44019 (08031	018)
632192.15	4174956.32	159.46051	`	,	632420.62		150.15799 (0403)	,
	4175552.92	134.58776			631187.00		477.69122 (0808	,
	4175729.00	524.04973				4175719.00	416.02078 (0506	,
	4174830.00	132.26933		,	631106.00		127.28569 (0503)	,
	4174528.00	113.42145		,	631322.00		83.78558 (08081	,
	4173850.44	12.41398	`	,	630150.63		24.89231 (06011	,
630500.63	4173850.44	39.64407	`	,	630850.63	4173850.44	56.41001 (06102)	,
631200.63	4173850.44	40.67625			631550.63	4173850.44	52.29774 (05021)	
631900.63	4173850.44	46.95068			632250.63	4173850.44	53.30077 (080714	
632600.63	4173850.44	52.40396			632950.63	4173850.44	40.33383 (050113	
633300.63	4173850.44	37.68770	(05021	(018)	629800.63	4174200.44	22.34465 (061214	421)
630150.63	4174200.44	43.84316	(04012	2317)	630500.63	4174200.44	75.56555 (06011	109)
630850.63	4174200.44	70.51483	(06102)	2817)	631200.63	4174200.44	62.27833 (080813	805)
631550.63	4174200.44	72.82203	(04122)	2823)	631900.63	4174200.44	82.69590 (070114	417)
632250.63	4174200.44	74.61326	(04122)	2822)	632600.63	4174200.44	64.97129 (05011:	520)
632950.63	4174200.44	55.74455	(05112)	2916)	633300.63	4174200.44	51.24469 (06011)	617)
629800.63	4174550.44	49.29820	`	,	630150.63	4174550.44	53.43677 (061214	/
630500.63	4174550.44	94.79892			630850.63	4174550.44	112.71256 (06011	
	4174550.44	95.22693			631550.63	4174550.44	107.84689 (04102	,
631900.63	4174550.44	123.40811			632250.63	4174550.44	95.70380 (08031	,
632600.63	4174550.44	89.59073			632950.63		75.05355 (06011)	
	4174550.44	49.44702			629800.63		49.57570 (061212	
630150.63	4174900.44	70.48817			630500.63		91.01910 (05122)	
630850.63	4174900.44	138.33637			631200.63		153.77681 (0610)	
	4174900.44	169.09985			631900.63		167.32772 (0803	/
	4174900.44	147.77701			632600.63		99.55491 (05020	,
632950.63	4174900.44	77.88044	`	,	633300.63		45.97305 (050213	
629800.63	4175250.44	50.17015	(04022)	2207)	630150.63	4175250.44	98.05178 (040222	207)

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                            132.71341 (07110617)
                                                        630850.63 4175250.44
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    631200.63 4175250.44
                            208.87109 (06011109)
                                                                                274.79999 (08102618)
                                                        631550.63 4175250.44
                            238.67924 (05110817)
                                                                                165.40807 (08110218)
    631900.63 4175250.44
                                                        632250.63 4175250.44
                                                                                 78.01371 (07020218)
    632600.63 4175250.44
                            119.17409 (07010217)
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    633300.63 4175250.44
                            53.10564 (06011618)
                                                        629800.63 4175600.44
                                                                                71.86781 (05122618)
    630150.63 4175600.44
                            112.51920 (05122618)
                                                        630500.63 4175600.44
                                                                                167.47024 (05122618)
    630850.63 4175600.44
                            288.51833 (06072903)
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                                                                                785.45224 (05030320)
    631550.63 4175600.44
                            1273.08935 (04030118)
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    632250.63 4175600.44
                            161.76124 (06011619)
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                                                                                103.88641 (06011619)
    632950.63 4175600.44
                            66.34809 (06011619)
                                                        633300.63 4175600.44
                                                                                45.79929 (06011619)
    629800.63 4175950.44
                            81.01074 (06011024)
                                                        630150.63 4175950.44
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  *** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-
977GSBU)\Documents\HRA\Tracy C ***
                                        12/13/23
*** AERMET - VERSION 18081 *** ***
                                                                                   15:02:10
                                                               PAGE 188
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*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:

STCK12 ***

INCLUDING SOURCE(S): STCK12 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3

CONC X-COORD (M) Y-COORD (M) X-COORD (M) Y-COORD (M) (YYMMDDHH) **CONC** (YYMMDDHH) 191.18430 (07102702) 630500.63 4175950.44 138.93598 (05051724) 630850.63 4175950.44 631200.63 4175950.44 260.16234 (04101820) 631550.63 4175950.44 292.12878 (07102901) 153.10428 (06111908) 188.86942 (06052306) 631900.63 4175950.44 632250.63 4175950.44 102.09168 (05122401) 632600.63 4175950.44 632950.63 4175950.44 79.82315 (06012918) 52.39942 (05012018) 75.64672 (07120622) 633300.63 4175950.44 629800.63 4176300.44 630150.63 4176300.44 87.95192 (05030322) 630500.63 4176300.44 115.81396 (04021520) 630850.63 4176300.44 141.42017 (04082205) 631200.63 4176300.44 160.17991 (08091907) 631550.63 4176300.44 145.39763 (05072006) 631900.63 4176300.44 129.47145 (08102318) 632250.63 4176300.44 123.18367 (06052306) 632600.63 4176300.44 85.77808 (07120406) 47.59821 (06121503) 632950.63 4176300.44 65.21064 (04011021) 633300.63 4176300.44 629800.63 4176650.44 60.67306 (06122121) 630150.63 4176650.44 69.43734 (04021521) 630500.63 4176650.44 93.74565 (04120903) 630850.63 4176650.44 98.77899 (05122507) 631200.63 4176650.44 108.87465 (05112506) 631550.63 4176650.44 101.40194 (04111519) 90.37485 (05082502) 109.14916 (06062806) 631900.63 4176650.44 632250.63 4176650.44 632600.63 4176650.44 77.09437 (08021908) 632950.63 4176650.44 63.31312 (08021808) 633300.63 4176650.44 41.70856 (05011818) 629800.63 4177000.44 53.51715 (04021521) 630150.63 4177000.44 63.81664 (04010518) 630500.63 4177000.44 74.81713 (07012719) 80.53060 (06020107) 630850.63 4177000.44 85.88212 (08091907) 631200.63 4177000.44 631550.63 4177000.44 79.83892 (08122723) 631900.63 4177000.44 71.71958 (04020619) 65.28707 (06010522) 74.57539 (06062806) 632250.63 4177000.44 632600.63 4177000.44 632950.63 4177000.44 55.96760 (08021908) 633300.63 4177000.44 43.40259 (08021808) 629800.63 4177350.44 44.14033 (04010518) 630150.63 4177350.44 53.32306 (04120908) 630500.63 4177350.44 58.40790 (07021218) 630850.63 4177350.44 66.91687 (08091907) 631200.63 4177350.44 64.24358 (06020124) 631550.63 4177350.44 61.56092 (08122723) 631900.63 4177350.44 57.59212 (05021302) 632250.63 4177350.44 52.35734 (05022620) 632600.63 4177350.44 45.10214 (05121423) 632950.63 4177350.44 45.13303 (06062806) 633300.63 4177350.44 39.23972 (08021908) 631670.70 4175493.59 487.12857 (06052002) 631669.80 4175641.41 579.36256 (07102907) 631665.32 4175796.39 389.15856 (06040701)

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                                                      631417.17 4175673.66
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    631422.55 4175484.63
                           203.85694 (04102623)
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                                                                             265.29271 (07090905)
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                           716.16108 (06121422)
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                                                                             459.54384 (08121017)
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                           561.31702 (04102617)
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                                                                             432.31267 (06102817)
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                           425.11644 (04101605)
                                                      631409.25 4175336.81
                                                                             273.31246 (08081805)
                           266.12527 (08102618)
                                                                             174.10583 (08090903)
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    631807.22 4175003.36
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                                                      631867.18 4174987.91
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    631849.92 4175988.28
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    631269.05 4175943.76
                           294.50936 (04082205)
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                                                                             263.56871 (04101820)
    631269.68 4175903.78
                           280.21305 (04101820)
                                                      631270.00 4175883.79
                                                                             287.08088 (04101820)
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                           280.54569 (04101820)
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  *** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-
977GSBU)\Documents\HRA\Tracy C ***
                                      12/13/23
*** AERMET - VERSION 18081 *** ***
                                                                         ***
                                                                                15:02:10
                                                             PAGE 189
*** MODELOPTS: CONC ELEV RURAL ADJ U*
               *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:
STCK12 ***
                 INCLUDING SOURCE(S):
                                          STCK12
                       *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                    ** CONC OF OTHER IN MICROGRAMS/M**3
                                                               X-COORD (M) Y-COORD (M)
   X-COORD (M) Y-COORD (M)
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977GSBU)\Documents\HRA\Tracy C ***
                                       12/13/23
*** AERMET - VERSION 18081 *** ***
                                                                           ***
                                                                                  15:02:10
                                                              PAGE 190
*** MODELOPTS: CONC ELEV RURAL ADJ U*
               *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:
STCK12 ***
                                           STCK12
                 INCLUDING SOURCE(S):
                       *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                     ** CONC OF OTHER IN MICROGRAMS/M**3
   X-COORD (M) Y-COORD (M)
                                                                X-COORD (M) Y-COORD (M)
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                                           (YYMMDDHH)
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  *** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-
977GSBU)\Documents\HRA\Tracy C ***
                                       12/13/23
*** AERMET - VERSION 18081 *** ***
                                                                          ***
                                                                                  15:02:10
                                                              PAGE 191
*** MODELOPTs: CONC ELEV RURAL ADJ U*
               *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:
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STCK12 ***

INCLUDING SOURCE(S): STCK12

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3

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977GSBU)\Documents\HRA\Tracy C ***
                                      12/13/23
*** AERMET - VERSION 18081 *** ***
                                                                                15:02:10
                                                             PAGE 192
*** MODELOPTs: CONC ELEV RURAL ADJ U*
               *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:
STCK12 ***
                 INCLUDING SOURCE(S): STCK12
                       *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                    ** CONC OF OTHER IN MICROGRAMS/M**3
   X-COORD (M) Y-COORD (M)
                                                               X-COORD (M) Y-COORD (M)
                                  CONC
                                          (YYMMDDHH)
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  *** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-
977GSBU)\Documents\HRA\Tracy C ***
                                      12/13/23
*** AERMET - VERSION 18081 *** ***
                                                                                15:02:10
                                                             PAGE 193
*** MODELOPTs: CONC ELEV RURAL ADJ U*
               *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:
STCK13 ***
                 INCLUDING SOURCE(S):
                                          STCK13
                       *** DISCRETE CARTESIAN RECEPTOR POINTS ***
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X-COORD (M) Y-COORD (M)
                                   CONC
                                           (YYMMDDHH)
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  *** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-
977GSBU)\Documents\HRA\Tracy C ***
                                        12/13/23
*** AERMET - VERSION 18081 *** ***
                                                                                   15:02:10
                                                              PAGE 194
*** MODELOPTs: CONC ELEV RURAL ADJ U*
               *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:
STCK13 ***
                 INCLUDING SOURCE(S):
                                            STCK13
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# *** DISCRETE CARTESIAN RECEPTOR POINTS ***

**

### ** CONC OF OTHER IN MICROGRAMS/M**3

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  *** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-
977GSBU)\Documents\HRA\Tracy C ***
                                        12/13/23
*** AERMET - VERSION 18081 *** ***
                                                                            ***
                                                                                   15:02:10
                                                               PAGE 195
*** MODELOPTs: CONC ELEV RURAL ADJ U*
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 $file: ///C/...977GSBU)/Documents/HRA/Tracy\%20Costco\%20DepotV4\%20-\%20OP/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3. ADO.txt[12/18/2023 \ 11:20:47 \ AM]/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V20V20V3/Tracy\%20Costco\%20V20V20V20V20V20V20V$ 

STCK13

INCLUDING SOURCE(S):

STCK13 ***

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:

# *** DISCRETE CARTESIAN RECEPTOR POINTS ***

**

** CONC OF OTHER IN MICROGRAMS/M**3

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X-COORD (M) Y-COORD (M)
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                                                        631865.83 4175066.37
                                                                                143.34669 (05011317)
    631865.49 4175085.99
                            147.70934 (05011317)
                                                        631865.15 4175105.60
                                                                                150.22546 (05011317)
    631864.81 4175125.22
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                                                        631864.47 4175144.83
                                                                                158.65572 (08090519)
                            164.97978 (08090519)
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                            170.56158 (06100507)
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                                                        631863.12 4175223.29
                                                                                170.71037 (06051904)
    631862.78 4175242.91
                            172.76547 (05110817)
                                                        631862.44 4175262.52
                                                                                177.47964 (05110817)
*** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-
                                        12/13/23
977GSBU)\Documents\HRA\Tracy C ***
*** AERMET - VERSION 18081 *** ***
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                                                                                   15:02:10
                                                               PAGE 196
*** MODELOPTs: CONC ELEV RURAL ADJ U*
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*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK13 ***

INCLUDING SOURCE(S): STCK13

### *** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3

```
X-COORD (M) Y-COORD (M)
                                                                 X-COORD (M) Y-COORD (M)
                                   CONC
                                            (YYMMDDHH)
                                                                                                  CONC
(YYMMDDHH)
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                            183.54450 (07102905)
                                                        631861.77 4175301.75
                                                                                191.13751 (07102905)
    631861.43 4175321.37
                            193.88750 (07102905)
                                                        631861.09 4175340.98
                                                                                191.37961 (07102905)
    631860.75 4175360.60
                            188.96089 (08022004)
                                                        631860.41 4175380.21
                                                                                191.89449 (08021718)
    631860.07 4175399.83
                            200.00294 (06052002)
                                                        631859.73 4175419.44
                                                                                215.79439 (06052002)
    631859.40 4175439.06
                                                        631859.06 4175458.67
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                            224.17569 (06052002)
    631858.72 4175478.29
                            223.83349 (08110218)
                                                        631858.38 4175497.90
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                            231.87117 (04081304)
                                                                                248.33522 (04110905)
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                                                        631857.70 4175537.13
    631857.37 4175556.75
                            261.90422 (04110905)
                                                        631857.03 4175576.36
                                                                                268.93408 (04101518)
    631856.69 4175595.98
                            264.38198 (06100506)
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                                                                                267.61133 (07102803)
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                            312.85398 (04083003)
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                                                        631855.00 4175694.05
                                                                                311.72365 (08091903)
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                                                        631854.32 4175733.28
                                                                                310.49560 (05030407)
                                                                                267.84186 (08021518)
                            293.96482 (08021518)
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    631853.30 4175792.13
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                                                                                272.87016 (07102907)
    631852.63 4175831.36
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                                                        631852.29 4175850.97
                                                                                253.22294 (08010919)
    631851.95 4175870.59
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                                                                                241.81491 (06111908)
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                            244.04729 (06111908)
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                                                                                235.04750 (06111908)
    631850.60 4175949.05
                            232.45136 (06102818)
                                                        631850.26 4175968.66
                                                                                221.66325 (06102818)
    631830.54 4175988.13
                            216.18366 (05072806)
                                                        631811.15 4175987.98
                                                                                218.28935 (05072806)
    631791.77 4175987.83
                            218.03832 (05072806)
                                                        631772.39 4175987.67
                                                                                222.49091 (07112517)
    631753.00 4175987.52
                            226.90895 (07112517)
                                                        631733.62 4175987.37
                                                                                233.12517 (07092306)
    631714.24 4175987.22
                            237.10247 (07092306)
                                                        631694.85 4175987.07
                                                                                237.42160 (07092306)
    631675.47 4175986.92
                            238.96900 (06052306)
                                                        631656.09 4175986.77
                                                                                251.92459 (06052306)
                            260.44106 (06052306)
                                                        631617.32 4175986.46
    631636.70 4175986.62
                                                                                263.67736 (06052306)
    631597.94 4175986.31
                            263.58086 (06110304)
                                                        631578.55 4175986.16
                                                                                265.07129 (06110304)
                            266.10422 (06062806)
                                                                                280.07187 (06062806)
    631559.17 4175986.01
                                                        631539.79 4175985.86
    631520.40 4175985.71
                            286.30142 (06062806)
                                                                                285.05345 (06062806)
                                                        631501.02 4175985.56
                            351.94602 (06062806)
                                                        631462.25 4175985.25
                                                                                407.65452 (07092304)
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    631442.87 4175985.10
                            413.61450 (06081406)
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                                                                                401.80937 (06081406)
    631404.10 4175984.80
                            384.09634 (06080603)
                                                        631384.72 4175984.65
                                                                                371.02679 (06080603)
    631365.34 4175984.50
                            347.22418 (08112318)
                                                        631345.95 4175984.35
                                                                                342.91827 (04111519)
    631326.57 4175984.19
                            320.65689 (04111519)
                                                        631307.19 4175984.04
                                                                                298.50672 (07030418)
    631287.80 4175983.89
                            292.66417 (07080306)
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                                                                                161.14619 (05030118)
                            182.51545 (04101605)
                                                                                223.33788 (06011109)
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    631050.63 4175400.50
                            266.45805 (04012317)
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                            456.17442 (07110617)
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                                                                                464.06581 (06072903)
                            419.90802 (05072902)
                                                                                322.09793 (04082001)
    631050.63 4175800.50
                                                        631050.63 4175900.50
                            240.04811 (04082205)
                                                                                199.96954 (04101820)
    631050.63 4176000.50
                                                        631050.63 4176100.50
                                                                                198.03194 (06102817)
                            156.62904 (07100818)
                                                        631150.63 4175200.50
    631150.63 4175100.50
    631150.63 4175300.50
                            227.52524 (06102817)
                                                        631150.63 4175400.50
                                                                                269.16906 (06011109)
  *** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-
977GSBU)\Documents\HRA\Tracy C ***
                                        12/13/23
*** AERMET - VERSION 18081 *** ***
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                                                               PAGE 197
*** MODELOPTs: CONC ELEV RURAL ADJ U*
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*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:

INCLUDING SOURCE(S): STCK13

# *** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3

CONC (YYMMDDHH) X-COORD (M) Y-COORD (M) X-COORD (M) Y-COORD (M) **CONC** (YYMMDDHH) 684.40602 (08081806) 631150.63 4175500.50 420.36126 (06011109) 631150.63 4175600.50 631150.63 4175800.50 631150.63 4175700.50 662.66087 (05030402) 704.85733 (07080103) 631150.63 4175900.50 409.00292 (05081406) 631150.63 4176000.50 250.53802 (07090905) 631150.63 4176100.50 216.10162 (08091907) 631250.63 4175100.50 155.08420 (08081805) 631250.63 4175200.50 180.34983 (08081805) 631250.63 4175300.50 215.56152 (08081805) 275.34706 (07100818) 631250.63 4175500.50 223.69661 (04101605) 631250.63 4175400.50 631250.63 4175600.50 440.78266 (05111717) 631250.63 4175700.50 1357.43930 (06092418) 631250.63 4175800.50 431.45443 (05042719) 631250.63 4175900.50 306.16963 (07030418) 258.52356 (05112506) 631250.63 4176000.50 631250.63 4176100.50 209.26216 (07080306) 631350.63 4175100.50 162.53312 (05110722) 631350.63 4175200.50 184.44077 (05110722) 631350.63 4175300.50 216.39112 (05110722) 322.43599 (04102617) 631350.63 4175400.50 631350.63 4175500.50 135.61166 (08081805) 631350.63 4175600.50 168.26553 (07102905) 631350.63 4175700.50 975.26229 (06092418) 631350.63 4175800.50 179.18435 (06110304) 631350.63 4175900.50 155.90799 (06081406) 631350.63 4176000.50 313.85549 (04111519) 631350.63 4176100.50 210.67392 (04111519) 631450.63 4175100.50 162.43166 (04102617) 631450.63 4175200.50 186.53797 (08102618) 631450.63 4175300.50 219.74879 (05011817) 377.80303 (05011817) 254.97785 (05051824) 631450.63 4175400.50 631450.63 4175500.50 386.27834 (06052002) 859.23577 (08091903) 631450.63 4175600.50 631450.63 4175700.50 375.34495 (06102818) 631450.63 4175800.50 631450.63 4175900.50 254.55632 (06110304) 631450.63 4176000.50 352.58206 (06081406) 631450.63 4176100.50 216.03505 (07102901) 164.95087 (05011817) 178.98755 (08071406) 631550.63 4175100.50 631550.63 4175200.50 631550.63 4175300.50 213.37851 (08031018) 631550.63 4175400.50 259.79590 (04081924) 581.57729 (07102905) 582.01649 (04110905) 631550.63 4175500.50 631550.63 4175600.50 631550.63 4175700.50 599.92621 (05020803) 631550.63 4175800.50 502.81508 (06111908) 631550.63 4175900.50 515.21629 (08040221) 631550.63 4176000.50 270.01741 (06062806) 631550.63 4176100.50 206.15938 (04050604) 631650.63 4175100.50 156.34854 (08090903) 631650.63 4175200.50 181.54987 (08031018) 631650.63 4175300.50 198.47947 (08090905) 243.01394 (05011417) 278.05842 (08021718) 631650.63 4175400.50 631650.63 4175500.50 366.74238 (04110905) 446.02471 (08091903) 631650.63 4175600.50 631650.63 4175700.50 631650.63 4175800.50 357.06752 (08010919) 631650.63 4175900.50 294.06625 (05072806) 631650.63 4176000.50 251.70117 (06052306) 631650.63 4176100.50 210.19761 (06062806) 157.77745 (06052001) 167.28632 (08090905) 631750.63 4175100.50 631750.63 4175200.50 197.17723 (05011417) 631750.63 4175300.50 631750.63 4175400.50 222.37179 (07102905) 631750.63 4175500.50 263.14662 (08110218) 631750.63 4175600.50 310.99910 (04101518) 631750.63 4175700.50 358.54499 (08091903) 631750.63 4175800.50 309.89173 (08040222) 631750.63 4175900.50 267.05934 (06102818) 631750.63 4176000.50 225.19720 (07092306) 631750.63 4176100.50 201.58889 (06052306) 631850.63 4175100.50 149.64104 (05011317) 171.66839 (08090519) 190.51158 (07102905) 631850.63 4175200.50 631850.63 4175300.50 631850.63 4175400.50 198.06484 (06052002) 631850.63 4175500.50 232.17847 (07080303) 631850.63 4175600.50 631850.63 4175700.50 314.71908 (08091903) 267.16381 (06100506) *** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-

977GSBU)\Documents\HRA\Tracy C *** 12/13/23

*** AERMET - VERSION 18081 *** ***

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*** MODELOPTs: CONC ELEV RURAL ADJ U*

STCK13 ***

INCLUDING SOURCE(S): STCK13

### *** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3

```
X-COORD (M) Y-COORD (M)
                                  CONC
                                          (YYMMDDHH)
                                                          X-COORD (M) Y-COORD (M)
                                                                                                CONC
(YYMMDDHH)
    631850.63 4175800.50
                           274.48405 (07102907)
                                                       631850.63 4175900.50
                                                                              244.76061 (06111908)
    631850.63 4176000.50
                           211.53043 (05072806)
                                                       631850.63 4176100.50
                                                                               184.73858 (07092306)
    631950.63 4175100.50
                           153.54648 (05011417)
                                                       631950.63 4175200.50
                                                                               164.61564 (05110817)
    631950.63 4175300.50
                           170.31968 (08022004)
                                                                               202.57448 (06052002)
                                                       631950.63 4175400.50
    631950.63 4175500.50
                           210.68352 (04081304)
                                                       631950.63 4175600.50
                                                                               240.02773 (07102803)
    631950.63 4175700.50
                           272.15360 (08091903)
                                                       631950.63 4175800.50
                                                                              234.69784 (07102907)
                           214.78795 (04041919)
                                                                              203.06590 (06102818)
    631950.63 4175900.50
                                                       631950.63 4176000.50
                           177.97089 (07112517)
                                                                               146.03914 (05110817)
    631950.63 4176100.50
                                                       632050.63 4175100.50
    632050.63 4175200.50
                           152.81085 (07102905)
                                                       632050.63 4175300.50
                                                                               160.29550 (08021718)
    632050.63 4175400.50
                           176.89686 (04021502)
                                                       632050.63 4175500.50
                                                                               200.79512 (04110905)
                           220.39134 (04030118)
                                                                               229.10673 (08091903)
    632050.63 4175600.50
                                                       632050.63 4175700.50
    632050.63 4175800.50
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                                                                               194.83870 (08010919)
    632050.63 4176000.50
                           195.54324 (06111908)
                                                                               165.72948 (05072806)
                                                       632050.63 4176100.50
  *** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-
977GSBU)\Documents\HRA\Tracy C ***
                                       12/13/23
*** AERMET - VERSION 18081 *** ***
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                                                             PAGE 199
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*** MODELOPTs: CONC ELEV RURAL ADJ U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:

 $\mathbb{C}$ 

STCK14 ***

**INCLUDING SOURCE(S):** STCK14

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3

X-COORD ( (YYMMDDHH	(M) Y-COORD )	(M) C	ONC	(YYM	IMDDHH)	X-COORD (M)	Y-COORD (M	(I) CONC
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632192.15	4174956.32	110.64414	(0511	0817)	632420.62	4175510.15	143.34112 (0.	5011522)
632418.97	4175552.92	156.30468	(0501	1522)	631187.00	4175727.00	285.88054 (0	7090905)
631166.00	4175729.00	566.62997	7 (0408	32001)	631121.00	4175719.00	536.38283 (0-	4082001)
631035.00	4174830.00	175.79086	6 (0610	2817)	631106.00	4174825.00	140.70116 (0	7100818)
631937.00	4174528.00	81.29892	(0809	0903)	631322.00	4174522.00	88.45223 (07)	030618)
629800.63	4173850.44	15.91514	(0401)	2317)	630150.63	4173850.44	44.95998 (06	011109)
630500.63	4173850.44	31.74287	(0601	1021)	630850.63	4173850.44	44.64434 (08	022002)
631200.63	4173850.44	32.25873	(0512	2422)	631550.63	4173850.44	61.31504 (04	102617)
631900.63	4173850.44	49.02205	(0701	1417)	632250.63	4173850.44	48.99371 (04	122822)
632600.63	4173850.44	48.28390	(0501	1521)	632950.63	4173850.44	44.84154 (04	022018)
633300.63	4173850.44	32.13018	(0803)	0618)	629800.63	4174200.44	22.95362 (05	111717)
630150.63	4174200.44	48.91465	(0401)	2317)	630500.63	4174200.44	99.11782 (06	011109)
630850.63	4174200.44	92.33887	(0610	2817)	631200.63	4174200.44	56.17910 (05)	050803)
631550.63	4174200.44	86.89856	(0410)	2617)	631900.63	4174200.44	77.29540 (08)	071406)

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                            44.06875 (05011417)
                                                       633300.63 4174200.44
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                            85.98378 (08121017)
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                                                                               108.85860 (06102817)
                            94.40579 (05050803)
                                                                               104.21987 (04102617)
    631200.63 4174550.44
                                                       631550.63 4174550.44
    631900.63 4174550.44
                            83.46955 (04122822)
                                                       632250.63 4174550.44
                                                                               82.10810 (05011317)
    632600.63 4174550.44
                            65.71176 (05110817)
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                                                                               53.91255 (05020802)
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                            46.34001 (06120617)
                                                       629800.63 4174900.44
                                                                               57.34589 (06121217)
    630150.63 4174900.44
                            98.78785 (06120217)
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                                                                               124.26531 (04041824)
    630850.63 4174900.44
                            193.63845 (06011109)
                                                       631200.63 4174900.44
                                                                               158.01750 (08081805)
    631550.63 4174900.44
                            134.02881 (05011817)
                                                       631900.63 4174900.44
                                                                               119.79411 (04081924)
                            104.51633 (05110817)
                                                                                84.78919 (06120617)
    632250.63 4174900.44
                                                       632600.63 4174900.44
    632950.63 4174900.44
                            67.79979 (05021801)
                                                       633300.63 4174900.44
                                                                               51.06162 (07010217)
    629800.63 4175250.44
                            69.07205 (04022207)
                                                       630150.63 4175250.44
                                                                               110.66051 (06041224)
    630500.63 4175250.44
                            151.93845 (06121217)
                                                       630850.63 4175250.44
                                                                               248.83378 (08081806)
                           282.27111 (06102817)
                                                                               209.11937 (08031018)
    631200.63 4175250.44
                                                       631550.63 4175250.44
    631900.63 4175250.44
                           164.69701 (08022004)
                                                       632250.63 4175250.44
                                                                               124.78698 (07080303)
                            103.78116 (07020218)
    632600.63 4175250.44
                                                       632950.63 4175250.44
                                                                                72.35108 (06011618)
    633300.63 4175250.44
                            48.49154 (06011618)
                                                       629800.63 4175600.44
                                                                               71.79111 (05122618)
    630150.63 4175600.44
                            108.50678 (05122618)
                                                       630500.63 4175600.44
                                                                               167.11334 (05122618)
    630850.63 4175600.44
                           293.79500 (06072903)
                                                       631200.63 4175600.44
                                                                               1490.94014 (05030320)
    631550.63 4175600.44
                           632.59218 (04030118)
                                                       631900.63 4175600.44
                                                                               291.81662 (08091903)
                           180.93605 (06011619)
                                                       632600.63 4175600.44
                                                                               123.96990 (06011619)
    632250.63 4175600.44
    632950.63 4175600.44
                            76.29603 (06011619)
                                                       633300.63 4175600.44
                                                                               48.03815 (06011619)
    629800.63 4175950.44
                            72.21403 (06011024)
                                                       630150.63 4175950.44
                                                                               113.00328 (06011217)
  *** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-
977GSBU)\Documents\HRA\Tracy C ***
                                       12/13/23
                                                                           ***
*** AERMET - VERSION 18081 *** ***
                                                                                  15:02:10
                                                              PAGE 200
*** MODELOPTs: CONC ELEV RURAL ADJ U*
               *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:
STCK14 ***
                 INCLUDING SOURCE(S):
                                           STCK14
                       *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                     ** CONC OF OTHER IN MICROGRAMS/M**3
                                                                              **
   X-COORD (M) Y-COORD (M)
                                  CONC
                                                                 X-COORD (M) Y-COORD (M)
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977GSBU)\Documents\HRA\Tracy C ***
                                       12/13/23
                                                                           ***
*** AERMET - VERSION 18081 *** ***
                                                                                  15:02:10
                                                              PAGE 201
*** MODELOPTs: CONC ELEV RURAL ADJ U*
               *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:
STCK14 ***
                 INCLUDING SOURCE(S):
                                           STCK14
                       *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                     ** CONC OF OTHER IN MICROGRAMS/M**3
   X-COORD (M) Y-COORD (M)
                                                                X-COORD (M) Y-COORD (M)
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                                           (YYMMDDHH)
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  *** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-
977GSBU)\Documents\HRA\Tracy C ***
                                       12/13/23
                                                                           ***
*** AERMET - VERSION 18081 *** ***
                                                                                  15:02:10
                                                              PAGE 202
*** MODELOPTS: CONC ELEV RURAL ADJ U*
               *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:
STCK14 ***
                 INCLUDING SOURCE(S):
                                            STCK14
                        *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                     ** CONC OF OTHER IN MICROGRAMS/M**3
                                   CONC
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   X-COORD (M) Y-COORD (M)
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977GSBU)\Documents\HRA\Tracy C ***
                                       12/13/23
*** AERMET - VERSION 18081 *** ***
                                                                                  15:02:10
                                                              PAGE 203
*** MODELOPTS: CONC ELEV RURAL ADJ U*
               *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:
STCK14 ***
                                           STCK14
                 INCLUDING SOURCE(S):
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                                                       631250.63 4175900.50
                                                                               266.01209 (07030418)
    631250.63 4176000.50
                           215.43819 (07080306)
                                                       631250.63 4176100.50
                                                                               181.57309 (07080306)
    631350.63 4175100.50
                           180.87872 (05110722)
                                                       631350.63 4175200.50
                                                                               208.92843 (05110722)
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631350.63 4175400.50

374.59250 (04102617)

255.81619 (04102617)

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                           335.29276 (08121017)
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                                                       631350.63 4175800.50
                           142.69203 (04020106)
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                                                       631350.63 4176000.50
                                                                               282.60761 (04111519)
                           193.30177 (04111519)
    631350.63 4176100.50
                                                       631450.63 4175100.50
                                                                               174.40644 (08102618)
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                                                                               239.45479 (08071406)
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                           384.36143 (06052001)
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                                                                               327.94785 (06052002)
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                           840.63242 (08091903)
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                                                                               372.79424 (05072102)
                           218.16544 (06110304)
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                                                       631450.63 4175900.50
                                                                               215.77272 (06081406)
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                                                       631550.63 4175200.50
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                                                                               281.89949 (07102905)
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    631550.63 4175700.50
                           472.47426 (06111908)
                                                       631550.63 4175800.50
                                                                               332.40785 (07092306)
                           308.22779 (05011319)
                                                                               235.10554 (04050604)
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                                                       631550.63 4176000.50
    631550.63 4176100.50
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                           176.49873 (04081924)
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    631650.63 4175400.50
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                                                                               344.55050 (04110905)
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                                                                               175.80626 (08090519)
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                                                                               238.45282 (08110218)
                           293.79975 (04101518)
                                                                               356.60097 (08091903)
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                                                       631750.63 4175600.50
    631750.63 4175700.50
                           317.16828 (08040222)
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                                                                               278.00816 (06102818)
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                           237.55436 (07092306)
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                                                                               217.31461 (06052306)
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                                                                               183.94978 (06052002)
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                                                       631850.63 4175300.50
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  *** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-
977GSBU)\Documents\HRA\Tracy C ***
                                       12/13/23
*** AERMET - VERSION 18081 *** ***
                                                                                  15:02:10
                                                              PAGE 204
*** MODELOPTs: CONC ELEV RURAL ADJ U*
               *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:
STCK14 ***
                 INCLUDING SOURCE(S):
                                           STCK14
                       *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                     ** CONC OF OTHER IN MICROGRAMS/M**3
   X-COORD (M) Y-COORD (M)
                                  CONC
                                                                X-COORD (M) Y-COORD (M)
                                           (YYMMDDHH)
                                                                                                CONC
(YYMMDDHH)
                                                                               218.03401 (05072806)
    631850.63 4175800.50
                           253.96664 (06111908)
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                           191.38715 (07092306)
                                                                               179.24717 (06052306)
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                                                       631850.63 4176100.50
    631950.63 4175100.50
                           147.22689 (05110817)
                                                       631950.63 4175200.50
                                                                               152.68688 (08022004)
    631950.63 4175300.50
                           186.29840 (06052002)
                                                       631950.63 4175400.50
                                                                               199.01312 (04110905)
    631950.63 4175500.50
                           227.57082 (07102803)
                                                       631950.63 4175600.50
                                                                               270.57078 (08091903)
                           238.04631 (07102907)
                                                                               219.61138 (04041919)
    631950.63 4175700.50
                                                       631950.63 4175800.50
    631950.63 4175900.50
                           208.14389 (06102818)
                                                       631950.63 4176000.50
                                                                               187.04114 (07112517)
    631950.63 4176100.50
                           162.15423 (08040221)
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                                                                               135.40663 (07102905)
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                           141.77386 (08021718)
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                                                                               161.53423 (04021502)
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632050.63 4175500.50

208.65743 (04030118)

189.72660 (04110905)

632050.63 4175400.50

632050.63 4175600.50 227.63466 (08091903) 632050.63 4175700.50 204.35500 (08010920) 632050.63 4175800.50 198.27763 (08010919) 632050.63 4175900.50 200.27364 (06111908) 632050.63 4176000.50 174.59725 (05072806) 632050.63 4176100.50 156.48575 (07092306) *** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-977GSBU)\Documents\HRA\Tracy C *** 12/13/23 *** AERMET - VERSION 18081 *** *** 15:02:10

**PAGE 205** 

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:

STCK2 ***

INCLUDING SOURCE(S): STCK2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 *

CONC X-COORD (M) Y-COORD (M) X-COORD (M) Y-COORD (M) (YYMMDDHH) **CONC** (YYMMDDHH) 632121.21 4174952.36 110.34332 (08071406) 632304.44 4174354.52 77.52975 (05011817) 632192.15 4174956.32 104.03292 (08090903) 192.21549 (04110905) 632420.62 4175510.15 632418.97 4175552.92 222.47039 (04101518) 631187.00 4175727.00 240.29052 (06072903) 631166.00 4175729.00 235.12857 (06072903) 631121.00 4175719.00 229.25874 (06072903) 631035.00 4174830.00 116.83999 (04012317) 631106.00 4174825.00 105.31427 (08121017) 631937.00 4174528.00 91.84254 (04102617) 631322.00 4174522.00 91.64272 (06102817) 12.18079 (06121421) 24.81704 (04012317) 629800.63 4173850.44 630150.63 4173850.44 630500.63 4173850.44 40.57160 (06011109) 47.70377 (05012117) 630850.63 4173850.44 631200.63 4173850.44 49.91161 (06102817) 631550.63 4173850.44 48.20295 (05050803) 631900.63 4173850.44 45.19160 (05021805) 632250.63 4173850.44 49.03133 (04122824) 632600.63 4173850.44 52.36812 (08071406) 632950.63 4173850.44 46.88939 (08031018) 633300.63 4173850.44 42.04029 (05011520) 629800.63 4174200.44 20.38556 (08081806) 34.27915 (06121421) 630150.63 4174200.44 630500.63 4174200.44 62.77403 (04012317) 630850.63 4174200.44 76.84747 (06011109) 631200.63 4174200.44 72.60890 (06102817) 66.84577 (08081805) 64.99409 (04122823) 631550.63 4174200.44 631900.63 4174200.44 632250.63 4174200.44 61.77387 (05011817) 632600.63 4174200.44 56.36260 (04122822) 47.76562 (05011317) 632950.63 4174200.44 54.06086 (05011520) 633300.63 4174200.44 629800.63 4174550.44 43.05263 (06120217) 630150.63 4174550.44 49.43436 (07020624) 630500.63 4174550.44 71.05610 (06121421) 630850.63 4174550.44 87.29869 (04012317) 631200.63 4174550.44 86.87332 (04101605) 631550.63 4174550.44 86.68324 (08081805) 631900.63 4174550.44 87.60307 (04102617) 632250.63 4174550.44 87.37919 (08071406) 632600.63 4174550.44 78.44463 (08031018) 632950.63 4174550.44 65.01473 (05011317) 633300.63 4174550.44 55.44367 (06011617) 629800.63 4174900.44 38.97531 (05122617) 630150.63 4174900.44 59.53623 (07111023) 630500.63 4174900.44 86.35384 (04011017) 630850.63 4174900.44 101.98718 (04041824) 631200.63 4174900.44 116.93669 (08121017) 123.30540 (06102817) 117.59046 (04102617) 631550.63 4174900.44 631900.63 4174900.44 101.67120 (08090903) 632250.63 4174900.44 632600.63 4174900.44 89.89947 (05011417) 72.22591 (04012318) 632950.63 4174900.44 633300.63 4174900.44 64.48153 (06120617) 47.62676 (04022207) 629800.63 4175250.44 630150.63 4175250.44 81.38154 (04022207) 630850.63 4175250.44 630500.63 4175250.44 96.11985 (07110617) 125.81294 (04041822) 631200.63 4175250.44 153.28803 (08081806) 631550.63 4175250.44 252.40815 (07122718) 186.91508 (08102618) 631900.63 4175250.44 632250.63 4175250.44 138.55179 (05051824) 632600.63 4175250.44 114.46753 (08021718) 632950.63 4175250.44 87.94958 (06121018) 633300.63 4175250.44 71.62514 (07010217) 629800.63 4175600.44 67.27916 (04121304) 630150.63 4175600.44 95.09408 (04121304) 630500.63 4175600.44 122.32694 (04121304) 153.91986 (05030403) 630850.63 4175600.44 631200.63 4175600.44 219.16732 (05030401)

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    632250.63 4175600.44
                          276.40808 (04101518)
                                                     632600.63 4175600.44
    632950.63 4175600.44
                          122.52443 (04030118)
                                                     633300.63 4175600.44
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    629800.63 4175950.44
                           50.87601 (07042002)
                                                    630150.63 4175950.44
                                                                            71.22641 (07042002)
  *** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-
977GSBU)\Documents\HRA\Tracy C ***
                                     12/13/23
*** AERMET - VERSION 18081 *** ***
                                                                              15:02:10
                                                           PAGE 206
*** MODELOPTS: CONC ELEV RURAL ADJ U*
               *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:
```

**

STCK2

INCLUDING SOURCE(S): STCK2

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3

X-COORD (M) Y-COORD (M) CONC (YYMMDDHH) X-COORD (M) Y-COORD (M) **CONC** (YYMMDDHH) 105.14378 (06011024) 630850.63 4175950.44 133.37811 (06121423) 630500.63 4175950.44 631200.63 4175950.44 167.43232 (08081602) 631550.63 4175950.44 202.17726 (05081406) 277.42239 (06081406) 631900.63 4175950.44 632250.63 4175950.44 235.04530 (05072806) 632600.63 4175950.44 176.23938 (04041919) 114.29164 (06012918) 632950.63 4175950.44 633300.63 4175950.44 80.69137 (06121320) 629800.63 4176300.44 52.07910 (06011217) 630150.63 4176300.44 58.37232 (05030321) 630500.63 4176300.44 79.66491 (05110619) 97.68985 (07120623) 630850.63 4176300.44 631200.63 4176300.44 109.71158 (04110906) 130.08869 (08091907) 140.21872 (05072006) 631550.63 4176300.44 631900.63 4176300.44 177.65577 (06062806) 632600.63 4176300.44 119.90280 (04121019) 632250.63 4176300.44 86.31651 (05020806) 75.39878 (05020719) 632950.63 4176300.44 633300.63 4176300.44 629800.63 4176650.44 43.04008 (07120622) 630150.63 4176650.44 57.13103 (06122121) 66.92750 (04021520) 630500.63 4176650.44 630850.63 4176650.44 72.27541 (04110906) 631200.63 4176650.44 85.59548 (04083005) 631550.63 4176650.44 92.08034 (05112506) 99.21152 (04111519) 632250.63 4176650.44 105.67726 (06081406) 631900.63 4176650.44 632600.63 4176650.44 114.68716 (06062806) 632950.63 4176650.44 81.89104 (06052306) 633300.63 4176650.44 62.11393 (07120406) 629800.63 4177000.44 40.15445 (04021520) 53.52987 (04010518) 630150.63 4177000.44 41.32994 (04021521) 630500.63 4177000.44 59.50487 (04120908) 69.65462 (08091907) 630850.63 4177000.44 631200.63 4177000.44 631550.63 4177000.44 69.42066 (07080306) 631900.63 4177000.44 69.66721 (04111519) 632250.63 4177000.44 69.68034 (07102901) 632600.63 4177000.44 66.25374 (06010521) 632950.63 4177000.44 61.65074 (06062806) 633300.63 4177000.44 51.66567 (06122320) 629800.63 4177350.44 36.40890 (04021521) 630150.63 4177350.44 40.73826 (04010518) 44.32573 (04120908) 49.44359 (08122718) 630500.63 4177350.44 630850.63 4177350.44 59.65982 (08091907) 53.56000 (06020124) 631200.63 4177350.44 631550.63 4177350.44 53.10392 (08122723) 55.69140 (04121819) 631900.63 4177350.44 632250.63 4177350.44 632600.63 4177350.44 54.78202 (06122319) 632950.63 4177350.44 53.86790 (06062806) 161.61186 (06062806) 633300.63 4177350.44 42.58099 (08122905) 631670.70 4175493.59 631669.80 4175641.41 560.94189 (06102818) 631665.32 4175796.39 142.38797 (06121423) 631417.17 4175826.85 357.10752 (05111617) 631417.17 4175673.66 509.17733 (05030401) 631422.55 4175484.63 246.00202 (06051905) 631268.42 4175983.74 166.18425 (06033021) 631275.69 4175523.99 227.75167 (07110617) 631345.65 4175419.50 226.66808 (05072102) 631384.72 4175441.30 218.64546 (05072102) 631491.93 4175442.21 204.62590 (05072102) 207.97627 (05111717) 264.63482 (05072102) 631491.93 4175414.95 631385.63 4175413.14 631358.37 4175395.87 223.14629 (05072102) 631409.25 4175336.81 240.96151 (05111717) 631567.35 4175235.96 257.37015 (04101605) 631756.33 4175028.80 121.12217 (07030618)

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977GSBU)\Documents\HRA\Tracy C ***
                                       12/13/23
*** AERMET - VERSION 18081 *** ***
                                                                                  15:02:10
                                                              PAGE 207
*** MODELOPTs: CONC ELEV RURAL ADJ U*
               *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:
STCK2
                 INCLUDING SOURCE(S):
                                            STCK2
                       *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                     ** CONC OF OTHER IN MICROGRAMS/M**3
   X-COORD (M) Y-COORD (M)
                                   CONC
                                           (YYMMDDHH)
                                                                X-COORD (M) Y-COORD (M)
                                                                                                 CONC
(YYMMDDHH)
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                                                                               271.19108 (06041223)
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                           264.65259 (06041223)
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                                                                               248.45493 (05030403)
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                           234.82019 (07110617)
                                                       631305.67 4175479.21
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    631371.70 4175434.03
                           267.94880 (05072102)
                                                       631402.59 4175441.45
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                           214.92527 (05072102)
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                                                       631371.09 4175381.11
                                                                               234.56071 (08081806)
                           240.07521 (08081806)
                                                                               244.55722 (05111717)
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                                                       631396.53 4175351.58
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    631456.68 4175306.56
                           255.44886 (05111717)
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                                                                               262.68653 (06041020)
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                           238.54600 (06041020)
                                                        631504.11 4175276.30
                                                                               247.34391 (04012317)
    631519.92 4175266.22
                           214.58928 (04012317)
                                                       631535.73 4175256.13
                                                                               247.56279 (08121017)
    631551.54 4175246.05
                           249.57904 (07122718)
                                                       631579.95 4175222.15
                                                                               242.40435 (04101605)
                           231.82947 (06102817)
                                                                               214.23492 (06102817)
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  *** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-
977GSBU)\Documents\HRA\Tracy C ***
                                       12/13/23
*** AERMET - VERSION 18081 *** ***
                                                                                  15:02:10
                                                              PAGE 208
*** MODELOPTS: CONC ELEV RURAL ADJ U*
               *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:
        ***
STCK2
                 INCLUDING SOURCE(S):
                                           STCK2
                       *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                     ** CONC OF OTHER IN MICROGRAMS/M**3
                                   CONC
                                                                X-COORD (M) Y-COORD (M)
   X-COORD (M) Y-COORD (M)
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(YYMMDDHH)
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977GSBU)\Documents\HRA\Tracy C ***
                                       12/13/23
*** AERMET - VERSION 18081 *** ***
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                                                              PAGE 209
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*** MODELOPTs: CONC ELEV RURAL ADJ U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:

 $\mathbf{C}$ 

*** STCK2

INCLUDING SOURCE(S): STCK2

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3

X-COORD (YYMMDDHH	(M) Y-COORD	(M) C(	ONC	(YYMMI	DDHH)	X-COORD (M)	Y-COORD	(M)	CONC
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631250.63	4175200.50	156.17695	(0511	1717)	631250.63	4175300.50	166.79158	(050721	.02)
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631250.63	4175600.50	236.58469	(0503	0401)	631250.63	4175700.50	263.31559	(060729	903)
631250.63	4175800.50	215.54889	(0604	1503)	631250.63	4175900.50	179.72370	(050517	['] 24)
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631350.63	4175300.50	193.01944	(0511	1717)	631350.63	4175400.50	223.65641	(050721	.02)
631350.63	4175500.50	320.14915	(0404	1823)	631350.63	4175600.50	322.09864	(040418	321)
631350.63	4175700.50	317.43476	(0607	2903)	631350.63	4175800.50	248.60729	(060415	503)
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631450.63	4175400.50	212.84166	(0511	1717)	631450.63	4175500.50	238.91859	(060519	905)
631450.63	4175600.50	327.43125	(0612	1422)	631450.63	4175700.50	515.11782	(060729	903)
631450.63	4175800.50	506.64628	(0612	1423)	631450.63	4175900.50	337.82978	(060330	)21)
631450.63	4176000.50	180.92480	(0708	2502)	631450.63	4176100.50	151.93878	(040822	205)
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631550.63	4175300.50	145.82795	(0812	1017)	631550.63	4175400.50	171.18441	(040123	(17)
631550.63	4175500.50	198.74974	(0507	2102)	631550.63	4175600.50	262.76390	(061119	908)
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977GSBU)\Documents\HRA\Tracy C ***
                                    12/13/23
*** AERMET - VERSION 18081 *** ***
                                                                           15:02:10
                                                         PAGE 210
*** MODELOPTs: CONC ELEV RURAL ADJ U*
              *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:
STCK2
                INCLUDING SOURCE(S):
                                        STCK2
                     *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                   ** CONC OF OTHER IN MICROGRAMS/M**3
  X-COORD (M) Y-COORD (M)
                                CONC
                                       (YYMMDDHH)
                                                           X-COORD (M) Y-COORD (M)
                                                                                         CONC
(YYMMDDHH)
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*** AERMET - VERSION 18081 *** ***
                                                                     ***
                                                                           15:02:10
                                                         PAGE 211
*** MODELOPTs: CONC ELEV RURAL ADJ U*
              *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:
STCK3
                INCLUDING SOURCE(S):
                                        STCK3
                     *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                   ** CONC OF OTHER IN MICROGRAMS/M**3
  X-COORD (M) Y-COORD (M)
                                CONC (YYMMDDHH)
                                                           X-COORD (M) Y-COORD (M)
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(YYMMDDHH)
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977GSBU)\Documents\HRA\Tracy C ***
                                        12/13/23
*** AERMET - VERSION 18081 *** ***
                                                                           ***
                                                                                  15:02:10
                                                              PAGE 212
*** MODELOPTs: CONC ELEV RURAL ADJ U*
               *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:
        ***
STCK3
                 INCLUDING SOURCE(S):
                                            STCK3
                       *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                     ** CONC OF OTHER IN MICROGRAMS/M**3
   X-COORD (M) Y-COORD (M)
                                                                 X-COORD (M) Y-COORD (M)
                                   CONC
                                           (YYMMDDHH)
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977GSBU)\Documents\HRA\Tracy C ***
                                        12/13/23
*** AERMET - VERSION 18081 *** ***
                                                                           ***
                                                                                   15:02:10
                                                              PAGE 213
*** MODELOPTs: CONC ELEV RURAL ADJ U*
                *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:
        ***
STCK3
                 INCLUDING SOURCE(S):
                                            STCK3
                        *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                     ** CONC OF OTHER IN MICROGRAMS/M**3
   X-COORD (M) Y-COORD (M)
                                   CONC
                                           (YYMMDDHH)
                                                                 X-COORD (M) Y-COORD (M)
                                                                                                 CONC
(YYMMDDHH)
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  *** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-
977GSBU)\Documents\HRA\Tracy C ***
                                        12/13/23
*** AERMET - VERSION 18081 *** ***
                                                                                   15:02:10
                                                               PAGE 214
*** MODELOPTs: CONC ELEV RURAL ADJ U*
                *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:
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                 INCLUDING SOURCE(S):
                                            STCK3
                        *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                     ** CONC OF OTHER IN MICROGRAMS/M**3
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X-COORD (M) Y-COORD (M)

**CONC** 

(YYMMDDHH)

CONC

X-COORD (M) Y-COORD (M)

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                                                                                166.06738 (04082001)
    631287.80 4175983.89
                            167.20640 (04082001)
                                                        631050.63 4175100.50
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                            165.96259 (04041821)
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                                                        631050.63 4175700.50
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                            170.93429 (06121423)
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                                                                                159.73258 (05072902)
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                            139.34741 (06033021)
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                            162.21877 (07110617)
  *** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-
977GSBU)\Documents\HRA\Tracy C ***
                                        12/13/23
*** AERMET - VERSION 18081 *** ***
                                                                                   15:02:10
                                                               PAGE 215
*** MODELOPTs: CONC ELEV RURAL ADJ U*
                *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:
STCK3
                  INCLUDING SOURCE(S):
                                            STCK3
                        *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                     ** CONC OF OTHER IN MICROGRAMS/M**3
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X-COORD (M) Y-COORD (M)
                                  CONC
                                           (YYMMDDHH)
                                                                X-COORD (M) Y-COORD (M)
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  *** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-
977GSBU)\Documents\HRA\Tracy C *** 12/13/23
*** AERMET - VERSION 18081 *** ***
                                                                                 15:02:10
                                                             PAGE 217
*** MODELOPTs: CONC ELEV RURAL ADJ U*
               *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:
STCK4
                 INCLUDING SOURCE(S):
                                           STCK4
                       *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                    ** CONC OF OTHER IN MICROGRAMS/M**3
                                                                             **
   X-COORD (M) Y-COORD (M)
                                  CONC
                                           (YYMMDDHH)
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                                                                                                CONC
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                                                                              19.23206 (04012317)
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                            26.13340 (06011109)
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977GSBU)\Documents\HRA\Tracy C ***
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*** AERMET - VERSION 18081 *** ***
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*** MODELOPTs: CONC ELEV RURAL ADJ U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:

STCK4

INCLUDING SOURCE(S): STCK4

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3

X-COORD (M) Y-COORD (M) X-COORD (M) Y-COORD (M) CONC (YYMMDDHH) **CONC** (YYMMDDHH) 630500.63 4175950.44 94.64335 (05111617) 630850.63 4175950.44 130.04929 (06033021) 271.87746 (07090904) 631200.63 4175950.44 152.78614 (04082001) 631550.63 4175950.44 631900.63 4175950.44 186.83423 (08112520) 632250.63 4175950.44 142.20619 (06110304) 632600.63 4175950.44 121.59629 (05072806) 632950.63 4175950.44 104.13076 (06111908) 633300.63 4175950.44 66.22537 (05122401) 629800.63 4176300.44 57.38642 (07120622) 60.15479 (05110619) 84.16077 (06122121) 630150.63 4176300.44 630500.63 4176300.44 630850.63 4176300.44 99.53355 (07080103) 631200.63 4176300.44 114.94868 (04101820) 631550.63 4176300.44 117.87654 (07071003) 110.72577 (05072006) 631900.63 4176300.44 632250.63 4176300.44 101.84670 (08091905) 632600.63 4176300.44 87.12082 (06110304) 632950.63 4176300.44 69.43601 (07031619) 633300.63 4176300.44 57.92317 (05020806) 51.17657 (06122121) 65.71924 (04021520) 629800.63 4176650.44 630150.63 4176650.44 76.93367 (05112504) 630500.63 4176650.44 73.12721 (04021521) 630850.63 4176650.44 631200.63 4176650.44 85.54231 (07090905) 631550.63 4176650.44 87.66438 (07102902) 631900.63 4176650.44 83.35910 (04111519) 632250.63 4176650.44 77.31849 (05082502) 79.58012 (06062806) 632600.63 4176650.44 632950.63 4176650.44 57.39570 (05021219) 52.24222 (08021808) 40.62102 (04021520) 633300.63 4176650.44 629800.63 4177000.44 58.88957 (04120903) 630150.63 4177000.44 51.55300 (04021521) 630500.63 4177000.44 630850.63 4177000.44 66.19033 (07122917) 631200.63 4177000.44 78.70384 (08091907) 631550.63 4177000.44 67.12957 (07080306) 631900.63 4177000.44 62.94665 (08122723) 632250.63 4177000.44 58.42033 (04021506) 632600.63 4177000.44 53.68517 (06120218) 632950.63 4177000.44 65.01975 (06062806) 633300.63 4177000.44 43.38859 (08021908)

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  *** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-
977GSBU)\Documents\HRA\Tracy C ***
                                       12/13/23
*** AERMET - VERSION 18081 *** ***
                                                                                 15:02:10
                                                              PAGE 219
*** MODELOPTs: CONC ELEV RURAL ADJ U*
               *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:
        ***
STCK4
                 INCLUDING SOURCE(S):
                                           STCK4
                       *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                    ** CONC OF OTHER IN MICROGRAMS/M**3
   X-COORD (M) Y-COORD (M)
                                  CONC
                                           (YYMMDDHH)
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                                                        631866.50 4175027.14
                                                                               171.70794 (04102617)
    631866.16 4175046.76
                           176.62298 (04102617)
                                                       631865.83 4175066.37
                                                                               181.54062 (04102617)
                            186.55571 (04102617)
                                                                               191.65577 (04102617)
    631865.49 4175085.99
                                                       631865.15 4175105.60
                           196.90616 (04102617)
    631864.81 4175125.22
                                                       631864.47 4175144.83
                                                                               202.32173 (04102617)
    631864.13 4175164.45
                           207.95149 (04102617)
                                                       631863.80 4175184.06
                                                                               216.84584 (08102618)
    631863.46 4175203.68
                           229.47307 (08102618)
                                                       631863.12 4175223.29
                                                                               261.68386 (04102617)
    631862.78 4175242.91
                           379.45769 (08102618)
                                                        631862.44 4175262.52
                                                                               388.65887 (08102618)
  *** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-
977GSBU)\Documents\HRA\Tracy C ***
                                       12/13/23
*** AERMET - VERSION 18081 *** ***
                                                                                  15:02:10
                                                              PAGE 220
*** MODELOPTS: CONC ELEV RURAL ADJ U*
               *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:
STCK4
                                           STCK4
                 INCLUDING SOURCE(S):
                       *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                     ** CONC OF OTHER IN MICROGRAMS/M**3
                                                                              **
                                                                X-COORD (M) Y-COORD (M)
   X-COORD (M) Y-COORD (M)
                                  CONC
                                           (YYMMDDHH)
                                                                                                 CONC
(YYMMDDHH)
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                           397.26567 (08102618)
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                                                                               244.93398 (06052001)
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                           283.53596 (06052001)
                                                        631861.09 4175340.98
                                                                               315.50313 (06052001)
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                           336.59058 (06052001)
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                                                                               371.32598 (05051824)
    631860.07 4175399.83
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                                                       631859.73 4175419.44
                                                                               495.93297 (07102905)
    631859.40 4175439.06
                           659.08975 (06052002)
                                                       631859.06 4175458.67
                                                                               836.60609 (06052002)
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                                                        631858.38 4175497.90
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    631858.04 4175517.52
                           948.16867 (07102907)
                                                        631857.70 4175537.13
                                                                               788.81630 (08010919)
    631857.37 4175556.75
                           492.40793 (08010919)
                                                        631857.03 4175576.36
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                           361.83307 (08091906)
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                                                        631856.35 4175615.59
    631856.01 4175635.21
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                                                        631855.67 4175654.82
                                                                               356.06447 (08112318)
                           334.95267 (04111519)
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                                                        631855.00 4175694.05
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                           282.14901 (05020318)
                                                        631854.32 4175733.28
                           255.75843 (05020318)
                                                        631853.64 4175772.51
                                                                               242.35548 (05020318)
    631853.98 4175752.90
                           229.32329 (05020318)
                                                                               216.86497 (05020318)
    631853.30 4175792.13
                                                        631852.97 4175811.74
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631850.26 4175968.66

631811.15 4175987.98

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194.17695 (04020106)

203.41276 (05072006)

191.01829 (05072006)

169.61103 (06052305)

205.05361 (05020318)

197.65627 (05020318)

184.05209 (04020106)

198.38425 (05072006)

162.77099 (05020318)

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631851.27 4175909.82

631850.60 4175949.05

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    631753.00 4175987.52
                           212.21742 (07030418)
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                           219.77310 (07030418)
                                                                               242.13311 (05112506)
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                           250.64398 (05112506)
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                                                       631656.09 4175986.77
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                           253.12855 (07071003)
                                                       631617.32 4175986.46
                                                                               252.50579 (08091907)
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                           248.05589 (06110119)
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                           279.84127 (04083005)
                                                                               259.98078 (04083005)
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                           203.34121 (04083005)
                                                       631462.25 4175985.25
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                           178.64159 (04101820)
                                                       631423.49 4175984.95
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                           164.48299 (04082205)
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    631326.57 4175984.19
                           155.93893 (04110906)
                                                       631307.19 4175984.04
                                                                               155.72057 (07082502)
                           156.93964 (07082502)
                                                                               129.39112 (05030319)
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                                                       631050.63 4175100.50
                           154.65501 (07110617)
    631050.63 4175200.50
                                                       631050.63 4175300.50
                                                                               154.18928 (04041821)
                           179.58261 (07110902)
                                                                               209.67628 (06072903)
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                                                       631050.63 4175500.50
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                                                                               171.18081 (06121423)
    631050.63 4175800.50
                           162.41326 (05072902)
                                                       631050.63 4175900.50
                                                                               144.51345 (06080604)
    631050.63 4176000.50
                           138.72774 (04082001)
                                                                               126.58734 (07080103)
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    631150.63 4175100.50
                           141.31217 (05072102)
                                                       631150.63 4175200.50
                                                                               151.36345 (07110617)
    631150.63 4175300.50
                           162.47903 (04041821)
                                                       631150.63 4175400.50
                                                                               196.17224 (07110902)
  *** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-
977GSBU)\Documents\HRA\Tracy C ***
                                       12/13/23
*** AERMET - VERSION 18081 *** ***
                                                                                  15:02:10
                                                              PAGE 221
*** MODELOPTs: CONC ELEV RURAL ADJ U*
               *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:
        ***
STCK4
                 INCLUDING SOURCE(S):
                                           STCK4
                       *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                     ** CONC OF OTHER IN MICROGRAMS/M**3
   X-COORD (M) Y-COORD (M)
                                  CONC
                                           (YYMMDDHH)
                                                                X-COORD (M) Y-COORD (M)
                                                                                                CONC
(YYMMDDHH)
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                                                                               171.22904 (06033021)
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                           147.71413 (07120623)
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                                                                               140.46772 (04082001)
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                           132.97609 (07082502)
                                                                               143.34395 (05072102)
                                                       631250.63 4175100.50
                                                       631250.63 4175300.50
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    631250.63 4175600.50
                           230.91811 (06041503)
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                                                                               206.97819 (05051724)
                           185.95799 (07102702)
                                                                               170.54550 (04082001)
    631250.63 4175800.50
                                                       631250.63 4175900.50
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                           153.10034 (05111717)
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                                                                               405.40099 (05111617)
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                           253.93809 (08081602)
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                                                                               221.05141 (05081503)
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                           188.13930 (07082502)
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                           141.46963 (04101820)
                                                       631450.63 4175100.50
                                                                               166.12501 (04012317)
    631450.63 4175200.50
                           189.49877 (05111717)
                                                       631450.63 4175300.50
                                                                               258.49375 (06051905)
    631450.63 4175400.50
                           430.27357 (05030401)
                                                       631450.63 4175500.50
                                                                               511.43312 (06072903)
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276.88587 (06033021)

346.15340 (06121423)

631450.63 4175600.50

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                           236.65161 (04082001)
                                                       631450.63 4175900.50
                                                                               236.76580 (07080103)
    631450.63 4176000.50
                           174.01393 (04101820)
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                                                                               143.68846 (04083005)
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                           173.01922 (06011109)
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                           143.92888 (05072102)
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                                                                               119.10461 (07090905)
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                           247.74087 (05112506)
                                                       631650.63 4176100.50
                                                                               151.79310 (05112506)
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                            90.08173 (04102623)
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                                                                               114.88909 (06052001)
                           922.12266 (04030118)
                                                                               233.89016 (08090519)
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                                                       631750.63 4175600.50
                            84.96269 (06052001)
    631750.63 4175700.50
                                                       631750.63 4175800.50
                                                                               78.83902 (05112506)
    631750.63 4175900.50
                            78.71157 (05112506)
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                                                                              209.50478 (07030418)
    631750.63 4176100.50
                           146.23048 (07030418)
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                                                                               192.34035 (04102617)
                           227.76104 (04102617)
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                                                                               215.95789 (05110722)
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                           388.85040 (08090519)
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                                                                               305.13187 (05020318)
  *** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-
977GSBU)\Documents\HRA\Tracy C ***
                                       12/13/23
*** AERMET - VERSION 18081 *** ***
                                                                                  15:02:10
                                                              PAGE 222
*** MODELOPTs: CONC ELEV RURAL ADJ U*
               *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:
STCK4
                 INCLUDING SOURCE(S):
                                           STCK4
                       *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                     ** CONC OF OTHER IN MICROGRAMS/M**3
   X-COORD (M) Y-COORD (M)
                                  CONC
                                                                X-COORD (M) Y-COORD (M)
                                           (YYMMDDHH)
                                                                                                CONC
(YYMMDDHH)
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                           227.05885 (05020318)
                                                       631850.63 4175900.50
                                                                               187.84533 (04020106)
    631850.63 4176000.50
                           156.94054 (05072006)
                                                       631850.63 4176100.50
                                                                               135.71443 (04111519)
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                           192.38241 (05011817)
                                                       631950.63 4175200.50
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  *** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-
977GSBU)\Documents\HRA\Tracy C ***
                                       12/13/23
*** AERMET - VERSION 18081 *** ***
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**PAGE 223** 

*** MODELOPTs: CONC ELEV RURAL ADJ U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:

STCK5 ***

INCLUDING SOURCE(S): STCK5 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3

CONC (YYMMDDHH) X-COORD (M) Y-COORD (M) X-COORD (M) Y-COORD (M) **CONC** (YYMMDDHH) 241.44240 (04082919) 632121.21 4174952.36 632304.44 4174354.52 98.86480 (06051924) 632192.15 4174956.32 229.77767 (05011317) 632420.62 4175510.15 167.16670 (07102907) 169.38434 (06080604) 160.84266 (08040222) 632418.97 4175552.92 631187.00 4175727.00 631166.00 4175729.00 164.68990 (06080604) 631121.00 4175719.00 160.56842 (06033021) 631035.00 4174830.00 100.24722 (08081806) 631106.00 4174825.00 103.76101 (04041824) 631937.00 4174528.00 128.81984 (04102617) 631322.00 4174522.00 90.27900 (06011109) 629800.63 4173850.44 13.32277 (07031618) 630150.63 4173850.44 15.71209 (04012317) 29.02876 (04012317) 56.00709 (06011109) 630500.63 4173850.44 630850.63 4173850.44 631200.63 4173850.44 52.50580 (06102817) 631550.63 4173850.44 52.42653 (08081805) 631900.63 4173850.44 49.31266 (05110722) 632250.63 4173850.44 67.61111 (05021804) 632600.63 4173850.44 65.13290 (04122822) 66.63492 (05011521) 632950.63 4173850.44 633300.63 4173850.44 58.76388 (06122122) 629800.63 4174200.44 21.68966 (06120217) 630150.63 4174200.44 29.40809 (08081806) 630500.63 4174200.44 46.40722 (06120517) 630850.63 4174200.44 57.59406 (04012317) 631200.63 4174200.44 64.83679 (05030118) 631550.63 4174200.44 74.62670 (08081805) 631900.63 4174200.44 83.34004 (04102617) 118.11877 (05011817) 632250.63 4174200.44 632600.63 4174200.44 113.94872 (08031018) 89.86927 (05011317) 633300.63 4174200.44 632950.63 4174200.44 65.72877 (05110817) 35.42679 (06121217) 47.63234 (04022118) 629800.63 4174550.44 630150.63 4174550.44 630500.63 4174550.44 63.97193 (07020624) 630850.63 4174550.44 76.27748 (06120517) 96.37352 (06011109) 99.14901 (07100818) 631200.63 4174550.44 631550.63 4174550.44 631900.63 4174550.44 127.25780 (04102617) 632250.63 4174550.44 132.75689 (08090903) 632600.63 4174550.44 140.63788 (05011317) 632950.63 4174550.44 102.88803 (06011617) 633300.63 4174550.44 77.17019 (06121106) 629800.63 4174900.44 45.87345 (04022207) 630150.63 4174900.44 56.67840 (06041224) 630500.63 4174900.44 76.53337 (07110617) 630850.63 4174900.44 94.77360 (04022118) 631200.63 4174900.44 115.62469 (04041824) 138.25543 (05030118) 631550.63 4174900.44 631900.63 4174900.44 224.11992 (08102618) 632250.63 4174900.44 215.68087 (05011317) 632600.63 4174900.44 150.74810 (08022004) 632950.63 4174900.44 111.78097 (05021801) 633300.63 4174900.44 90.01297 (07010217) 54.75297 (04121304) 73.76399 (04121304) 629800.63 4175250.44 630150.63 4175250.44 630500.63 4175250.44 89.73157 (06072904) 630850.63 4175250.44 126.73442 (07110902) 164.28658 (06121422) 273.18756 (05072102) 631200.63 4175250.44 631550.63 4175250.44 631900.63 4175250.44 574.75631 (08031018) 632250.63 4175250.44 281.12294 (04081304) 147.88169 (06011618) 632950.63 4175250.44 108.10205 (05122223) 632600.63 4175250.44 633300.63 4175250.44 629800.63 4175600.44 76.88133 (05121217) 48.20410 (04101604) 630150.63 4175600.44 74.69949 (07042002) 630500.63 4175600.44 105.11913 (07042002) 630850.63 4175600.44 139.34185 (06072906) 631200.63 4175600.44 191.72579 (05111617) 631550.63 4175600.44 299.27484 (05110817) 631900.63 4175600.44 283.40544 (04020106) 632250.63 4175600.44 174.73756 (06111908) 632600.63 4175600.44 121.52741 (08010919) 632950.63 4175600.44 85.57982 (06121320) 633300.63 4175600.44 65.75405 (07012418) 629800.63 4175950.44 56.96478 (06011217) 630150.63 4175950.44 73.68551 (04041820) *** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-977GSBU)\Documents\HRA\Tracy C *** 12/13/23 *** AERMET - VERSION 18081 *** *** 15:02:10

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*** MODELOPTs: CONC ELEV RURAL ADJ_U*
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*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:

STCK5 ***

INCLUDING SOURCE(S): STCK5 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD ( (YYMMDDHH	(M) Y-COORI	O (M) CO	ONC (	YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC
630500.63	4175950.44	99.08661	(071206	22) 630850.63	4175950.44	 116.16641 (07102	2702)
631200.63	4175950.44	144.64923			3 4175950.44	198.12211 (0709	
631900.63	4175950.44	207.18069	(070910	007) 632250.6	3 4175950.44	126.39169 (0606	
632600.63	4175950.44	97.29974	(070923)	06) 632950.63	4175950.44	70.78872 (05011	418)
633300.63	4175950.44	57.63198	(061215	03) 629800.63	4176300.44	55.35310 (07120	(622)
630150.63	4176300.44	67.59950	(050301	20) 630500.63	4176300.44	87.03157 (04021	520)
630850.63	4176300.44	97.24413	(050518	03) 631200.63	4176300.44	111.40196 (07090	0904)
631550.63	4176300.44	117.08260	(051125	631900.6	3 4176300.44	108.28573 (0709	1007)
632250.63	4176300.44	93.65257	(060814	06) 632600.63	4176300.44	81.44568 (06062	.806)
632950.63	4176300.44	64.27445	(060523	06) 633300.63	4176300.44	53.35436 (05011	
629800.63	4176650.44	50.50022	(061221	21) 630150.63	4176650.44	54.33636 (05110	620)
630500.63	4176650.44	68.60070	(040210	18) 630850.63	4176650.44	83.11158 (04120	908)
631200.63	4176650.44	87.07252			4176650.44	87.35483 (07080	306)
631900.63	4176650.44	79.63033	(041115	19) 632250.63	4176650.44	74.16151 (07091	007)
632600.63	4176650.44	61.78468	(051117	21) 632950.63	4176650.44	53.74806 (05010	604)
633300.63	4176650.44	46.38631			4177000.44	38.68277 (04021	
630150.63	4177000.44	48.59658	`	,	4177000.44	60.04755 (04121	,
630850.63	4177000.44	66.30944	(071229	17) 631200.63	4177000.44	79.54419 (08091	907)
631550.63	4177000.44	69.87963	(060217	03) 631900.63	4177000.44	66.63259 (08122	.723)
632250.63	4177000.44	59.08608	(050213	02) 632600.63	4177000.44	53.32837 (06010	,
632950.63	4177000.44	56.69405	`	,	4177000.44	40.26403 (05010	,
629800.63	4177350.44	35.80020	(040105	18) 630150.63	4177350.44	40.65030 (04120	903)
630500.63	4177350.44	49.93149	(070127	19) 630850.63	4177350.44	56.54205 (04022	.021)
631200.63	4177350.44	54.22320	`	,	4177350.44	56.70639 (06020	
631900.63	4177350.44	54.20371	`	,	4177350.44	49.50429 (05021	,
632600.63		45.43732		/	4177350.44	40.39127 (07010	,
633300.63		44.00078			4175493.59	527.67458 (04042	
	4175641.41	287.61619	`	,	2 4175796.39	109.94158 (0501	,
	4175826.85	190.58166	`	,	7 4175673.66	186.65458 (0408	,
	4175484.63	426.03279			2 4175983.74	146.50157 (0408	,
631275.69	4175523.99	219.47894			5 4175419.50	283.27327 (0607	2903)
	4175441.30	409.92889	(050717)	702) 631491.9	3 4175442.21	508.09494 (0508	3119)
	4175414.95	573.65374	`	,	3 4175413.14	369.41368 (0503	,
631358.37	4175395.87	290.05127	`	,	5 4175336.81	260.21863 (0604	,
631567.35	4175235.96	273.75071	(050721	631756.3	3 4175028.80	174.38774 (0808	1805)
631807.22	4175003.36	182.62936	(051107)	722) 631867.1	8 4174987.91	240.66299 (0810	,
631849.92	4175988.28	162.26547			4 4175963.75	148.08778 (0411	0906)
	4175943.76	151.99582		/	7 4175923.77	153.99914 (0411	
	4175903.78	158.66815			0 4175883.79	164.70046 (0708	,
	4175863.81	168.24164			3 4175843.82	170.70822 (0708	(0103)
				Jsers\Smith\Dropbox\M	ly PC (DESKTOI	P-	
977GSBU)\Doc	uments\HRA\T	racy C ***	12/13	3/23			

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*** MODELOPTs: CONC ELEV RURAL ADJ_U*
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*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:

STCK5 ***

INCLUDING SOURCE(S): STCK5 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 *

	M) Y-COORD	(M) CO	ONC	(YYMMDDH	H)	X-COORD (M)	Y-COORD	(M) C	ONO
(YYMMDDHH)									
631270.95	4175823.83	176.02283	(07080	1103)	631271.26	4175803.84	178.18419	(07080103	8)
631271.58	4175783.85	184.73589	`	,	631271.20		187.99181	•	-
631272.21	4175743.87	187.43824	`	,	631271.50		247.08475		
631272.85	4175703.89	266.09972		,	631272.33		237.49225		/
	4175663.91	206.47995	`	,	631273.79		216.75104		
	4175623.94	257.12942			631274.43		271.69711	`	/
	4175583.96	237.02222		,	631275.06		220.83106	`	/
631275.37	4175543.98	223.47424	`	,	631285.68		225.62748		
	4175494.14	250.07306	`	,	631305.67		282.07224		/
631315.67	4175464.28	260.94792		,	631325.66		255.60178	`	/
	4175434.43	266.70441	`	,	631358.67		285.25088	`	/
	4175434.03	355.02258	`	,	631402.59		426.20107		
631420.46	4175441.60	440.72381	`	,	631438.33		315.36366	`	_
631456.19	4175441.91	416.50325			631474.06		503.24602	`	/
631491.93	4175428.58	548.20581	(	,	631474.21	4175414.65	560.91542	`	/
631456.50	4175414.35	476.02465			631438.78		351.80387		/
	4175413.74	408.46444	`	,	631403.35		389.25845		
	4175404.51	334.50647		,	631371.09		295.73639	`	/
	4175366.34	294.62817		,	631396.53		282.56639	`	/
	4175326.73	260.53448		,	631440.87		261.41191		/
631456.68	4175306.56	274.51008		,	631472.49		304.57163		
631488.30	4175286.39	304.53038		,	631504.11		305.17989		
	4175266.22	295.79239			631535.73		278.01052		
	4175246.05	272.95660			631579.95		258.90906	`	/
631592.55	4175208.34	252.92407	`	,	631605.15		246.38532		
631617.74	4175180.72	239.58171	`	,	631630.34		231.31252		
631642.94	4175153.10	219.72029		,	631655.54	4175139.29	208.14475		/
631668.14	4175125.47	208.11610			631680.74	4175111.66	212.76408	`	_
631693.34	4175097.85	208.81776	(06102	2817)	631705.94	4175084.04	199.45672	(07100818	3)
631718.53	4175070.23	195.59962			631731.13	4175056.42	191.46042		
631743.73	4175042.61	185.20112	(08081	(805)	631773.29	4175020.32	181.09866	(07030618	3)
631790.26	4175011.84	184.54248	(07030	0618)	631822.21	4174999.50	193.41390	(04102617	<u>′</u> )
631837.20	4174995.64	203.75594	(04102	2617)	631852.19	4174991.77	218.78553	(08102618	3)
631866.84	4175007.53	253.82939	(08102	2618)	631866.50	4175027.14	267.80378	(08102618	3)
631866.16	4175046.76	282.38191	(08102	2618)	631865.83	4175066.37	296.56452	(08102618	3)
631865.49	4175085.99	310.40650	(08102	2618)	631865.15	4175105.60	323.67182	(08102618	3)
631864.81	4175125.22	336.23852	(08102	2618)	631864.47	4175144.83	347.77115	(08102618	3)
	4175164.45	359.79850		,	631863.80	4175184.06	389.84599	`	/
631863.46	4175203.68	420.51781	(05011	(817)	631863.12	4175223.29	527.06708	`	/
631862.78	4175242.91	801.28823	(05011	(817)	631862.44	4175262.52	800.65775		
*** AERMOI	O - VERSION	19191 ***	*** C:\	Users\Smith\D	Oropbox\My	PC (DESKTOP	)_		

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15:02:10

*** MODELOPTs: CONC ELEV RURAL ADJ U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:

STCK5 ***

INCLUDING SOURCE(S): STCK5

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 *

X-COORD (M) Y-COORD (M) X-COORD (M) Y-COORD (M) CONC (YYMMDDHH) **CONC** (YYMMDDHH) 631862.10 4175282.14 739.49092 (05051824) 631861.77 4175301.75 744.95986 (06052001) 927.56443 (07102905) 1055.95357 (08021718) 631861.43 4175321.37 631861.09 4175340.98 631860.75 4175360.60 1141.59123 (06052002) 631860.41 4175380.21 1256.60942 (05071701) 631860.07 4175399.83 718.32589 (04030118) 631859.73 4175419.44 316.16125 (04042519) 631859.40 4175439.06 196.14768 (08010919) 631859.06 4175458.67 164.19857 (04020106) 271.93036 (06021018) 390.66138 (06021018) 631858.72 4175478.29 631858.38 4175497.90 631858.04 4175517.52 449.75644 (08112520) 631857.70 4175537.13 476.48026 (08112520) 631857.37 4175556.75 477.71294 (08112520) 631857.03 4175576.36 438.84206 (08091906) 631856.69 4175595.98 423.21965 (05072006) 631856.35 4175615.59 389.65308 (07080305) 631855.67 4175654.82 631856.01 4175635.21 349.21216 (08112318) 333.76718 (08112318) 631855.33 4175674.44 317.89954 (08112318) 631855.00 4175694.05 302.17213 (08112318) 631854.66 4175713.67 278.33920 (04111519) 631854.32 4175733.28 264.91233 (04111519) 631853.98 4175752.90 234.56930 (05020318) 631853.64 4175772.51 222.52066 (05020318) 631853.30 4175792.13 223.42460 (05020318) 631852.97 4175811.74 213.38661 (05020318) 631852.63 4175831.36 203.97796 (05020318) 631852.29 4175850.97 195.19764 (05020318) 631851.95 4175870.59 186.94725 (05020318) 631851.61 4175890.20 221.49250 (07091007) 631851.27 4175909.82 213.57394 (07091007) 206.16069 (07091007) 631850.94 4175929.43 631850.60 4175949.05 191.56424 (07091007) 631850.26 4175968.66 169.12332 (07091007) 154.38325 (05020318) 161.86865 (06052305) 631830.54 4175988.13 631811.15 4175987.98 172.19014 (07030418) 631791.77 4175987.83 631772.39 4175987.67 192.38020 (07030418) 208.09957 (07030418) 217.95476 (07030418) 631753.00 4175987.52 631733.62 4175987.37 631714.24 4175987.22 221.13175 (07030418) 631694.85 4175987.07 220.22981 (05112506) 631675.47 4175986.92 238.13779 (05112506) 631656.09 4175986.77 230.31703 (07071003) 631636.70 4175986.62 246.41210 (07071003) 631617.32 4175986.46 235.84707 (08091907) 631597.94 4175986.31 248.26791 (08091907) 631578.55 4175986.16 254.71463 (08091907) 631559.17 4175986.01 250.43801 (06110119) 631539.79 4175985.86 255.87280 (06110119) 631520.40 4175985.71 241.91753 (06110119) 631501.02 4175985.56 232.74911 (04083005) 631481.64 4175985.40 202.20740 (07090905) 631462.25 4175985.25 170.51861 (04083005) 631442.87 4175985.10 170.98472 (04083005) 631423.49 4175984.95 167.98573 (04083005) 164.46965 (05081406) 631404.10 4175984.80 631384.72 4175984.65 163.21518 (04101820) 631365.34 4175984.50 160.85346 (04101820) 631345.95 4175984.35 155.63465 (04101820) 631326.57 4175984.19 154.13914 (05112504) 151.77452 (04082205) 631307.19 4175984.04 631287.80 4175983.89 150.26782 (04082205) 631050.63 4175100.50 135.52838 (07110617) 135.38096 (04041821) 631050.63 4175200.50 631050.63 4175300.50 158.63576 (07110902) 191.17751 (06072903) 631050.63 4175400.50 631050.63 4175500.50 175.24150 (05071702) 631050.63 4175600.50 161.54180 (06011217) 631050.63 4175700.50 154.94790 (05072902) 631050.63 4175800.50 141.78786 (06080604) 631050.63 4175900.50 136.49687 (04082001) 631050.63 4176000.50 128.40747 (07080103) 631050.63 4176100.50 121.06753 (07082502) 134.67245 (07110617) 631150.63 4175100.50 631150.63 4175200.50 143.69641 (04041821) 631150.63 4175300.50 174.24834 (07110902) 631150.63 4175400.50 213.45819 (06072903)

*** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-

977GSBU)\Documents\HRA\Tracy C *** 12/13/23

*** AERMET - VERSION 18081 *** *** 15:02:10

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*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:

STCK5 ***

INCLUDING SOURCE(S): STCK5 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M) Y-COORD (M) **CONC** (YYMMDDHH) X-COORD (M) Y-COORD (M) **CONC** (YYMMDDHH) 191.76557 (05071702) 631150.63 4175500.50 631150.63 4175600.50 180.65180 (06011217) 631150.63 4175700.50 167.51021 (06033021) 631150.63 4175800.50 148.55826 (07120623) 631150.63 4175900.50 142.47901 (07080103) 631150.63 4176000.50 134.58097 (07082502) 631150.63 4176100.50 122.53816 (04082205) 631250.63 4175100.50 140.15525 (04041823) 631250.63 4175200.50 166.26349 (07110617) 631250.63 4175300.50 192.88910 (05030401) 631250.63 4175400.50 240.72056 (06072903) 631250.63 4175500.50 217.42114 (06041503) 631250.63 4175600.50 202.36969 (05111617) 631250.63 4175700.50 189.48548 (07102702) 631250.63 4175800.50 175.54011 (05081503) 631250.63 4175900.50 158.74162 (07082502) 631250.63 4176000.50 141.62918 (04082205) 631250.63 4176100.50 128.41965 (05112504) 157.88032 (05072102) 183.23222 (07110617) 631350.63 4175100.50 631350.63 4175200.50 219.37828 (05030401) 287.60643 (06072903) 631350.63 4175300.50 631350.63 4175400.50 631350.63 4175500.50 351.02802 (06011217) 631350.63 4175600.50 371.38819 (08081602) 631350.63 4175700.50 348.10400 (04082001) 631350.63 4175800.50 285.89607 (05051803) 631350.63 4175900.50 178.96371 (04082205) 155.38213 (04101820) 631350.63 4176000.50 631350.63 4176100.50 136.87698 (04083005) 631450.63 4175100.50 166.77687 (05111717) 194.75870 (06051905) 245.04964 (05030401) 631450.63 4175200.50 631450.63 4175300.50 631450.63 4175400.50 419.68179 (06072903) 631450.63 4175500.50 208.05425 (06121423) 631450.63 4175600.50 171.54710 (06033021) 631450.63 4175700.50 171.11971 (07082502) 631450.63 4175800.50 179.02131 (04082205) 631450.63 4175900.50 190.86505 (04101820) 631450.63 4176000.50 164.21077 (04083005) 631450.63 4176100.50 144.90198 (07090905) 183.33176 (04012317) 631550.63 4175100.50 631550.63 4175200.50 237.95796 (05072102) 631550.63 4175300.50 104.42789 (06121422) 631550.63 4175400.50 260.85140 (06072903) 631550.63 4175500.50 289.16821 (08012218) 631550.63 4175600.50 299.16577 (05110817) 631550.63 4175700.50 215.60625 (04081924) 631550.63 4175800.50 150.75852 (04101820) 156.56575 (07090905) 262.36304 (07090905) 631550.63 4175900.50 631550.63 4176000.50 631550.63 4176100.50 148.73447 (08091907) 631650.63 4175100.50 195.36782 (05030118) 251.35773 (08121017) 631650.63 4175200.50 631650.63 4175300.50 70.29086 (06121422) 631650.63 4175400.50 161.18778 (06072903) 631650.63 4175500.50 496.90059 (04042519) 201.50155 (08090903) 631650.63 4175600.50 367.82332 (06052001) 631650.63 4175700.50 631650.63 4175800.50 114.26394 (07090905) 631650.63 4175900.50 112.83663 (07071003) 247.85040 (05112506) 141.24104 (05112506) 631650.63 4176000.50 631650.63 4176100.50 631750.63 4175100.50 207.75001 (08081805) 631750.63 4175200.50 275.61244 (08081805) 631750.63 4175300.50 178.68118 (08102618) 631750.63 4175400.50 557.15517 (08012218) 631750.63 4175500.50 458.12800 (06052001) 631750.63 4175600.50 262.58597 (08102618) 631750.63 4175700.50 153.15016 (08102618) 631750.63 4175800.50 77.57263 (05112506) 631750.63 4175900.50 73.34994 (05112506) 631750.63 4176000.50 205.88927 (07030418) 631750.63 4176100.50 140.93395 (07030418) 631850.63 4175100.50 305.28243 (08102618) 631850.63 4175300.50 631850.63 4175200.50 407.92268 (08102618) 710.40611 (06052001) 631850.63 4175400.50 661.96019 (04030118) 631850.63 4175500.50 477.31207 (08112520)

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631850.63 4175600.50
                        399.12867 (08112318)
                                                                         294.78846 (04111519)
                                                   631850.63 4175700.50
*** AERMET - VERSION 18081 *** ***
                                                                            15:02:10
                                                         PAGE 228
*** MODELOPTs: CONC ELEV RURAL ADJ U*
              *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:
STCK5
                INCLUDING SOURCE(S):
                                        STCK5
                      *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                   ** CONC OF OTHER IN MICROGRAMS/M**3
  X-COORD (M) Y-COORD (M)
                                CONC (YYMMDDHH)
                                                            X-COORD (M) Y-COORD (M)
                                                                                         CONC
(YYMMDDHH)
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                         221.19685 (05020318)
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                         158.79644 (07091007)
                                                   631850.63 4176100.50
                                                                         128.76248 (07091007)
   631950.63 4175100.50
                         298.67977 (08090903)
                                                   631950.63 4175200.50
                                                                         440.76104 (04082919)
    631950.63 4175300.50
                         531.64204 (07102905)
                                                   631950.63 4175400.50
                                                                         484.52544 (04030118)
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                         352.20386 (06102818)
                                                   631950.63 4175600.50
                                                                         224.41935 (06112624)
   631950.63 4175700.50
                         248.44619 (07091007)
                                                   631950.63 4175800.50
                                                                         155.33059 (06021018)
    631950.63 4175900.50
                         240.41963 (07091007)
                                                   631950.63 4176000.50
                                                                         204.41153 (07091007)
   631950.63 4176100.50
                         176.51997 (07091007)
                                                   632050.63 4175100.50
                                                                         326.31044 (04082919)
                         372.31595 (05110817)
                                                                         424.81092 (06072803)
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                                                   632050.63 4175300.50
   632050.63 4175400.50
                         374.33164 (07102804)
                                                   632050.63 4175500.50
                                                                         269.35500 (06111908)
   632050.63 4175600.50
                         236.19270 (06052306)
                                                   632050.63 4175700.50
                                                                         206.81017 (04082204)
   632050.63 4175800.50
                         183.65121 (08102318)
                                                   632050.63 4175900.50
                                                                         155.74533 (07091007)
    632050.63 4176000.50
                         167.06724 (07091007)
                                                   632050.63 4176100.50
                                                                         165.61525 (07091007)
  *** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-
977GSBU)\Documents\HRA\Tracy C ***
                                    12/13/23
*** AERMET - VERSION 18081 *** ***
                                                                     ***
                                                                            15:02:10
                                                         PAGE 229
*** MODELOPTs: CONC ELEV RURAL ADJ U*
              *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:
STCK6
                INCLUDING SOURCE(S): STCK6
                      *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                   ** CONC OF OTHER IN MICROGRAMS/M**3
                                                            X-COORD (M) Y-COORD (M)
  X-COORD (M) Y-COORD (M)
                                CONC
                                        (YYMMDDHH)
                                                                                         CONC
(YYMMDDHH)
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    632121.21 4174952.36
                         106.73577 (08031018)
                                                                          64.88391 (04122822)
    632192.15 4174956.32
                         97.01966 (04081924)
                                                   632420.62 4175510.15
                                                                         124.50247 (07010217)
    632418.97 4175552.92
                         127.70039 (07020218)
                                                   631187.00 4175727.00
                                                                         514.94650 (07110617)
                         469.91467 (04041821)
                                                                         301.66463 (04041821)
    631166.00 4175729.00
                                                   631121.00 4175719.00
   631035.00 4174830.00
                         114.53362 (05030118)
                                                   631106.00 4174825.00
                                                                         124.98849 (06102817)
    631937.00 4174528.00
                          89.20266 (05011817)
                                                   631322.00 4174522.00
                                                                         81.76967 (04102621)
    629800.63 4173850.44
                          13.61322 (04012317)
                                                   630150.63 4173850.44
                                                                         31.81220 (06011109)
    630500.63 4173850.44
                          37.90052 (05012117)
                                                   630850.63 4173850.44
                                                                         51.80414 (06102817)
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                            41.09012 (06121420)
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                                                                               43.56600 (05021805)
    631900.63 4173850.44
                            55.72971 (04102617)
                                                       632250.63 4173850.44
                                                                               60.38723 (05011817)
                            45.42884 (04122822)
    632600.63 4173850.44
                                                       632950.63 4173850.44
                                                                               42.06762 (05011521)
                                                                               19.46355 (06121421)
    633300.63 4173850.44
                            38.44488 (04022018)
                                                       629800.63 4174200.44
                            42.72107 (04012317)
                                                                               81.66214 (06011109)
    630150.63 4174200.44
                                                       630500.63 4174200.44
    630850.63 4174200.44
                            71.47608 (06102817)
                                                       631200.63 4174200.44
                                                                               58.99851 (05071804)
    631550.63 4174200.44
                            61.89543 (07030618)
                                                       631900.63 4174200.44
                                                                               69.79722 (07020623)
                                                                               54.94474 (08031018)
    632250.63 4174200.44
                            68.48777 (08071406)
                                                       632600.63 4174200.44
    632950.63 4174200.44
                            49.44584 (04022018)
                                                                               37.93327 (08030618)
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    629800.63 4174550.44
                            33.76385 (05122619)
                                                                               62.70636 (06121421)
                                                       630150.63 4174550.44
    630500.63 4174550.44
                            85.92368 (04012317)
                                                       630850.63 4174550.44
                                                                               95.70356 (06011109)
    631200.63 4174550.44
                            87.04565 (04112917)
                                                       631550.63 4174550.44
                                                                               82.02688 (07030618)
    631900.63 4174550.44
                            86.58094 (08071405)
                                                       632250.63 4174550.44
                                                                               73.21235 (08031018)
                            65.65718 (05011317)
                                                       632950.63 4174550.44
                                                                               52.79766 (08030618)
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    633300.63 4174550.44
                            51.35799 (06011617)
                                                       629800.63 4174900.44
                                                                               46.89160 (04022118)
                            85.01010 (07020624)
                                                                               109.11758 (06121421)
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                                                       630500.63 4174900.44
    630850.63 4174900.44
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                                                                               78.07333 (05110817)
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                            62.84753 (05020802)
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                            131.31915 (04022118)
                                                       630850.63 4175250.44
                                                                               164.18682 (08081806)
                            190.99397 (06011109)
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                                                       631550.63 4175250.44
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                            145.25374 (08031018)
                                                                               123.76717 (05110817)
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    632600.63 4175250.44
                            90.53090 (04022223)
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                            73.11031 (06051906)
    630150.63 4175600.44
                                                       630500.63 4175600.44
                                                                               113.27297 (04041821)
                                                                               355.33783 (05072102)
    630850.63 4175600.44
                            194.49520 (04041821)
                                                       631200.63 4175600.44
                           234.30997 (05112506)
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    631550.63 4175600.44
                                                       631900.63 4175600.44
    632250.63 4175600.44
                           160.59561 (05071701)
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                            71.86662 (05122223)
                                                                               51.68048 (05121217)
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    629800.63 4175950.44
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                                                                               91.70499 (07042002)
  *** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-
977GSBU)\Documents\HRA\Tracy C ***
                                       12/13/23
*** AERMET - VERSION 18081 *** ***
                                                                                  15:02:10
                                                              PAGE 230
*** MODELOPTs: CONC ELEV RURAL ADJ U*
               *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:
STCK6
                                           STCK6
                 INCLUDING SOURCE(S):
                       *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                     ** CONC OF OTHER IN MICROGRAMS/M**3
   X-COORD (M) Y-COORD (M)
                                   CONC
                                                                X-COORD (M) Y-COORD (M)
                                           (YYMMDDHH)
                                                                                                 CONC
(YYMMDDHH)
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                                                       633300.63 4176300.44
    629800.63 4176650.44
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    630150.63 4177000.44
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    630850.63 4177000.44
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    632600.63 4177350.44
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                           481.89545 (05030402)
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                                                        631417.17 4175673.66
    631422.55 4175484.63
                           129.71690 (04101605)
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    631275.69 4175523.99
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                           230.98156 (07030618)
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                                                                               309.42227 (06102817)
                           313.45472 (06102817)
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    631567.35 4175235.96
                           174.70135 (07030618)
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    631807.22 4175003.36
                           134.70746 (05011817)
                                                        631867.18 4174987.91
                                                                               129.24747 (08071406)
    631849.92 4175988.28
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                           512.13635 (06033021)
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                                                        631270.63 4175843.82
                                                                               795.68661 (05071702)
  *** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-
977GSBU)\Documents\HRA\Tracy C ***
                                       12/13/23
*** AERMET - VERSION 18081 *** ***
                                                                                  15:02:10
                                                              PAGE 231
*** MODELOPTs: CONC ELEV RURAL ADJ U*
               *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:
STCK6
                 INCLUDING SOURCE(S):
                                            STCK6
                       *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                     ** CONC OF OTHER IN MICROGRAMS/M**3
                                                                              **
                                                                 X-COORD (M) Y-COORD (M)
   X-COORD (M) Y-COORD (M)
                                   CONC
                                           (YYMMDDHH)
                                                                                                 CONC
(YYMMDDHH)
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                           402.36030 (06072904)
                                                                               340.69223 (06072904)
                                                        631271.90 4175763.86
    631272.21 4175743.87
                           346.20452 (04041821)
                                                        631272.53 4175723.88
                                                                               363.34388 (07110617)
    631272.85 4175703.89
                           378.90110 (07110617)
                                                       631273.16 4175683.90
                                                                               367.12512 (07110617)
    631273.48 4175663.91
                           336.82503 (06051905)
                                                                               349.91944 (05072102)
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    631274.11 4175623.94
                           356.99435 (05072102)
                                                       631274.43 4175603.95
                                                                               337.46198 (05072102)
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  *** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-
977GSBU)\Documents\HRA\Tracy C ***
                                       12/13/23
*** AERMET - VERSION 18081 *** ***
                                                                                  15:02:10
                                                              PAGE 232
*** MODELOPTs: CONC ELEV RURAL ADJ U*
               *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:
STCK6
                 INCLUDING SOURCE(S):
                                            STCK6
                       *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                     ** CONC OF OTHER IN MICROGRAMS/M**3
                                                                              **
   X-COORD (M) Y-COORD (M)
                                   CONC
                                           (YYMMDDHH)
                                                                 X-COORD (M) Y-COORD (M)
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  *** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-
977GSBU)\Documents\HRA\Tracy C ***
                                       12/13/23
*** AERMET - VERSION 18081 *** ***
                                                                                  15:02:10
                                                              PAGE 233
*** MODELOPTs: CONC ELEV RURAL ADJ U*
               *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:
        ***
STCK6
                 INCLUDING SOURCE(S):
                                            STCK6
                       *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                     ** CONC OF OTHER IN MICROGRAMS/M**3
   X-COORD (M) Y-COORD (M)
                                  CONC
                                           (YYMMDDHH)
                                                                 X-COORD (M) Y-COORD (M)
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977GSBU)\Documents\HRA\Tracy C ***
                                       12/13/23
*** AERMET - VERSION 18081 *** ***
                                                                                  15:02:10
                                                              PAGE 234
*** MODELOPTS: CONC ELEV RURAL ADJ U*
               *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:
STCK6
                 INCLUDING SOURCE(S):
                                           STCK6
                       *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                     ** CONC OF OTHER IN MICROGRAMS/M**3
   X-COORD (M) Y-COORD (M)
                                  CONC
                                           (YYMMDDHH)
                                                                X-COORD (M) Y-COORD (M)
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  *** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-
977GSBU)\Documents\HRA\Tracy C ***
                                       12/13/23
*** AERMET - VERSION 18081 *** ***
                                                                                 15:02:10
                                                             PAGE 235
*** MODELOPTs: CONC ELEV RURAL ADJ U*
               *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:
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 $\mathbf{C}$ 

STCK7

INCLUDING SOURCE(S): STCK7

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3

X-COORD (YYMMDDHH	(M) Y-COORD )	(M) CO	ONC	(YYMMDD	НН)	X-COORD (M)	Y-COORE	) (M)	CONC
632121.21	4174952.36	122.64946	(0408	1924)	632304.44	4174354.52	68.36727	(050208	318)
632192.15	4174956.32	124.95765		,	632420.62	4175510.15	153.79602	`	,
632418.97	4175552.92	147.57308		,	631187.00	4175727.00	395.35601		,
631166.00	4175729.00	371.39395	(0503	0320)	631121.00	4175719.00	320.18291	(050303	320)
631035.00	4174830.00	121.27575	(0601	1109)	631106.00	4174825.00	113.89818	(05030)	118)
631937.00	4174528.00	94.89961			631322.00	4174522.00	80.51956	(0808180	05)
629800.63	4173850.44	12.77240	(04012	2317)	630150.63	4173850.44	26.20831	(0601110	09)
630500.63	4173850.44	35.14745	(06011	109)	630850.63	4173850.44	52.18092		
631200.63	4173850.44	40.86038	(08081	1805)	631550.63	4173850.44	44.62981	(070306)	18)
631900.63	4173850.44	53.96974	(04102	2617)	632250.63	4173850.44	51.45626	(050118	17)
632600.63	4173850.44	47.04342	(05020	0818)	632950.63	4173850.44	45.06445	(0501152	20)
633300.63	4173850.44	39.86212	(04022)	2018)	629800.63	4174200.44	23.15705	(0612142	21)
630150.63	4174200.44	43.25462	(04012	2317)	630500.63	4174200.44	74.25727	(0601110	09)
630850.63	4174200.44	63.30410	(06102	2817)	631200.63	4174200.44	58.01175	(071008)	18)
631550.63	4174200.44	63.22809	(07030	0618)	631900.63	4174200.44	65.35723	(0412282	24)
632250.63	4174200.44	56.16367	(06051	1924)	632600.63	4174200.44	60.88761	(0501152	21)
632950.63	4174200.44	54.70847	(04022)	2018)	633300.63	4174200.44	37.88316	(0503040	08)
629800.63	4174550.44	48.15498	(07020	0624)	630150.63	4174550.44	62.09841	(0612142	21)
630500.63	4174550.44	93.42738	(04012)	2317)	630850.63	4174550.44	105.13491	(060111	09)
631200.63	4174550.44	84.10089	(07111	1022)	631550.63	4174550.44	83.80203	(070306)	18)
631900.63	4174550.44	94.71384	(05011	1817)	632250.63	4174550.44	88.53282	(080310)	18)
632600.63	4174550.44	77.15547	(05011	(317)	632950.63	4174550.44	58.78267	(070211)	18)
633300.63	4174550.44	44.92947	(05020	0802)	629800.63	4174900.44	50.58857	(061212	17)
630150.63	4174900.44	81.42236	(06120	)217)	630500.63	4174900.44	94.28907	(041018	19)
630850.63	4174900.44	129.52136	(0401)	2317)	631200.63	4174900.44	134.62551	(061028	817)
631550.63	4174900.44	113.10278	(0511	0722)	631900.63	4174900.44	105.22354	(080714	406)
632250.63	4174900.44	117.31258	(0501	1317)	632600.63	4174900.44	96.13567	(060116	17)
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977GSBU)\Documents\HRA\Tracy C ***
                                       12/13/23
*** AERMET - VERSION 18081 *** ***
                                                                                   15:02:10
                                                              PAGE 236
*** MODELOPTS: CONC ELEV RURAL ADJ U*
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*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:

STCK7

INCLUDING SOURCE(S): STCK7

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3

CONC X-COORD (M) Y-COORD (M) X-COORD (M) Y-COORD (M) (YYMMDDHH) **CONC** (YYMMDDHH) 210.02200 (05051724) 630500.63 4175950.44 149.53271 (06011217) 630850.63 4175950.44 631200.63 4175950.44 285.19529 (04082001) 631550.63 4175950.44 282.76419 (06080603) 291.64964 (07092306) 177.47786 (06111908) 631900.63 4175950.44 632250.63 4175950.44 632600.63 4175950.44 123.57331 (06012918) 632950.63 4175950.44 81.43053 (06121320) 52.50293 (07012418) 633300.63 4175950.44 629800.63 4176300.44 60.28154 (04041820) 630150.63 4176300.44 104.21225 (07120622) 630500.63 4176300.44 115.33980 (06122121) 630850.63 4176300.44 143.97997 (07082502) 631200.63 4176300.44 148.78356 (07090905) 631550.63 4176300.44 129.24652 (06052305) 631900.63 4176300.44 143.50593 (08102318) 632250.63 4176300.44 149.15266 (06052306) 632600.63 4176300.44 102.46402 (04121022) 50.90129 (05122401) 632950.63 4176300.44 70.29863 (05020719) 633300.63 4176300.44 629800.63 4176650.44 55.48474 (06122121) 630150.63 4176650.44 84.18766 (04021520) 630500.63 4176650.44 84.25839 (04021521) 98.91254 (04101820) 630850.63 4176650.44 631200.63 4176650.44 107.02145 (08091907) 631550.63 4176650.44 92.78589 (06052305) 94.08631 (05082502) 631900.63 4176650.44 632250.63 4176650.44 125.89448 (06062806) 632600.63 4176650.44 86.20674 (06052306) 632950.63 4176650.44 63.68215 (08122903) 633300.63 4176650.44 45.94731 (05020806) 629800.63 4177000.44 47.11382 (04021520) 630150.63 4177000.44 54.74010 (04021018) 630500.63 4177000.44 71.07148 (04120908) 75.31290 (07021218) 72.41134 (06013008) 630850.63 4177000.44 631200.63 4177000.44 66.61642 (06052305) 631550.63 4177000.44 631900.63 4177000.44 69.41737 (04121819) 632250.63 4177000.44 66.13661 (06120218) 632600.63 4177000.44 78.20849 (06062806) 632950.63 4177000.44 61.12433 (08021908) 633300.63 4177000.44 50.67589 (08021808) 629800.63 4177350.44 37.35745 (04010518) 630150.63 4177350.44 44.07747 (04121223) 630500.63 4177350.44 54.68245 (07122917) 630850.63 4177350.44 64.73803 (08091907) 631200.63 4177350.44 55.15572 (07021108) 631550.63 4177350.44 52.87684 (07122904) 51.58265 (05022620) 631900.63 4177350.44 50.95666 (07021206) 632250.63 4177350.44 632600.63 4177350.44 45.85372 (05121423) 632950.63 4177350.44 43.89052 (06062806) 633300.63 4177350.44 43.31363 (08021908) 631670.70 4175493.59 317.61864 (04082919) 631669.80 4175641.41 681.11174 (07080303) 631665.32 4175796.39 567.06380 (07092306)

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977GSBU)\Documents\HRA\Tracy C ***
                                      12/13/23
*** AERMET - VERSION 18081 *** ***
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                                                                                15:02:10
                                                             PAGE 237
*** MODELOPTS: CONC ELEV RURAL ADJ U*
               *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:
STCK7
        ***
                 INCLUDING SOURCE(S):
                                           STCK7
                       *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                    ** CONC OF OTHER IN MICROGRAMS/M**3
                                                               X-COORD (M) Y-COORD (M)
   X-COORD (M) Y-COORD (M)
                                  CONC
                                          (YYMMDDHH)
                                                                                               CONC
(YYMMDDHH)
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977GSBU)\Documents\HRA\Tracy C ***
                                      12/13/23
*** AERMET - VERSION 18081 *** ***
                                                                                15:02:10
                                                            PAGE 238
*** MODELOPTS: CONC ELEV RURAL ADJ U*
               *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:
STCK7
                 INCLUDING SOURCE(S):
                                          STCK7
                       *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                    ** CONC OF OTHER IN MICROGRAMS/M**3
   X-COORD (M) Y-COORD (M)
                                                               X-COORD (M) Y-COORD (M)
                                  CONC
                                          (YYMMDDHH)
                                                                                              CONC
(YYMMDDHH)
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254.02257 (06081406)

241.94138 (06100919)

241.55052 (05072006)

242.51723 (07030418)

275.75583 (06062806)

273.97766 (06062806)

249.33590 (08062724)

250.22168 (06081406)

242.85687 (06080603)

238.75372 (04111519)

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631714.24 4175987.22

631675.47 4175986.92

631636.70 4175986.62

631597.94 4175986.31

631559.17 4175986.01

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    631520.40 4175985.71
                                                       631501.02 4175985.56
                                                                               260.17395 (07030418)
    631481.64 4175985.40
                           251.46123 (07080306)
                                                       631462.25 4175985.25
                                                                              268.40805 (05112506)
                           284.85473 (05112506)
                                                                               289.07798 (05112506)
    631442.87 4175985.10
                                                       631423.49 4175984.95
    631404.10 4175984.80
                           319.55611 (07090905)
                                                       631384.72 4175984.65
                                                                               338.90470 (07090905)
                           361.63143 (04101820)
                                                                               389.46812 (04101820)
    631365.34 4175984.50
                                                       631345.95 4175984.35
    631326.57 4175984.19
                           403.44633 (04101820)
                                                       631307.19 4175984.04
                                                                              402.12653 (04101820)
                           373.72492 (05112504)
                                                                               149.58871 (08121017)
    631287.80 4175983.89
                                                       631050.63 4175100.50
    631050.63 4175200.50
                           172.75970 (04012317)
                                                       631050.63 4175300.50
                                                                               192.00597 (05111717)
                           231.22424 (05072102)
                                                                               351.65053 (06020109)
    631050.63 4175400.50
                                                       631050.63 4175500.50
                           314.19547 (06020109)
                                                                              258.02199 (06072903)
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                                                       631050.63 4175700.50
    631050.63 4175800.50
                           277.11073 (06041503)
                                                       631050.63 4175900.50
                                                                              269.49095 (08081602)
    631050.63 4176000.50
                           215.10377 (04082001)
                                                       631050.63 4176100.50
                                                                               184.17016 (07080103)
                           161.14816 (06011109)
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                                                       631150.63 4175200.50
                                                                               170.53374 (08121017)
                           208.43697 (04012317)
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                                                                               237.50311 (08081806)
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  *** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-
977GSBU)\Documents\HRA\Tracy C ***
                                       12/13/23
*** AERMET - VERSION 18081 *** ***
                                                                                 15:02:10
                                                             PAGE 239
*** MODELOPTs: CONC ELEV RURAL ADJ U*
               *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:
                 INCLUDING SOURCE(S):
                                           STCK7
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STCK7

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3

	(M) Y-COORE	O(M) CO	ONC	(YYMMDDH	IH)	X-COORD (M)	Y-COORD	(M) CONC
(YYMMDDHH	.)							
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631150.63	4175700.50	331.37436			631150.63			(06011217)
631150.63	4175900.50	302.27677	`	,	631150.63			(04082001)
631150.63		186.75384			631250.63			(06102817)
631250.63	4175200.50	173.70280			631250.63			(06011109)
631250.63	4175400.50	263.78752	`	/	631250.63			(05072102)
631250.63		487.06403	`	,	631250.63			(05072102) $(05030402)$
631250.63	4175800.50	494.04730		,	631250.63			(07120623)
631250.63	4176000.50	243.42222		,	631250.63			(04101820)
631350.63		145.64192	`	,	631350.63			(06102817)
631350.63	4175300.50	209.79762	`	,	631350.63			(08121017)
631350.63	4175500.50	247.93808		,	631350.63			(07110617)
631350.63		473.37885		,	631350.63			(06033021)
631350.63	4175900.50	221.55984	`	/	631350.63			(04101820)
631350.63	4176100.50	200.17507	`	/	631450.63			(08081805)
631450.63	4175200.50	156.71853		,	631450.63			(06102817)
631450.63	4175400.50	251.34514	(0610	2817)	631450.63	4175500.50	202.28441	(05050803)
631450.63	4175600.50	367.63787	(0710	0818)	631450.63	4175700.50	437.18490	(05071701)
631450.63	4175800.50	239.15073	(0710	2905)	631450.63	4175900.50	187.70201	(04111019)
631450.63	4176000.50	267.76772	(0511	2506)	631450.63	4176100.50	180.68782	(05112506)
631550.63	4175100.50	140.90147	(0511	0722)	631550.63	4175200.50	180.99950	(04102623)
631550.63	4175300.50	155.66175	(0810	2618)	631550.63	4175400.50	211.17884	(08102618)
631550.63	4175500.50	117.95827	(0809	0903)	631550.63	4175600.50	280.70601	(05051824)
631550.63	4175700.50	1137.23663	(050)	71701)	631550.63	3 4175800.50	334.68972	(06110304)
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                           206.00821 (04102617)
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                                                                             429.00152 (08031018)
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                                                                             192.58099 (07102901)
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                                                      631850.63 4175100.50
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                           392.04926 (04081304)
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  *** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-
977GSBU)\Documents\HRA\Tracy C ***
                                      12/13/23
*** AERMET - VERSION 18081 *** ***
                                                                                15:02:10
                                                            PAGE 240
*** MODELOPTs: CONC ELEV RURAL ADJ U*
               *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:
STCK7
                 INCLUDING SOURCE(S): STCK7
                       *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                    ** CONC OF OTHER IN MICROGRAMS/M**3
   X-COORD (M) Y-COORD (M)
                                                               X-COORD (M) Y-COORD (M)
                                  CONC
                                          (YYMMDDHH)
                                                                                              CONC
(YYMMDDHH)
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                           370.77268 (04041919)
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                                                                             323.28266 (07112517)
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                           265.03715 (06052306)
                                                      631850.63 4176100.50
                                                                             213.86856 (06062806)
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                           154.02871 (06052001)
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                           307.83634 (06052002)
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                                                      632050.63 4175500.50
                           264.30611 (07062003)
                                                      632050.63 4175700.50
                                                                             331.86855 (07102804)
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                                                                             263.82378 (06111908)
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    632050.63 4176000.50
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  *** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-
977GSBU)\Documents\HRA\Tracy C ***
                                      12/13/23
*** AERMET - VERSION 18081 *** ***
                                                                                15:02:10
                                                             PAGE 241
*** MODELOPTs: CONC ELEV RURAL ADJ U*
               *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:
STCK8
                 INCLUDING SOURCE(S):
                                          STCK8
                       *** DISCRETE CARTESIAN RECEPTOR POINTS ***
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X-COORD (M) Y-COORD (M)
                                   CONC
                                           (YYMMDDHH)
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                                                                                                 CONC
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    632418.97 4175552.92
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                           509.83770 (05111617)
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                                                        631322.00 4174522.00
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                            42.12402 (07020623)
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                                                       629800.63 4174200.44
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                            65.49006 (07030618)
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                            69.47920 (04122822)
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                            59.00686 (05021018)
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  *** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-
977GSBU)\Documents\HRA\Tracy C ***
                                        12/13/23
*** AERMET - VERSION 18081 *** ***
                                                                           ***
                                                                                   15:02:10
                                                              PAGE 242
*** MODELOPTs: CONC ELEV RURAL ADJ U*
               *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:
        ***
STCK8
                 INCLUDING SOURCE(S):
                                            STCK8
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## *** DISCRETE CARTESIAN RECEPTOR POINTS ***

**

## ** CONC OF OTHER IN MICROGRAMS/M**3

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X-COORD (M) Y-COORD (M)
                                   CONC
                                            (YYMMDDHH)
                                                                  X-COORD (M) Y-COORD (M)
                                                                                                  CONC
(YYMMDDHH)
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                                                        630500.63 4176300.44
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                            67.01161 (06122121)
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    631200.63 4176650.44
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    633300.63 4176650.44
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                                                                                 51.85217 (07122904)
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                            51.63087 (07021206)
                                                        632250.63 4177350.44
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    632600.63 4177350.44
                            44.18012 (06010521)
                                                        632950.63 4177350.44
                                                                                45.61608 (06062806)
    633300.63 4177350.44
                            35.62464 (08021908)
                                                        631670.70 4175493.59
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                            618.54760 (04041919)
                                                                                 344.68537 (06062806)
    631669.80 4175641.41
                                                        631665.32 4175796.39
                            157.28795 (04101820)
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                            703.71783 (06121422)
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                                                                                 392.40505 (05111717)
    631384.72 4175441.30
                            245.49020 (05030118)
                                                        631491.93 4175442.21
                                                                                 369.82421 (07030618)
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                            324.91337 (07030618)
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                                                                                 339.71092 (08121017)
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                                                                                246.03022 (06102817)
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                            223.73355 (04102617)
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                                                                                 174.75096 (08071406)
                            150.11551 (08071406)
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    631807.22 4175003.36
                                                                                 173.45598 (08090903)
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    631849.92 4175988.28
                            181.60790 (06062806)
                                                                                427.23978 (04101820)
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                                                        631270.00 4175883.79
                                                                                 298.15043 (07082502)
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    631270.32 4175863.81
                            315.61859 (07082502)
                                                        631270.63 4175843.82
  *** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-
977GSBU)\Documents\HRA\Tracy C ***
                                        12/13/23
*** AERMET - VERSION 18081 *** ***
                                                                            ***
                                                                                   15:02:10
                                                               PAGE 243
*** MODELOPTs: CONC ELEV RURAL ADJ U*
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 $file: ///C/...977GSBU)/Documents/HRA/Tracy\%20Costco\%20DepotV4\%20-\%20OP/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3. ADO.txt[12/18/2023 \ 11:20:47 \ AM]/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V20V20V3/Tracy\%20Costco\%20V20V20V20V20V20V20V$ 

STCK8

INCLUDING SOURCE(S):

STCK8

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:

## *** DISCRETE CARTESIAN RECEPTOR POINTS ***

**

** CONC OF OTHER IN MICROGRAMS/M**3

X-COORD (M) Y-COORD (M) X-COORD (M) Y-COORD (M) CONC (YYMMDDHH) **CONC** (YYMMDDHH) 367.14806 (04082001) 631270.95 4175823.83 347.07276 (04082001) 631271.26 4175803.84 369.58836 (04082001) 365.24633 (06033021) 631271.58 4175783.85 631271.90 4175763.86 631272.21 4175743.87 395.60113 (06033021) 631272.53 4175723.88 403.20878 (06033021) 631272.85 4175703.89 396.46553 (08081602) 631273.16 4175683.90 393.37337 (06121423) 631273.48 4175663.91 462.90641 (06121423) 631273.79 4175643.92 488.97968 (05071702) 488.74667 (05030402) 631274.11 4175623.94 487.60036 (05071702) 631274.43 4175603.95 631274.74 4175583.96 519.66392 (05030402) 631275.06 4175563.97 531.72251 (06092418) 771.58900 (08112618) 653.60378 (07110617) 631275.37 4175543.98 631285.68 4175509.06 631295.68 4175494.14 626.78564 (07110617) 631305.67 4175479.21 562.45980 (07110617) 631315.67 4175464.28 501.04014 (05072102) 631325.66 4175449.35 478.06640 (05072102) 631335.66 4175434.43 429.12098 (05072102) 631358.67 4175426.77 395.05683 (05111717) 631371.70 4175434.03 367.98465 (04012317) 631402.59 4175441.45 177.39720 (07100818) 245.00476 (07100818) 631420.46 4175441.60 631438.33 4175441.76 293.78815 (06041020) 631456.19 4175441.91 353.34915 (05030118) 631474.06 4175442.06 374.14598 (06102817) 631491.93 4175428.58 346.44891 (07030618) 631474.21 4175414.65 296.55411 (06102817) 631456.50 4175414.35 320.11086 (06102817) 312.97294 (06102817) 631438.78 4175414.05 631421.06 4175413.74 296.67691 (05030118) 318.03222 (04101605) 631403.35 4175413.44 631372.00 4175404.51 334.42318 (08121017) 631371.09 4175381.11 311.11539 (08121017) 279.80065 (04101605) 631383.81 4175366.34 631396.53 4175351.58 257.30882 (04101605) 245.54136 (06102817) 227.35275 (06102817) 631425.06 4175326.73 631440.87 4175316.64 631456.68 4175306.56 204.20810 (06102817) 173.66754 (07030618) 631472.49 4175296.47 631488.30 4175286.39 251.44967 (08081805) 631504.11 4175276.30 238.06832 (08081805) 218.63361 (08081805) 215.91235 (07030618) 631519.92 4175266.22 631535.73 4175256.13 631551.54 4175246.05 223.12593 (04102617) 631579.95 4175222.15 217.56576 (08102618) 221.88359 (08102618) 223.22318 (08102618) 631592.55 4175208.34 631605.15 4175194.53 631617.74 4175180.72 221.57070 (08102618) 631630.34 4175166.91 217.55287 (08102618) 631642.94 4175153.10 211.25723 (08102618) 631655.54 4175139.29 203.35497 (08102618) 631668.14 4175125.47 194.05751 (08102618) 631680.74 4175111.66 188.75278 (05011817) 631693.34 4175097.85 187.73915 (05011817) 631705.94 4175084.04 186.38715 (05011817) 183.91775 (05011817) 631718.53 4175070.23 631731.13 4175056.42 181.32909 (08071406) 178.46625 (08071406) 631773.29 4175020.32 631743.73 4175042.61 168.73119 (08071406) 631790.26 4175011.84 160.30944 (08071406) 631822.21 4174999.50 154.80399 (08090903) 631837.20 4174995.64 163.27461 (08090903) 631852.19 4174991.77 169.61149 (08090903) 179.88359 (08090903) 631866.84 4175007.53 631866.50 4175027.14 184.29706 (08090903) 631866.16 4175046.76 191.51346 (08031018) 631865.83 4175066.37 208.26180 (06052001) 631865.49 4175085.99 226.86644 (06052001) 631865.15 4175105.60 241.49760 (06052001) 631864.81 4175125.22 250.42377 (06052001) 631864.47 4175144.83 254.36500 (05102618) 631864.13 4175164.45 263.40627 (04081924) 631863.80 4175184.06 269.59154 (04081924) 269.90328 (08090905) 631863.46 4175203.68 631863.12 4175223.29 272.87655 (05011317) 311.17507 (05051824) 631862.78 4175242.91 287.91882 (05051824) 631862.44 4175262.52 *** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-977GSBU)\Documents\HRA\Tracy C *** 12/13/23 *** AERMET - VERSION 18081 *** *** *** 15:02:10 **PAGE 244** *** MODELOPTs: CONC ELEV RURAL ADJ U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:

INCLUDING SOURCE(S): STCK8

### *** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3

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X-COORD (M) Y-COORD (M)
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                            214.82555 (08112520)
                                                        631617.32 4175986.46
    631636.70 4175986.62
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                            223.68967 (05072006)
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  *** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-
977GSBU)\Documents\HRA\Tracy C ***
                                        12/13/23
*** AERMET - VERSION 18081 *** ***
                                                                                   15:02:10
                                                               PAGE 245
*** MODELOPTs: CONC ELEV RURAL ADJ U*
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*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:

INCLUDING SOURCE(S): STCK8

### *** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3

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CONC (YYMMDDHH)
   X-COORD (M) Y-COORD (M)
                                                                  X-COORD (M) Y-COORD (M)
                                                                                                  CONC
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                                                                                 267.07195 (08071406)
                            463.01685 (04082919)
    631650.63 4175400.50
                                                         631650.63 4175500.50
                                                                                 684.55768 (05110817)
                            915.70624 (07090902)
                                                                                 650.25175 (07092306)
    631650.63 4175600.50
                                                         631650.63 4175700.50
    631650.63 4175800.50
                            345.96624 (06062806)
                                                         631650.63 4175900.50
                                                                                 228.32328 (05082502)
    631650.63 4176000.50
                            204.72287 (08112520)
                                                         631650.63 4176100.50
                                                                                 154.75298 (06080603)
                            177.08766 (08071406)
                                                                                 231.76261 (08090903)
    631750.63 4175100.50
                                                         631750.63 4175200.50
                            359.72196 (04082919)
    631750.63 4175300.50
                                                         631750.63 4175400.50
                                                                                 443.80530 (05011417)
    631750.63 4175500.50
                            434.65858 (07111901)
                                                         631750.63 4175600.50
                                                                                 717.60475 (07102804)
    631750.63 4175700.50
                            461.84039 (06111908)
                                                        631750.63 4175800.50
                                                                                280.50765 (06052306)
                            228.59411 (06062806)
                                                        631750.63 4176000.50
                                                                                 178.06354 (04050604)
    631750.63 4175900.50
                            157.24916 (06081406)
                                                                                 228.08393 (06052001)
    631750.63 4176100.50
                                                         631850.63 4175100.50
                            276.58995 (04081924)
                                                                                 335.43930 (08090519)
    631850.63 4175200.50
                                                         631850.63 4175300.50
    631850.63 4175400.50
                            324.14860 (08022004)
                                                         631850.63 4175500.50
                                                                                433.42621 (06111919)
    631850.63 4175600.50
                            538.30270 (07102804)
                                                         631850.63 4175700.50
                                                                                 349.18007 (04041919)
  *** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-
977GSBU)\Documents\HRA\Tracy C ***
                                        12/13/23
*** AERMET - VERSION 18081 *** ***
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                                                               PAGE 246
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*** MODELOPTs: CONC ELEV RURAL ADJ U*

STCK8 ***

INCLUDING SOURCE(S): STCK8

### *** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3

```
X-COORD (M) Y-COORD (M)
                                  CONC
                                          (YYMMDDHH)
                                                                X-COORD (M) Y-COORD (M)
                                                                                               CONC
(YYMMDDHH)
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                           254.78805 (05072806)
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                                                                              214.45945 (06052306)
                           182.34591 (06062806)
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                                                       631850.63 4176100.50
                                                                              155.37339 (06062806)
    631950.63 4175100.50
                           227.95244 (08090905)
                                                                              277.14974 (08090519)
                                                       631950.63 4175200.50
    631950.63 4175300.50
                           298.52632 (04042519)
                                                                              273.97932 (07111901)
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                           372.16906 (06091119)
    631950.63 4175500.50
                                                       631950.63 4175600.50
                                                                              417.95087 (07102804)
    631950.63 4175700.50
                           286.35887 (08112619)
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                                                                              281.13842 (06102818)
                           205.32046 (07092306)
                                                                              172.40793 (06052306)
    631950.63 4175900.50
                                                       631950.63 4176000.50
                           148.37660 (06062806)
                                                                              230.13634 (05011417)
    631950.63 4176100.50
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    632050.63 4175200.50
                           253.41063 (05110817)
                                                       632050.63 4175300.50
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    632050.63 4175400.50
                           208.33776 (06112002)
                                                       632050.63 4175500.50
                                                                              298.59152 (07062003)
                           330.84843 (07102804)
                                                                              228.91961 (05080305)
    632050.63 4175600.50
                                                       632050.63 4175700.50
    632050.63 4175800.50
                           258.04486 (06111908)
                                                       632050.63 4175900.50
                                                                              191.27015 (05072806)
                                                       632050.63 4176100.50
    632050.63 4176000.50
                           159.05039 (07092306)
                                                                              147.74024 (06052306)
  *** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-
977GSBU)\Documents\HRA\Tracy C ***
                                       12/13/23
*** AERMET - VERSION 18081 *** ***
                                                                                 15:02:10
                                                             PAGE 247
*** MODELOPTs: CONC ELEV RURAL ADJ U*
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*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:

STCK9 ***

INCLUDING SOURCE(S): STCK9

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3

X-COORD ( (YYMMDDHH	(M) Y-COORD )	O(M) CO	NC (YY	MMDDHH)	X-COORD (M)	Y-COORD	(M)	CONC
632121.21	4174952.36	174.83985	(08030618)	632304.44	4174354.52	100.72881	(080310	18)
632192.15	4174956.32	162.34924	`		4175510.15	185.38036	(060116	519)
632418.97	4175552.92	182.82826	(04042619)	631187.00	4175727.00	213.84573	(050508	(06)
631166.00	4175729.00	218.70774	(05081503)	631121.00	4175719.00	337.63108	(050815	(03)
631035.00	4174830.00	142.87223	(08121017)	631106.00	4174825.00	160.28434	(060111	09)
631937.00	4174528.00	137.81114	(08071406)	631322.00	4174522.00	93.28466	(0808180	05)
629800.63	4173850.44	14.08084 (	06041020)	630150.63	4173850.44	25.50133 (	0401231	7)
630500.63	4173850.44	59.33730 (	06011109)	630850.63	4173850.44	60.04857 (	0610281	7)
631200.63	4173850.44	45.49914 (	08081805)	631550.63	4173850.44	48.56264 (	0703061	8)
631900.63	4173850.44	50.04758 (	07020623)	632250.63	4173850.44	60.28341 (	0602010	(5)
632600.63	4173850.44	54.96654 (	08031018)	632950.63	4173850.44	46.94727 (	0402201	8)
633300.63	4173850.44	38.66380 (	05021018)	629800.63	4174200.44	20.38888 (	0808180	(6)
630150.63	4174200.44	36.30323 (	06041020)	630500.63	4174200.44	60.20761 (	0401231	7)
630850.63	4174200.44	68.06874 (	04101605)	631200.63	4174200.44	68.43250 (	0710081	8)
631550.63	4174200.44	69.14939 (	07030618)	631900.63	4174200.44	98.31323 (	0502180	(4)

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632250.63 4174200.44
                            90.50043 (04122822)
                                                       632600.63 4174200.44
                                                                               69.51640 (05011520)
    632950.63 4174200.44
                            57.00977 (08030618)
                                                       633300.63 4174200.44
                                                                               57.79883 (06011617)
    629800.63 4174550.44
                            40.70546 (06120217)
                                                       630150.63 4174550.44
                                                                               54.06684 (07020624)
    630500.63 4174550.44
                            71.33245 (06041020)
                                                       630850.63 4174550.44
                                                                               109.41276 (06011109)
                            119.77126 (06102817)
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                                                       631550.63 4174550.44
    631900.63 4174550.44
                            148.08596 (05011817)
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                                                                               116.10348 (05011520)
    632600.63 4174550.44
                            90.85307 (08030618)
                                                       632950.63 4174550.44
                                                                               71.63809 (06011617)
    633300.63 4174550.44
                            58.09520 (06120617)
                                                       629800.63 4174900.44
                                                                               43.59402 (04022208)
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                                                       630500.63 4174900.44
                                                                               89.92361 (06120217)
                            65.73502 (06121217)
    630850.63 4174900.44
                            113.94426 (06041020)
                                                       631200.63 4174900.44
                                                                               155.91655 (04101605)
    631550.63 4174900.44
                            168.02540 (04102623)
                                                       631900.63 4174900.44
                                                                               206.78279 (08031018)
                            145.64563 (05102601)
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                                                       632600.63 4174900.44
                                                                               128.33975 (06120617)
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                            90.33499 (05021801)
                                                       633300.63 4174900.44
                                                                               65.86134 (07010217)
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                                                                               81.39966 (08012221)
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                            108.61549 (04022207)
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                                                                               130.77111 (05030320)
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                                                                               300.57687 (06121423)
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                           279.70500 (06102218)
                                                       631900.63 4175600.44
                                                                               264.69733 (06081403)
    632250.63 4175600.44
                           178.92342 (04042619)
                                                       632600.63 4175600.44
                                                                               127.97306 (04042619)
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                            77.88030 (07011518)
                                                       633300.63 4175600.44
                                                                               50.78013 (07011518)
    629800.63 4175950.44
                            61.70798 (06011217)
                                                       630150.63 4175950.44
                                                                               80.20850 (06011217)
  *** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-
977GSBU)\Documents\HRA\Tracy C ***
                                       12/13/23
                                                                           ***
*** AERMET - VERSION 18081 *** ***
                                                                                  15:02:10
                                                              PAGE 248
*** MODELOPTs: CONC ELEV RURAL ADJ U*
               *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:
STCK9
                 INCLUDING SOURCE(S):
                                           STCK9
                       *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                     ** CONC OF OTHER IN MICROGRAMS/M**3
                                                                              **
                                  CONC
   X-COORD (M) Y-COORD (M)
                                                                 X-COORD (M) Y-COORD (M)
                                           (YYMMDDHH)
                                                                                                 CONC
(YYMMDDHH)
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                           241.42264 (04101820)
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                                                       631550.63 4175950.44
    631900.63 4175950.44
                           184.35583 (06062806)
                                                       632250.63 4175950.44
                                                                               114.50069 (05072806)
                                                                               64.39297 (05122401)
                            83.29827 (05020719)
                                                       632950.63 4175950.44
    632600.63 4175950.44
    633300.63 4175950.44
                            46.01619 (08010924)
                                                       629800.63 4176300.44
                                                                               53.29797 (07120622)
                            65.65535 (06122121)
    630150.63 4176300.44
                                                       630500.63 4176300.44
                                                                               103.70155 (07102703)
    630850.63 4176300.44
                            135.17108 (06110118)
                                                       631200.63 4176300.44
                                                                               155.28156 (08091907)
    631550.63 4176300.44
                            111.33443 (06052305)
                                                       631900.63 4176300.44
                                                                               121.29924 (06081406)
    632250.63 4176300.44
                            108.81339 (04101619)
                                                       632600.63 4176300.44
                                                                                77.44871 (08021808)
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                            57.69657 (04121022)
                                                       633300.63 4176300.44
                                                                               43.65832 (04011021)
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630850.63 4176650.44

631550.63 4176650.44

632250.63 4176650.44

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109.52134 (06041021)

83.50580 (06052305)

79.50293 (08102318)

49.36649 (04021520)

103.44995 (04120903)

113.64845 (06033022)

96.76319 (07091007)

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631200.63 4176650.44

631900.63 4176650.44

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632600.63 4176650.44
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    633300.63 4176650.44
                            39.31817 (08122903)
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                                                       630500.63 4177000.44
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                                                       631200.63 4177000.44
    631550.63 4177000.44
                            63.68508 (05112507)
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    632250.63 4177000.44
                            66.12386 (06122319)
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                                                                               73.64513 (06062806)
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                            52.60658 (05010604)
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                            44.65730 (04120903)
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                                                                               58.66915 (06062806)
                            36.80042 (05021219)
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                           481.26291 (07110902)
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                                                       631491.93 4175442.21
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                           434.99787 (07030618)
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                                                                               427.37991 (07110617)
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                                                                               433.01275 (08121017)
    631567.35 4175235.96
                           373.52336 (04102617)
                                                       631756.33 4175028.80
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                           226.06614 (08090903)
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  *** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-
977GSBU)\Documents\HRA\Tracy C ***
                                       12/13/23
                                                                           ***
*** AERMET - VERSION 18081 *** ***
                                                                                  15:02:10
                                                              PAGE 249
*** MODELOPTs: CONC ELEV RURAL ADJ U*
               *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:
STCK9
        ***
                 INCLUDING SOURCE(S):
                                           STCK9
                       *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                     ** CONC OF OTHER IN MICROGRAMS/M**3
   X-COORD (M) Y-COORD (M)
                                                                X-COORD (M) Y-COORD (M)
                                  CONC
                                           (YYMMDDHH)
                                                                                                 CONC
(YYMMDDHH)
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    631315.67 4175464.28
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518.23522 (04041821)

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    631551.54 4175246.05
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                                                        631579.95 4175222.15
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                           361.95388 (08102618)
                                                                               349.41914 (08102618)
    631592.55 4175208.34
                                                        631605.15 4175194.53
    631617.74 4175180.72
                           335.00272 (05011817)
                                                        631630.34 4175166.91
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                           322.59363 (05011817)
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    631866.16 4175046.76
                           228.38762 (08031018)
                                                        631865.83 4175066.37
                                                                               229.72729 (08081804)
    631865.49 4175085.99
                           233.68360 (08081804)
                                                        631865.15 4175105.60
                                                                               241.40593 (08090902)
    631864.81 4175125.22
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                                                                               272.68257 (08090906)
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                           280.00742 (08090906)
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                           290.09475 (06111018)
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  *** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-
977GSBU)\Documents\HRA\Tracy C ***
                                       12/13/23
                                                                           ***
*** AERMET - VERSION 18081 *** ***
                                                                                  15:02:10
                                                              PAGE 250
*** MODELOPTS: CONC ELEV RURAL ADJ U*
               *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:
STCK9
                 INCLUDING SOURCE(S):
                                            STCK9
                        *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                     ** CONC OF OTHER IN MICROGRAMS/M**3
                                   CONC
                                                                 X-COORD (M) Y-COORD (M)
   X-COORD (M) Y-COORD (M)
                                           (YYMMDDHH)
                                                                                                 CONC
(YYMMDDHH)
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                                                                               370.70038 (07062004)
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                                                        631860.41 4175380.21
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                           521.07892 (08112505)
                                                        631857.70 4175537.13
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                           340.42599 (08021518)
                                                        631857.03 4175576.36
                                                                               308.25017 (07102907)
                                                                               257.20146 (06111908)
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229.15960 (06102818)

213.77257 (07112517)

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                                                                               192.49697 (06052306)
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                            182.03600 (06052306)
                                                        631852.29 4175850.97
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                            180.06749 (04101619)
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                           356.98271 (07090905)
                                                                               357.99927 (06102618)
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    631287.80 4175983.89
                           324.92517 (07110903)
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                                                                               152.43139 (05111717)
                           176.00981 (05072102)
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                           247.75572 (05030401)
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                           203.44649 (05081503)
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                                                                               191.52059 (07080103)
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                           188.01090 (04110906)
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                           202.74676 (04012317)
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  *** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-
977GSBU)\Documents\HRA\Tracy C ***
                                       12/13/23
*** AERMET - VERSION 18081 *** ***
                                                                                  15:02:10
                                                              PAGE 251
*** MODELOPTs: CONC ELEV RURAL ADJ U*
               *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:
STCK9
                                           STCK9
                 INCLUDING SOURCE(S):
                       *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                     ** CONC OF OTHER IN MICROGRAMS/M**3
   X-COORD (M) Y-COORD (M)
                                                                X-COORD (M) Y-COORD (M)
                                  CONC
                                           (YYMMDDHH)
                                                                                                 CONC
(YYMMDDHH)
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                                                                               191.41121 (07090905)
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                                                                               260.66878 (06011109)
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                           192.93349 (05112506)
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                           231.75834 (06102817)
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                                                                               438.63842 (06102817)
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                           386.24938 (08090519)
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                                                                               175.16175 (06110304)
    631750.63 4175900.50
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  *** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-
977GSBU)\Documents\HRA\Tracy C ***
                                       12/13/23
*** AERMET - VERSION 18081 *** ***
                                                                                  15:02:10
                                                              PAGE 252
*** MODELOPTs: CONC ELEV RURAL ADJ U*
               *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:
STCK9
                 INCLUDING SOURCE(S):
                                           STCK9
                       *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                     ** CONC OF OTHER IN MICROGRAMS/M**3
   X-COORD (M) Y-COORD (M)
                                  CONC
                                                                X-COORD (M) Y-COORD (M)
                                           (YYMMDDHH)
                                                                                                CONC
(YYMMDDHH)
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  *** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-
977GSBU)\Documents\HRA\Tracy C ***
                                       12/13/23
*** AERMET - VERSION 18081 *** ***
                                                                                  15:02:10
                                                              PAGE 253
*** MODELOPTS: CONC ELEV RURAL ADJ U*
               *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:
SLINE6 ***
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                                                      , L0002349
                                                                  , L0002350
                 INCLUDING SOURCE(S):
                                                                              , L0002351
                                                                                          , L0002352
        L0002353
                   , L0002354
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                                                                              , L0002367
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                                                      , L0002373
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                                                                              , L0002375
        L0002369
                       *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                     ** CONC OF OTHER IN MICROGRAMS/M**3
                                                                              **
   X-COORD (M) Y-COORD (M)
                                   CONC
                                           (YYMMDDHH)
                                                                 X-COORD (M) Y-COORD (M)
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(YYMMDDHH)
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    631937.00 4174528.00
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                            15.15011 (08121017)
                                                       630850.63 4173850.44
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                            19.67417 (05021806)
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    631900.63 4173850.44
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977GSBU)\Documents\HRA\Tracy C ***
                                       12/13/23
*** AERMET - VERSION 18081 *** ***
                                                                                  15:02:10
                                                              PAGE 254
*** MODELOPTs: CONC ELEV RURAL ADJ U*
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                                                                              . L0002375
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  *** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-
977GSBU)\Documents\HRA\Tracy C ***
                                       12/13/23
*** AERMET - VERSION 18081 *** ***
                                                                                  15:02:10
                                                              PAGE 255
*** MODELOPTS: CONC ELEV RURAL ADJ U*
               *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:
SLINE6 ***
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                                                                  , L0002374
                                                                              , L0002375
                       *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                     ** CONC OF OTHER IN MICROGRAMS/M**3
                                  CONC
                                                                X-COORD (M) Y-COORD (M)
   X-COORD (M) Y-COORD (M)
                                           (YYMMDDHH)
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(YYMMDDHH)
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977GSBU)\Documents\HRA\Tracy C ***
                                       12/13/23
*** AERMET - VERSION 18081 *** ***
                                                                                  15:02:10
                                                              PAGE 256
*** MODELOPTs: CONC ELEV RURAL ADJ U*
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                                                                  , L0002374
                                                                              , L0002375
                       *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                     ** CONC OF OTHER IN MICROGRAMS/M**3
   X-COORD (M) Y-COORD (M)
                                                                 X-COORD (M) Y-COORD (M)
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                                                                                                 CONC
(YYMMDDHH)
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                                                                               332.25335 (05122402)
    631856.69 4175595.98
                                                       631856.35 4175615.59
    631856.01 4175635.21
                           334.11185 (05122402)
                                                       631855.67 4175654.82
                                                                               336.02177 (05122402)
                           337.79780 (05122402)
                                                       631855.00 4175694.05
    631855.33 4175674.44
                                                                               338.99717 (05122402)
    631854.66 4175713.67
                           340.40333 (05122402)
                                                        631854.32 4175733.28
                                                                               341.73200 (04121818)
                           343.25023 (04121818)
                                                                               344.92332 (04121818)
    631853.98 4175752.90
                                                        631853.64 4175772.51
    631853.30 4175792.13
                           346.93623 (06020918)
                                                        631852.97 4175811.74
                                                                               349.43465 (06020918)
    631852.63 4175831.36
                           351.62504 (06020918)
                                                        631852.29 4175850.97
                                                                               353.54772 (06020918)
    631851.95 4175870.59
                           354.28511 (06020918)
                                                        631851.61 4175890.20
                                                                               354.71150 (06020918)
    631851.27 4175909.82
                           354.72478 (06020918)
                                                        631850.94 4175929.43
                                                                               354.67075 (06020918)
    631850.60 4175949.05
                           354.15391 (06020918)
                                                       631850.26 4175968.66
                                                                               352.31693 (06020918)
    631830.54 4175988.13
                           424.84490 (07021219)
                                                       631811.15 4175987.98
                                                                               267.38670 (08011009)
    631791.77 4175987.83
                           203.27249 (08011009)
                                                       631772.39 4175987.67
                                                                               162.93733 (08011009)
                           134.88913 (08011009)
    631753.00 4175987.52
                                                       631733.62 4175987.37
                                                                               113.76406 (08011009)
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631714.24 4175987.22
                            97.08991 (05010917)
                                                                                86.66304 (05010917)
                                                       631694.85 4175987.07
    631675.47 4175986.92
                            78.31055 (07021218)
                                                       631656.09 4175986.77
                                                                                73.22288 (07021218)
    631636.70 4175986.62
                                                                                79.84973 (05022620)
                            73.76411 (07022408)
                                                       631617.32 4175986.46
    631597.94 4175986.31
                            88.04409 (06020201)
                                                       631578.55 4175986.16
                                                                                98.75600 (06012820)
                            113.15685 (04020619)
                                                                                133.57335 (04121819)
    631559.17 4175986.01
                                                        631539.79 4175985.86
    631520.40 4175985.71
                            164.44919 (05122402)
                                                        631501.02 4175985.56
                                                                                220.36747 (05122402)
                            340.47910 (06020918)
                                                                                432.47838 (07021219)
    631481.64 4175985.40
                                                        631462.25 4175985.25
                            284.68373 (08011009)
                                                                                218.94424 (08011009)
    631442.87 4175985.10
                                                        631423.49 4175984.95
    631404.10 4175984.80
                            176.99336 (08011009)
                                                        631384.72 4175984.65
                                                                                146.46032 (08011009)
    631365.34 4175984.50
                            123.29439 (05010917)
                                                        631345.95 4175984.35
                                                                                110.77221 (07021218)
    631326.57 4175984.19
                            101.92238 (07021218)
                                                        631307.19 4175984.04
                                                                                94.45980 (07021218)
    631287.80 4175983.89
                            87.86897 (07021218)
                                                       631050.63 4175100.50
                                                                                90.57996 (06020109)
                            77.40581 (06020109)
                                                       631050.63 4175300.50
                                                                                74.11455 (06020109)
    631050.63 4175200.50
    631050.63 4175400.50
                            74.29000 (06020109)
                                                                                74.23446 (06020109)
                                                       631050.63 4175500.50
    631050.63 4175600.50
                            71.08965 (06020109)
                                                       631050.63 4175700.50
                                                                                58.56972 (06122121)
                                                                                52.29650 (04021521)
    631050.63 4175800.50
                            57.27689 (04121304)
                                                       631050.63 4175900.50
    631050.63 4176000.50
                            50.86131 (04021521)
                                                       631050.63 4176100.50
                                                                                50.23896 (04120903)
                                                       631150.63 4175200.50
    631150.63 4175100.50
                            96.83654 (06020109)
                                                                                81.73065 (06020109)
    631150.63 4175300.50
                            80.22620 (05122618)
                                                       631150.63 4175400.50
                                                                                81.76584 (06011024)
  *** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-
977GSBU)\Documents\HRA\Tracy C ***
                                        12/13/23
*** AERMET - VERSION 18081 *** ***
                                                                                   15:02:10
                                                              PAGE 257
*** MODELOPTs: CONC ELEV RURAL ADJ U*
                *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:
SLINE6 ***
                                                                              , L0002351
                 INCLUDING SOURCE(S):
                                            L0002348
                                                      , L0002349
                                                                  , L0002350
                                                                                          , L0002352
                               , L0002355
                                           , L0002356
        L0002353
                   , L0002354
                                                       , L0002357
                                                                   , L0002358
                                                                              , L0002359
                                                                                          , L0002360
         L0002361
                   , L0002362
                               , L0002363
                                           , L0002364
                                                       , L0002365
                                                                   , L0002366
                                                                              , L0002367
                                                                                          , L0002368
         L0002369
                   , L0002370
                              , L0002371
                                           , L0002372
                                                       , L0002373
                                                                   , L0002374
                                                                              , L0002375
                       *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                     ** CONC OF OTHER IN MICROGRAMS/M**3
                                                                               **
                                   CONC
                                                                 X-COORD (M) Y-COORD (M)
   X-COORD (M) Y-COORD (M)
                                           (YYMMDDHH)
                                                                                                 CONC
(YYMMDDHH)
    631150.63 4175500.50
                            77.00376 (06020109)
                                                       631150.63 4175600.50
                                                                                76.01061 (06020109)
    631150.63 4175700.50
                            67.39977 (06020109)
                                                       631150.63 4175800.50
                                                                                63.31765 (04021521)
    631150.63 4175900.50
                            61.01662 (04120903)
                                                       631150.63 4176000.50
                                                                                59.94113 (04120903)
                                                                                97.40474 (06020109)
    631150.63 4176100.50
                            59.30670 (04120908)
                                                       631250.63 4175100.50
    631250.63 4175200.50
                            88.66952 (06020109)
                                                       631250.63 4175300.50
                                                                               100.98961 (05122618)
    631250.63 4175400.50
                            100.02448 (06011024)
                                                        631250.63 4175500.50
                                                                                91.52906 (07120622)
    631250.63 4175600.50
                            84.05460 (04021520)
                                                                                79.74313 (04010518)
                                                       631250.63 4175700.50
                            78.18764 (04120903)
    631250.63 4175800.50
                                                       631250.63 4175900.50
                                                                                77.04509 (07122917)
    631250.63 4176000.50
                            76.60721 (07021218)
                                                       631250.63 4176100.50
                                                                                76.50400 (07021218)
    631350.63 4175100.50
                            105.12483 (08022002)
                                                        631350.63 4175200.50
                                                                                115.24954 (04022207)
                                                        631350.63 4175400.50
                                                                                144.21466 (07120622)
    631350.63 4175300.50
                            137.03984 (05122618)
                            127.45936 (04021521)
                                                        631350.63 4175600.50
                                                                                118.76147 (04120908)
    631350.63 4175500.50
                            118.18446 (07122917)
                                                                                118.84501 (07021218)
    631350.63 4175700.50
                                                        631350.63 4175800.50
    631350.63 4175900.50
                            116.24616 (07021218)
                                                        631350.63 4176000.50
                                                                                112.56291 (07021218)
    631350.63 4176100.50
                            109.85029 (08011009)
                                                        631450.63 4175100.50
                                                                                136.25818 (05010417)
    631450.63 4175200.50
                            179.37838 (05122422)
                                                        631450.63 4175300.50
                                                                                272.11111 (06121420)
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631450.63 4175500.50

297.87883 (08011009)

293.60180 (06121420)

631450.63 4175400.50

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                           324.24960 (08011009)
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                                                                               330.91214 (08011009)
                           332.82384 (08011009)
                                                                               332.14891 (08011009)
    631450.63 4175800.50
                                                        631450.63 4175900.50
                           319.57184 (08011009)
                                                                               190.89854 (05121702)
    631450.63 4176000.50
                                                        631450.63 4176100.50
    631550.63 4175100.50
                           173.92495 (07012317)
                                                        631550.63 4175200.50
                                                                               239.10174 (07012317)
    631550.63 4175300.50
                           284.42005 (06011109)
                                                                               180.00571 (06011109)
                                                        631550.63 4175400.50
    631550.63 4175500.50
                           164.03545 (06011109)
                                                        631550.63 4175600.50
                                                                               152.89001 (06011109)
    631550.63 4175700.50
                           143.15386 (06011109)
                                                        631550.63 4175800.50
                                                                               133.52148 (06011109)
                            123.90393 (04020619)
    631550.63 4175900.50
                                                        631550.63 4176000.50
                                                                               120.71502 (04021506)
    631550.63 4176100.50
                            113.60352 (05021302)
                                                                               143.37583 (07011417)
                                                        631650.63 4175100.50
    631650.63 4175200.50
                           197.32582 (04022018)
                                                        631650.63 4175300.50
                                                                               209.95928 (06011109)
    631650.63 4175400.50
                           139.64170 (06011109)
                                                        631650.63 4175500.50
                                                                               125.80264 (06011109)
                            117.93561 (06011109)
                                                                               109.49389 (06011109)
    631650.63 4175600.50
                                                        631650.63 4175700.50
    631650.63 4175800.50
                            100.89292 (06011109)
                                                        631650.63 4175900.50
                                                                                86.54462 (06011109)
    631650.63 4176000.50
                            71.59319 (07021218)
                                                       631650.63 4176100.50
                                                                               68.50675 (07012720)
    631750.63 4175100.50
                           177.57084 (08022002)
                                                       631750.63 4175200.50
                                                                               216.63550 (05012117)
                           213.16946 (06011109)
                                                                               155.32528 (06011109)
    631750.63 4175300.50
                                                        631750.63 4175400.50
                                                                               142.56890 (06011109)
    631750.63 4175500.50
                           146.24711 (06011109)
                                                        631750.63 4175600.50
                           138.09305 (06011109)
                                                                               129.84487 (06011109)
    631750.63 4175700.50
                                                        631750.63 4175800.50
                           131.32543 (08011009)
                                                                               131.80473 (08011009)
    631750.63 4175900.50
                                                        631750.63 4176000.50
    631750.63 4176100.50
                           128.53513 (08011009)
                                                        631850.63 4175100.50
                                                                               169.04431 (05021805)
    631850.63 4175200.50
                           295.25071 (07012317)
                                                        631850.63 4175300.50
                                                                               502.56203 (07012317)
    631850.63 4175400.50
                           466.88511 (07012317)
                                                        631850.63 4175500.50
                                                                               434.34379 (07012317)
    631850.63 4175600.50
                           400.18529 (07012317)
                                                        631850.63 4175700.50
                                                                               383.30319 (06020918)
  *** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-
977GSBU)\Documents\HRA\Tracy C ***
                                       12/13/23
*** AERMET - VERSION 18081 *** ***
                                                                                  15:02:10
                                                              PAGE 258
*** MODELOPTs: CONC ELEV RURAL ADJ U*
               *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:
SLINE6 ***
                 INCLUDING SOURCE(S): L0002348
                                                      , L0002349
                                                                  , L0002350
                                                                              , L0002351
                                                                                         , L0002352
                                           , L0002356
                                                                  , L0002358
                                                                                          , L0002360
                              . L0002355
                                                      , L0002357
                                                                              , L0002359
         L0002353
                   . L0002354
        L0002361
                   , L0002362
                               , L0002363
                                           , L0002364
                                                      , L0002365
                                                                  , L0002366
                                                                              , L0002367
                                                                                          , L0002368
        L0002369
                   , L0002370
                               , L0002371
                                           , L0002372
                                                      , L0002373
                                                                  , L0002374
                                                                              , L0002375
                       *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                     ** CONC OF OTHER IN MICROGRAMS/M**3
   X-COORD (M) Y-COORD (M)
                                   CONC
                                           (YYMMDDHH)
                                                                 X-COORD (M) Y-COORD (M)
                                                                                                 CONC
(YYMMDDHH)
                           374.27529 (06020918)
                                                                               362.91516 (06020918)
    631850.63 4175800.50
                                                        631850.63 4175900.50
    631850.63 4176000.50
                           326.19740 (06020918)
                                                        631850.63 4176100.50
                                                                               187.39055 (08122707)
                           110.10068 (07011417)
    631950.63 4175100.50
                                                                               151.38699 (07010217)
                                                        631950.63 4175200.50
    631950.63 4175300.50
                           176.56331 (07012418)
                                                        631950.63 4175400.50
                                                                               153.54353 (08021808)
                           140.82876 (08021908)
                                                                               131.98704 (07022408)
    631950.63 4175500.50
                                                        631950.63 4175600.50
    631950.63 4175700.50
                           123.43469 (07022408)
                                                        631950.63 4175800.50
                                                                               118.29369 (06122319)
    631950.63 4175900.50
                            116.25190 (08021908)
                                                        631950.63 4176000.50
                                                                               112.86253 (07022408)
    631950.63 4176100.50
                            104.29139 (04020619)
                                                        632050.63 4175100.50
                                                                                90.42083 (06011617)
    632050.63 4175200.50
                            107.26336 (07010217)
                                                        632050.63 4175300.50
                                                                               112.92574 (07011518)
    632050.63 4175400.50
                            100.68078 (05122401)
                                                        632050.63 4175500.50
                                                                               101.99913 (08021808)
    632050.63 4175600.50
                            97.09849 (08021908)
                                                       632050.63 4175700.50
                                                                               90.32844 (07022408)
    632050.63 4175800.50
                            86.04275 (07022408)
                                                       632050.63 4175900.50
                                                                               82.53519 (08021908)
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632050.63 4176100.50

78.50061 (07022408)

81.76679 (08021908)

632050.63 4176000.50

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*** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-
977GSBU)\Documents\HRA\Tracy C ***
                                      12/13/23
*** AERMET - VERSION 18081 *** ***
                                                                        ***
                                                                               15:02:10
                                                            PAGE 259
*** MODELOPTs: CONC ELEV RURAL ADJ U*
                    *** THE SUMMARY OF MAXIMUM PERIOD ( 43848 HRS) RESULTS ***
                  ** CONC OF OTHER IN MICROGRAMS/M**3
                                                       NETWORK
GROUP ID
                    AVERAGE CONC
                                            RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG) OF TYPE
GRID-ID
SLINE2 1ST HIGHEST VALUE IS
                                  66.31151 AT ( 631404.10, 4175984.80, 51.55, 51.55, 0.00) DC
     2ND HIGHEST VALUE IS
                              66.10402 AT ( 631423.49, 4175984.95, 51.35, 51.35, 0.00) DC
                              66.00761 AT ( 631384.72, 4175984.65, 51.75, 51.75,
                                                                                0.00) DC
     3RD HIGHEST VALUE IS
                              65.47307 AT ( 631365.34, 4175984.50, 51.95, 51.95,
     4TH HIGHEST VALUE IS
                                                                                0.00) DC
                              64.78416 AT ( 631345.95, 4175984.35, 52.13, 52.13,
                                                                                0.00) DC
     5TH HIGHEST VALUE IS
                              64.31292 AT ( 631442.87, 4175985.10,
     6TH HIGHEST VALUE IS
                                                                 51.15, 51.15,
                                                                                0.00) DC
     7TH HIGHEST VALUE IS
                              64.03887 AT ( 631326.57, 4175984.19,
                                                                 52.32, 52.32,
                                                                                0.00) DC
     8TH HIGHEST VALUE IS
                              63.29748 AT ( 631307.19, 4175984.04, 52.51, 52.51,
                                                                                0.00) DC
     9TH HIGHEST VALUE IS
                              62.60280 AT ( 631287.80, 4175983.89, 52.70, 52.70,
                                                                                0.00) DC
                               62.01476 AT ( 631268.42, 4175983.74, 52.85, 52.85,
                                                                                0.00) DC
    10TH HIGHEST VALUE IS
                                  58.07436 AT ( 631462.25, 4175985.25, 50.94, 50.94, 0.00) DC
SLINE5 1ST HIGHEST VALUE IS
                               57.61705 AT ( 631423.49, 4175984.95, 51.35, 51.35, 0.00) DC
     2ND HIGHEST VALUE IS
     3RD HIGHEST VALUE IS
                              57.42161 AT ( 631404.10, 4175984.80, 51.55,
                                                                        51.55,
                                                                                0.00) DC
     4TH HIGHEST VALUE IS
                              57.21055 AT ( 631384.72, 4175984.65,
                                                                 51.75,
                                                                        51.75,
                                                                                0.00) DC
                                                                                0.00) DC
     5TH HIGHEST VALUE IS
                              57.01399 AT ( 631365.34, 4175984.50, 51.95, 51.95,
                              56.78362 AT ( 631345.95, 4175984.35,
                                                                 52.13, 52.13,
                                                                                0.00) DC
     6TH HIGHEST VALUE IS
                              56.68860 AT ( 631753.00, 4175987.52, 47.78, 47.78,
                                                                                0.00) DC
     7TH HIGHEST VALUE IS
                                                                                0.00) DC
                              56.53693 AT ( 631326.57, 4175984.19, 52.32, 52.32,
     8TH HIGHEST VALUE IS
     9TH HIGHEST VALUE IS
                              56.31581 AT ( 631307.19, 4175984.04, 52.51, 52.51,
                                                                                0.00) DC
                               56.14816 AT ( 631287.80, 4175983.89, 52.70, 52.70, 0.00) DC
    10TH HIGHEST VALUE IS
STCK1
        1ST HIGHEST VALUE IS
                                  38.85379 AT ( 631852.97, 4175811.74, 48.28, 48.28, 0.00) DC
     2ND HIGHEST VALUE IS
                               36.87385 AT ( 631850.63, 4175800.50, 48.39, 48.39, 0.00) DC
     3RD HIGHEST VALUE IS
                              29.84603 AT ( 631853.30, 4175792.13, 48.42, 48.42,
                                                                                0.00) DC
     4TH HIGHEST VALUE IS
                              27.50098 AT ( 631852.63, 4175831.36,
                                                                 48.13,
                                                                        48.13,
                                                                                0.00) DC
                                                                 47.20, 47.20,
                                                                                0.00) DC
     5TH HIGHEST VALUE IS
                              26.67452 AT ( 631950.63, 4175800.50,
     6TH HIGHEST VALUE IS
                              19.42071 AT ( 631750.63, 4175800.50,
                                                                 49.49, 49.49,
                                                                                0.00) DC
     7TH HIGHEST VALUE IS
                              17.61676 AT ( 632050.63, 4175800.50,
                                                                 46.18, 46.18,
                                                                                0.00) DC
     8TH HIGHEST VALUE IS
                              17.04760 AT ( 631852.29, 4175850.97,
                                                                 47.98, 47.98,
                                                                                0.00) DC
     9TH HIGHEST VALUE IS
                              12.42407 AT ( 631851.95, 4175870.59, 47.78,
                                                                        47.78,
                                                                                0.00) DC
                               11.56215 AT ( 631853.64, 4175772.51, 48.59, 48.59,
    10TH HIGHEST VALUE IS
                                                                                0.00) DC
STCK10 1ST HIGHEST VALUE IS
                                  19.36537 AT ( 631850.63, 4175400.50, 51.79, 51.79, 0.00) DC
                               17.76356 AT ( 631860.07, 4175399.83, 51.66, 51.66,
                                                                                0.00) DC
     2ND HIGHEST VALUE IS
                                                                 51.86,
                                                                        51.86,
                                                                                0.00) DC
     3RD HIGHEST VALUE IS
                               17.48568 AT ( 631860.41, 4175380.21,
                              17.40776 AT ( 631491.93, 4175414.95,
                                                                 56.00, 56.00,
                                                                                0.00) DC
     4TH HIGHEST VALUE IS
                              16.15088 AT ( 631859.73, 4175419.44,
                                                                 51.47, 51.47,
                                                                                0.00) DC
     5TH HIGHEST VALUE IS
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file:///C/...977GSBU)/Documents/HRA/Tracy%20Costco%20DepotV4%20-%20OP/Tracy%20Costco%20V3/Tracy%20Costco%20V3.ADO.txt[12/18/2023 11:20:47 AM]

13.61148 AT ( 631861.09, 4175340.98, 52.27, 52.27,

15.81923 AT ( 631860.75, 4175360.60,

**6TH HIGHEST VALUE IS** 

7TH HIGHEST VALUE IS

52.05,

52.05,

0.00) DC

0.00) DC

8TH HIGHEST VALUE IS 13.56721 AT ( 631491.93, 4175428.58, 55.88, 55.88, 0.00) DC 0.00) DC 9TH HIGHEST VALUE IS 13.51182 AT ( 631859.40, 4175439.06, 51.30, 51.30, 12.65246 AT ( 631474.21, 4175414.65, 56.22, 56.22, 10TH HIGHEST VALUE IS 0.00) DC *** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-977GSBU)\Documents\HRA\Tracv C *** 12/13/23 *** AERMET - VERSION 18081 *** 15:02:10 **PAGE 260** *** MODELOPTs: CONC ELEV RURAL ADJ U* *** THE SUMMARY OF MAXIMUM PERIOD ( 43848 HRS) RESULTS *** ** ** CONC OF OTHER IN MICROGRAMS/M**3 **NETWORK** RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG) OF TYPE **GROUP ID** AVERAGE CONC **GRID-ID** STCK11 1ST HIGHEST VALUE IS 89.62466 AT ( 631450.63, 4175700.50, 53.94, 53.94, 0.00) DC 0.00) DC 76.65073 AT ( 631550.63, 4175700.50, 52.78, 52.78, 2ND HIGHEST VALUE IS 3RD HIGHEST VALUE IS 36.82998 AT ( 631417.17, 4175673.66, 54.62, 54.62, 0.00) DC 4TH HIGHEST VALUE IS 30.86072 AT ( 631650.63, 4175700.50, 51.65, 51.65, 0.00) DC 29.44903 AT ( 631350.63, 4175700.50, 0.00) DC **5TH HIGHEST VALUE IS** 55.09, 55.09, 0.00) DC **6TH HIGHEST VALUE IS** 19.49968 AT ( 631669.80, 4175641.41, 51.98, 51.98, 18.73647 AT ( 631750.63, 4175700.50, 0.00) DC 7TH HIGHEST VALUE IS 50.55, 50.55, 8TH HIGHEST VALUE IS 16.92902 AT ( 631550.63, 4175600.50, 53.80, 53.80, 0.00) DC 0.00) DC 9TH HIGHEST VALUE IS 16.91821 AT ( 631550.63, 4175600.44, 53.80, 53.80, 16.08720 AT ( 631650.63, 4175600.50, 52.59, 52.59, 0.00) DC 10TH HIGHEST VALUE IS STCK12 1ST HIGHEST VALUE IS 97.89700 AT ( 631450.63, 4175600.50, 54.98, 54.98, 0.00) DC 74.96768 AT ( 631550.63, 4175600.44, 53.80, 53.80, 0.00) DC 2ND HIGHEST VALUE IS 3RD HIGHEST VALUE IS 74.92348 AT ( 631550.63, 4175600.50, 53.80, 53.80, 0.00) DC 4TH HIGHEST VALUE IS 30.12070 AT ( 631650.63, 4175600.50, 52.59, 52.59, 0.00) DC 27.44940 AT ( 631350.63, 4175600.50, 0.00) DC **5TH HIGHEST VALUE IS** 56.17, 56.17, **6TH HIGHEST VALUE IS** 24.63289 AT ( 631550.63, 4175500.50, 54.61, 54.61, 0.00) DC 7TH HIGHEST VALUE IS 18.54888 AT ( 631750.63, 4175600.50, 51.42, 51.42, 0.00) DC 8TH HIGHEST VALUE IS 18.48364 AT ( 631417.17, 4175673.66, 54.62, 54.62, 0.00) DC 51.98, 51.98, 0.00) DC 9TH HIGHEST VALUE IS 17.21338 AT ( 631669.80, 4175641.41, 0.00) DC 13.86785 AT ( 631350.63, 4175700.50, 55.09, 55.09, 10TH HIGHEST VALUE IS STCK13 1ST HIGHEST VALUE IS 48.58465 AT ( 631450.63, 4175700.50, 53.94, 53.94, 0.00) DC 0.00) DC 2ND HIGHEST VALUE IS 41.02337 AT ( 631417.17, 4175673.66, 54.62, 54.62, 55.09, 55.09, 38.00805 AT ( 631350.63, 4175700.50, 0.00) DC 3RD HIGHEST VALUE IS 29.78273 AT ( 631272.85, 4175703.89, 56.37, 56.37, 0.00) DC 4TH HIGHEST VALUE IS 0.00) DC 28.77081 AT ( 631550.63, 4175700.50, 52.78, 52.78, **5TH HIGHEST VALUE IS** 26.59424 AT ( 631272.53, 4175723.88, 0.00) DC 6TH HIGHEST VALUE IS 56.05, 56.05, 26.58261 AT (631273.16, 4175683.90, 56.73, 0.00) DC 7TH HIGHEST VALUE IS 56.73, 8TH HIGHEST VALUE IS 24.67377 AT ( 631250.63, 4175700.50, 56.69, 0.00) DC 56.69, 9TH HIGHEST VALUE IS 20.26888 AT ( 631272.21, 4175743.87, 55.80, 0.00) DC 55.80, 10TH HIGHEST VALUE IS 19.68407 AT ( 631273.48, 4175663.91, 57.08, 57.08, 0.00) DC STCK14 1ST HIGHEST VALUE IS 45.76124 AT ( 631450.63, 4175600.50, 54.98, 54.98, 0.00) DC 0.00) DC 2ND HIGHEST VALUE IS 34.55624 AT ( 631350.63, 4175600.50, 56.17, 56.17, 3RD HIGHEST VALUE IS 28.52918 AT ( 631550.63, 4175600.44, 53.80, 53.80, 0.00) DC 4TH HIGHEST VALUE IS 28.52917 AT ( 631550.63, 4175600.50, 53.80, 53.80, 0.00) DC

```
0.00) DC
     5TH HIGHEST VALUE IS
                              27.48484 AT ( 631274.43, 4175603.95, 57.52, 57.52,
     6TH HIGHEST VALUE IS
                              26.31798 AT ( 631274.74, 4175583.96, 58.04,
                                                                        58.04,
                                                                                0.00) DC
                                                                                0.00) DC
                              21.17556 AT ( 631274.11, 4175623.94, 57.18,
     7TH HIGHEST VALUE IS
                                                                        57.18,
     8TH HIGHEST VALUE IS
                              20.27361 AT ( 631250.63, 4175600.50,
                                                                 58.44, 58.44,
                                                                                0.00) DC
                              19.50864 AT ( 631275.06, 4175563.97, 58.80, 58.80,
     9TH HIGHEST VALUE IS
                                                                                0.00) DC
    10TH HIGHEST VALUE IS
                               16.25790 AT ( 631650.63, 4175600.50, 52.59, 52.59,
                                                                                0.00) DC
 *** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-
977GSBU)\Documents\HRA\Tracy C ***
                                      12/13/23
*** AERMET - VERSION 18081 ***
                                                                               15:02:10
                                                            PAGE 261
*** MODELOPTs: CONC ELEV RURAL ADJ U*
                    *** THE SUMMARY OF MAXIMUM PERIOD ( 43848 HRS) RESULTS ***
                                                                          **
                  ** CONC OF OTHER IN MICROGRAMS/M**3
                                                       NETWORK
GROUP ID
                    AVERAGE CONC RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG) OF TYPE
GRID-ID
                                  68.51847 AT ( 631850.63, 4175700.50, 49.34, 49.34, 0.00) DC
STCK2 1ST HIGHEST VALUE IS
                               63.82604 AT ( 631855.00, 4175694.05, 49.31, 49.31, 0.00) DC
     2ND HIGHEST VALUE IS
     3RD HIGHEST VALUE IS
                               62.97234 AT ( 631854.66, 4175713.67,
                                                                 49.14,
                                                                        49.14,
                                                                                0.00) DC
                              50.80074 AT ( 631750.63, 4175700.50,
                                                                         50.55,
                                                                                0.00) DC
     4TH HIGHEST VALUE IS
                                                                 50.55,
     5TH HIGHEST VALUE IS
                              32.40446 AT ( 631855.33, 4175674.44,
                                                                 49.49,
                                                                        49.49,
                                                                                0.00) DC
                              31.45281 AT ( 631950.63, 4175700.50,
                                                                 48.14, 48.14,
                                                                                0.00) DC
     6TH HIGHEST VALUE IS
                              31.28295 AT ( 631854.32, 4175733.28,
                                                                 48.96,
                                                                                0.00) DC
     7TH HIGHEST VALUE IS
                                                                        48.96,
                              20.64246 AT ( 631650.63, 4175700.50,
                                                                  51.65, 51.65,
                                                                                0.00) DC
     8TH HIGHEST VALUE IS
     9TH HIGHEST VALUE IS
                              19.36157 AT ( 632050.63, 4175700.50,
                                                                 47.30, 47.30,
                                                                                0.00) DC
                               18.94182 AT ( 631855.67, 4175654.82, 49.65, 49.65, 0.00) DC
    10TH HIGHEST VALUE IS
STCK3
        1ST HIGHEST VALUE IS
                                  66.01396 AT ( 631850.63, 4175600.50, 50.21, 50.21, 0.00) DC
                               62.20710 AT ( 631856.69, 4175595.98, 50.14, 50.14,
                                                                                0.00) DC
     2ND HIGHEST VALUE IS
                               54.57697 AT ( 631900.63, 4175600.44, 49.49, 49.49,
                                                                                0.00) DC
     3RD HIGHEST VALUE IS
                              54.45909 AT ( 631750.63, 4175600.50,
                                                                  51.42,
                                                                        51.42,
                                                                                0.00) DC
     4TH HIGHEST VALUE IS
                              52.42388 AT ( 631856.35, 4175615.59,
                                                                  49.98, 49.98,
                                                                                0.00) DC
     5TH HIGHEST VALUE IS
     6TH HIGHEST VALUE IS
                              44.86117 AT ( 631857.03, 4175576.36,
                                                                  50.29,
                                                                        50.29,
                                                                                0.00) DC
     7TH HIGHEST VALUE IS
                              34.16625 AT ( 631950.63, 4175600.50,
                                                                  49.06,
                                                                        49.06,
                                                                                0.00) DC
     8TH HIGHEST VALUE IS
                              29.36153 AT ( 631856.01, 4175635.21,
                                                                  49.81,
                                                                         49.81.
                                                                                0.00) DC
     9TH HIGHEST VALUE IS
                              28.09862 AT ( 631857.37, 4175556.75,
                                                                  50.44,
                                                                        50.44,
                                                                                0.00) DC
                               24.46552 AT ( 631650.63, 4175600.50, 52.59, 52.59,
    10TH HIGHEST VALUE IS
                                                                                0.00) DC
STCK4 1ST HIGHEST VALUE IS
                                  79.75872 AT ( 631850.63, 4175500.50, 50.97, 50.97, 0.00) DC
     2ND HIGHEST VALUE IS
                               76.99016 AT ( 631858.38, 4175497.90, 50.86, 50.86,
                                                                                0.00) DC
                                                                                0.00) DC
     3RD HIGHEST VALUE IS
                               60.40465 AT ( 631858.72, 4175478.29,
                                                                 50.99,
                                                                        50.99,
                              58.72859 AT ( 631750.63, 4175500.50,
                                                                 52.17,
                                                                        52.17.
                                                                                0.00) DC
     4TH HIGHEST VALUE IS
                                                                                0.00) DC
                              52.56565 AT ( 631858.04, 4175517.52,
                                                                  50.72, 50.72,
     5TH HIGHEST VALUE IS
                                                                                0.00) DC
     6TH HIGHEST VALUE IS
                              35.19956 AT ( 631859.06, 4175458.67,
                                                                  51.14, 51.14,
                              33.60699 AT ( 631950.63, 4175500.50,
                                                                                0.00) DC
     7TH HIGHEST VALUE IS
                                                                 49.75, 49.75,
                              26.56706 AT ( 631670.70, 4175493.59,
     8TH HIGHEST VALUE IS
                                                                 53.18,
                                                                        53.18,
                                                                                0.00) DC
     9TH HIGHEST VALUE IS
                              24.80657 AT ( 631857.70, 4175537.13,
                                                                  50.58,
                                                                         50.58,
                                                                                0.00) DC
    10TH HIGHEST VALUE IS
                               23.81505 AT ( 631650.63, 4175500.50, 53.39, 53.39, 0.00) DC
                                  60.54152 AT ( 631860.41, 4175380.21, 51.86, 51.86, 0.00) DC
STCK5
        1ST HIGHEST VALUE IS
```

```
2ND HIGHEST VALUE IS
                               59.08628 AT ( 631850.63, 4175400.50, 51.79, 51.79,
                                                                                 0.00) DC
                                                                                 0.00) DC
     3RD HIGHEST VALUE IS
                               56.67964 AT ( 631860.07, 4175399.83,
                                                                  51.66,
                                                                          51.66,
     4TH HIGHEST VALUE IS
                               44.28402 AT ( 631860.75, 4175360.60,
                                                                  52.05,
                                                                          52.05.
                                                                                 0.00) DC
                                                                                 0.00) DC
     5TH HIGHEST VALUE IS
                               37.65720 AT ( 631750.63, 4175400.50,
                                                                  52.98,
                                                                          52.98,
                               32.67657 AT ( 631861.09, 4175340.98,
                                                                                 0.00) DC
     6TH HIGHEST VALUE IS
                                                                  52.27.
                                                                          52.27.
                               28.78661 AT ( 631859.73, 4175419.44,
                                                                  51.47,
                                                                                 0.00) DC
     7TH HIGHEST VALUE IS
                                                                          51.47,
     8TH HIGHEST VALUE IS
                               27.91788 AT ( 631950.63, 4175400.50,
                                                                  50.69,
                                                                                 0.00) DC
                                                                          50.69,
     9TH HIGHEST VALUE IS
                                                                                 0.00) DC
                               26.29808 AT ( 631861.43, 4175321.37,
                                                                  52.50.
                                                                         52.50,
                               21.37222 AT ( 631861.77, 4175301.75, 52.73, 52.73,
    10TH HIGHEST VALUE IS
                                                                                 0.00) DC
  *** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-
977GSBU)\Documents\HRA\Tracy C ***
                                      12/13/23
                                                                         ***
*** AERMET - VERSION 18081 *** ***
                                                                                 15:02:10
                                                             PAGE 262
*** MODELOPTs: CONC ELEV RURAL ADJ_U*
                    *** THE SUMMARY OF MAXIMUM PERIOD ( 43848 HRS) RESULTS ***
                  ** CONC OF OTHER IN MICROGRAMS/M**3
                                                        NETWORK
                     AVERAGE CONC
                                             RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG) OF TYPE
GROUP ID
GRID-ID
                                  94.68929 AT ( 631550.63, 4175800.50, 51.70, 51.70, 0.00) DC
STCK6 1ST HIGHEST VALUE IS
     2ND HIGHEST VALUE IS
                               79.10248 AT ( 631650.63, 4175800.50, 50.62, 50.62, 0.00) DC
                                                                                 0.00) DC
     3RD HIGHEST VALUE IS
                               69.46337 AT ( 631665.32, 4175796.39, 50.51, 50.51,
                               43.76504 AT ( 631450.63, 4175800.50,
                                                                  52.83, 52.83,
                                                                                 0.00) DC
     4TH HIGHEST VALUE IS
                               38.40535 AT ( 631750.63, 4175800.50,
                                                                  49.49, 49.49,
                                                                                 0.00) DC
     5TH HIGHEST VALUE IS
                               22.03752 AT ( 631850.63, 4175800.50,
                                                                                 0.00) DC
     6TH HIGHEST VALUE IS
                                                                  48.39, 48.39,
                               21.57041 AT ( 631852.97, 4175811.74,
                                                                  48.28,
                                                                         48.28,
                                                                                 0.00) DC
     7TH HIGHEST VALUE IS
                               21.49535 AT ( 631853.30, 4175792.13,
     8TH HIGHEST VALUE IS
                                                                  48.42.
                                                                                 0.00) DC
                                                                         48.42,
     9TH HIGHEST VALUE IS
                               19.80824 AT ( 631852.63, 4175831.36,
                                                                  48.13,
                                                                         48.13,
                                                                                 0.00) DC
                               19.67207 AT ( 631853.64, 4175772.51, 48.59, 48.59,
                                                                                 0.00) DC
    10TH HIGHEST VALUE IS
                                  146.82767 AT ( 631550.63, 4175700.50, 52.78, 52.78, 0.00) DC
STCK7
        1ST HIGHEST VALUE IS
                                                                                 0.00) DC
     2ND HIGHEST VALUE IS
                               85.79629 AT ( 631650.63, 4175700.50,
                                                                  51.65, 51.65,
                                                                  53.94,
                                                                         53.94,
                                                                                 0.00) DC
     3RD HIGHEST VALUE IS
                               65.13999 AT ( 631450.63, 4175700.50,
                                                                  50.55,
                                                                         50.55,
                                                                                 0.00) DC
     4TH HIGHEST VALUE IS
                               40.42683 AT ( 631750.63, 4175700.50,
     5TH HIGHEST VALUE IS
                               27.49061 AT ( 631417.17, 4175673.66,
                                                                  54.62, 54.62,
                                                                                 0.00) DC
     6TH HIGHEST VALUE IS
                               26.50689 AT ( 631669.80, 4175641.41,
                                                                   51.98,
                                                                         51.98,
                                                                                 0.00) DC
                                                                                 0.00) DC
     7TH HIGHEST VALUE IS
                               22.78747 AT ( 631850.63, 4175700.50,
                                                                  49.34,
                                                                         49.34,
                               22.43100 AT ( 631855.00, 4175694.05,
                                                                  49.31.
                                                                         49.31.
                                                                                 0.00) DC
     8TH HIGHEST VALUE IS
                               21.75658 AT ( 631855.33, 4175674.44,
                                                                  49.49,
                                                                         49.49,
                                                                                 0.00) DC
     9TH HIGHEST VALUE IS
                               21.42462 AT ( 631854.66, 4175713.67, 49.14, 49.14,
    10TH HIGHEST VALUE IS
                                                                                 0.00) DC
STCK8
        1ST HIGHEST VALUE IS
                                  139.78118 AT ( 631550.63, 4175600.44, 53.80, 53.80, 0.00) DC
                               139.65945 AT ( 631550.63, 4175600.50, 53.80, 53.80, 0.00) DC
     2ND HIGHEST VALUE IS
     3RD HIGHEST VALUE IS
                               82.13879 AT ( 631650.63, 4175600.50,
                                                                   52.59,
                                                                          52.59,
                                                                                 0.00) DC
     4TH HIGHEST VALUE IS
                               66.62763 AT ( 631450.63, 4175600.50,
                                                                   54.98,
                                                                          54.98,
                                                                                 0.00) DC
     5TH HIGHEST VALUE IS
                               39.22214 AT ( 631750.63, 4175600.50,
                                                                   51.42,
                                                                         51.42,
                                                                                 0.00) DC
     6TH HIGHEST VALUE IS
                               22.17321 AT ( 631850.63, 4175600.50,
                                                                   50.21,
                                                                          50.21,
                                                                                 0.00) DC
                               22.16514 AT ( 631857.03, 4175576.36,
                                                                                 0.00) DC
     7TH HIGHEST VALUE IS
                                                                   50.29,
                                                                          50.29,
     8TH HIGHEST VALUE IS
                               21.83186 AT ( 631856.69, 4175595.98,
                                                                   50.14,
                                                                          50.14,
                                                                                 0.00) DC
     9TH HIGHEST VALUE IS
                               20.88595 AT ( 631857.37, 4175556.75,
                                                                  50.44,
                                                                          50.44,
                                                                                 0.00) DC
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*** THE SUMMARY OF HIGHEST 1-HR RESULTS ***

** CONC OF OTHER IN MICROGRAMS/M**3

DATE NETWORK

ZFLAG) OF TYPE GRID-ID

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- SLINE2 HIGH 1ST HIGH VALUE IS 692.42827 ON 05121217: AT ( 631423.49, 4175984.95, 51.35, 0.00) DC
- SLINE5 HIGH 1ST HIGH VALUE IS 599.63378 ON 08011019: AT ( 631753.00, 4175987.52, 47.78, 47.78, 0.00) DC
- STCK1 HIGH 1ST HIGH VALUE IS 1201.49564 ON 06111908: AT ( 631852.63, 4175831.36, 48.13, 0.00) DC
- STCK10 HIGH 1ST HIGH VALUE IS 1240.09311 ON 05111717: AT ( 631440.87, 4175316.64, 58.62, 58.62, 0.00) DC
- STCK11 HIGH 1ST HIGH VALUE IS 1255.12833 ON 05012118: AT ( 631550.63, 4175700.50, 52.78, 0.00) DC
- STCK12 HIGH 1ST HIGH VALUE IS 1273.08935 ON 04030118: AT ( 631550.63, 4175600.44, 53.80, 53.80, 0.00) DC
- STCK13 HIGH 1ST HIGH VALUE IS 1366.56164 ON 06092418: AT ( 631272.85, 4175703.89, 56.37, 0.00) DC
- STCK14 HIGH 1ST HIGH VALUE IS 1490.94014 ON 05030320: AT ( 631200.63, 4175600.44, 58.73, 58.73, 0.00) DC
- STCK2 HIGH 1ST HIGH VALUE IS 1215.30515 ON 07102907: AT ( 631854.66, 4175713.67, 49.14, 49.14, 0.00) DC
- STCK3 HIGH 1ST HIGH VALUE IS 1138.96363 ON 07102907: AT ( 631856.35, 4175615.59, 49.98, 49.98, 0.00) DC
- STCK4 HIGH 1ST HIGH VALUE IS 1184.65671 ON 04030118: AT ( 631858.38, 4175497.90, 50.86, 50.86, 0.00) DC
- STCK5 HIGH 1ST HIGH VALUE IS 1256.60942 ON 05071701: AT ( 631860.41, 4175380.21, 51.86, 51.86, 0.00) DC
- STCK6 HIGH 1ST HIGH VALUE IS 920.61392 ON 07090902: AT ( 631650.63, 4175800.50, 50.62, 50.62, 0.00) DC
- STCK7 HIGH 1ST HIGH VALUE IS 1137.23663 ON 05071701: AT ( 631550.63, 4175700.50, 52.78, 0.00) DC
- STCK8 HIGH 1ST HIGH VALUE IS 1037.95085 ON 05071702: AT ( 631450.63, 4175600.50, 54.98, 0.00) DC
- STCK9 HIGH 1ST HIGH VALUE IS 914.58432 ON 07090902: AT ( 631650.63, 4175500.50, 53.39, 0.00) DC
- SLINE6 HIGH 1ST HIGH VALUE IS 514.39561 ON 07012317: AT ( 631474.21, 4175414.65, 56.22, 56.22, 0.00) DC

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*** RECEPTOR TYPES: GC = GRIDCART
           GP = GRIDPOLR
           DC = DISCCART
           DP = DISCPOLR
  *** AERMOD - VERSION 19191 ***
                                    *** C:\Users\Smith\Dropbox\My PC (DESKTOP-
977GSBU)\Documents\HRA\Tracy C ***
                                       12/13/23
*** AERMET - VERSION 18081 *** ***
                                                                         ***
                                                                                15:02:10
                                                             PAGE 265
*** MODELOPTs: CONC ELEV RURAL ADJ U*
*** Message Summary : AERMOD Model Execution ***
 ----- Summary of Total Messages ------
A Total of
               0 Fatal Error Message(s)
A Total of
              15 Warning Message(s)
A Total of
              375 Informational Message(s)
A Total of
             43848 Hours Were Processed
A Total of
              375 Calm Hours Identified
A Total of
               0 Missing Hours Identified (0.00 Percent)
  ****** FATAL ERROR MESSAGES ******
       *** NONE ***
  *****
          WARNING MESSAGES ******
SO W320 2061
                   PPARM: Input Parameter May Be Out-of-Range for Parameter
                                                                             VS
SO W320 2062
                   PPARM: Input Parameter May Be Out-of-Range for Parameter
                                                                             VS
                   PPARM: Input Parameter May Be Out-of-Range for Parameter
                                                                             VS
SO W320
          2063
         2064
                   PPARM: Input Parameter May Be Out-of-Range for Parameter
                                                                             VS
SO W320
                   PPARM: Input Parameter May Be Out-of-Range for Parameter
                                                                             VS
SO W320
         2065
                   PPARM: Input Parameter May Be Out-of-Range for Parameter
                                                                             VS
SO W320
         2066
         2067
                   PPARM: Input Parameter May Be Out-of-Range for Parameter
                                                                             VS
SO W320
SO W320
         2068
                   PPARM: Input Parameter May Be Out-of-Range for Parameter
                                                                             VS
SO W320
         2069
                   PPARM: Input Parameter May Be Out-of-Range for Parameter
                                                                             VS
SO W320
         2070
                   PPARM: Input Parameter May Be Out-of-Range for Parameter
                                                                             VS
SO W320 2071
                   PPARM: Input Parameter May Be Out-of-Range for Parameter
                                                                             VS
SO W320 2072
                   PPARM: Input Parameter May Be Out-of-Range for Parameter
                                                                             VS
                   PPARM: Input Parameter May Be Out-of-Range for Parameter
                                                                             VS
SO W320
         2073
         2074
SO W320
                   PPARM: Input Parameter May Be Out-of-Range for Parameter
                                                                             VS
ME W187 3298
                  MEOPEN: ADJ U* Option for Stable Low Winds used in AERMET
  ***********
  *** AERMOD Finishes Successfully ***
  ************
```

 $file: ///C/...977GSBU)/Documents/HRA/Tracy\%20Costco\%20DepotV4\%20-\%20OP/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3. ADO.txt[12/18/2023\ 11:20:47\ AM]/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V20V3/Tracy\%20Costco\%20V20V3/Tracy\%20Cost$ 

```
** Lakes Environmental AERMOD MPI
**************
** AERMOD Input Produced by:
** AERMOD View Ver. 12.0.0
** Lakes Environmental Software Inc.
** Date: 12/18/2023
** File: C:\Users\Smith\Dropbox\My PC (DESKTOP-977GSBU)\Documents\HRA\Tracy Costco DepotV4 -
CONSTR\Tracy Costco V3\Tracy Costco V3.ADI
*************
************
** AERMOD Control Pathway
*************
CO STARTING
 TITLEONE C:\Users\Smith\Dropbox\My PC (DESKTOP-977GSBU)\Documents\HRA\Tracy C
 MODELOPT CONC
 AVERTIME 1 PERIOD
 POLLUTID OTHER
 RUNORNOT RUN
 ERRORFIL "Tracy Costco V3.err"
CO FINISHED
*************
** AERMOD Source Pathway
************
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
 LOCATION VOL1
                    VOLUME
                              631388.920 4175856.380
                                                     52.950
** DESCRSRC Construction Volume Source 1
 LOCATION VOL2
                    VOLUME
                              631688.920 4175856.380
                                                     49.570
** DESCRSRC Construction Volume Source 2
 LOCATION VOL3
                    VOLUME
                              631388.920 4175656.380
                                                     55.140
** DESCRSRC Construction Volume Source 3
                    VOLUME
                              631688.920 4175656.380
                                                     51.640
 LOCATION VOL4
** DESCRSRC Construction Volume Source 4
                              631688.920 4175456.380
                                                     53.240
 LOCATION VOL5
                    VOLUME
** DESCRSRC Construction Volume Source 5
 LOCATION VOL6
                    VOLUME
                              631488.920 4175456.380
                                                     55.670
** DESCRSRC Construction Volume Source 6
                    VOLUME
 LOCATION VOL7
                              631738.920 4175256.380
                                                     54.740
** DESCRSRC Construction Volume Source 7
** Source Parameters **
 SRCPARAM VOL1
                       1.0
                           2.438
                                 46.053
                                         1.400
                       1.0
                            2.438
                                 46.053
 SRCPARAM VOL2
                                         1.400
                            2.438
 SRCPARAM VOL3
                       1.0
                                  46.053
                                         1.400
 SRCPARAM VOL4
                       1.0
                            2.438
                                  46.053
                                         1.400
```

```
SRCPARAM VOL5
                      1.0
                           2.438 46.053
                                        1.400
 SRCPARAM VOL6
                      1.0
                          2.438 46.053
                                        1.400
                           2.438 46.053
 SRCPARAM VOL7
                      1.0
                                        1.400
 SRCGROUP VOL1
                  VOL1
                  VOL<sub>2</sub>
 SRCGROUP VOL2
 SRCGROUP VOL3
                  VOL3
                  VOL4
 SRCGROUP VOL4
                  VOL5
 SRCGROUP VOL5
 SRCGROUP VOL6
                  VOL6
 SRCGROUP VOL7
                  VOL7
SO FINISHED
**************
** AERMOD Receptor Pathway
RE STARTING
 INCLUDED "Tracy Costco V3.rou"
RE FINISHED
** AERMOD Meteorology Pathway
*************
ME STARTING
 SURFFILE AERMET\Tracy 2004-2008.SFC
 PROFFILE AERMET\Tracy 2004-2008.PFL
 SURFDATA 99008 2004 Tracy, CA
 UAIRDATA 66666 2004
 PROFBASE 158.0 METERS
ME FINISHED
**************
** AERMOD Output Pathway
*************
**
OU STARTING
 RECTABLE ALLAVE 1ST
 RECTABLE 1 1ST
** Auto-Generated Plotfiles
 PLOTFILE 1 VOL1 1ST "TRACY COSTCO V3.AD\01H1G001.PLT" 31
 PLOTFILE 1 VOL2 1ST "TRACY COSTCO V3.AD\01H1G002.PLT" 32
 PLOTFILE 1 VOL3 1ST "TRACY COSTCO V3.AD\01H1G003.PLT" 33
 PLOTFILE 1 VOL4 1ST "TRACY COSTCO V3.AD\01H1G004.PLT" 34
 PLOTFILE 1 VOL5 1ST "TRACY COSTCO V3.AD\01H1G005.PLT" 35
 PLOTFILE 1 VOL6 1ST "TRACY COSTCO V3.AD\01H1G006.PLT" 36
 PLOTFILE 1 VOL7 1ST "TRACY COSTCO V3.AD\01H1G007.PLT" 37
 PLOTFILE PERIOD VOL1 "TRACY COSTCO V3.AD\PE00G001.PLT" 38
 PLOTFILE PERIOD VOL2 "TRACY COSTCO V3.AD\PE00G002.PLT" 39
 PLOTFILE PERIOD VOL3 "TRACY COSTCO V3.AD\PE00G003.PLT" 40
 PLOTFILE PERIOD VOL4 "TRACY COSTCO V3.AD\PE00G004.PLT" 41
 PLOTFILE PERIOD VOL5 "TRACY COSTCO V3.AD\PE00G005.PLT" 42
```

PLOTFILE PERIOD VOL6 "TRACY COSTCO V3.AD\PE00G006.PLT" 43 PLOTFILE PERIOD VOL7 "TRACY COSTCO V3.AD\PE00G007.PLT" 44 SUMMFILE "Tracy Costco V3.sum"

OU FINISHED

```
*** Message Summary For AERMOD Model Setup ***
----- Summary of Total Messages ------
A Total of
              0 Fatal Error Message(s)
A Total of
              1 Warning Message(s)
              0 Informational Message(s)
A Total of
  ****** FATAL ERROR MESSAGES ******
       *** NONE ***
 *****
           WARNING MESSAGES *******
ME W187
                 MEOPEN: ADJ U* Option for Stable Low Winds used in AERMET
***********
*** SETUP Finishes Successfully ***
  *** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-
977GSBU)\Documents\HRA\Tracy C ***
                                      12/18/23
*** AERMET - VERSION 18081 *** ***
                                                                               11:24:12
                                                            PAGE 1
*** MODELOPTs: CONC ELEV RURAL ADJ U*
                           MODEL SETUP OPTIONS SUMMARY
**Model Is Setup For Calculation of Average CONCentration Values.
 -- DEPOSITION LOGIC --
**NO GAS DEPOSITION Data Provided.
**NO PARTICLE DEPOSITION Data Provided.
**Model Uses NO DRY DEPLETION. DRYDPLT = F
**Model Uses NO WET DEPLETION. WETDPLT = F
**Model Uses RURAL Dispersion Only.
**Model Allows User-Specified Options:
    1. Stack-tip Downwash.
    2. Model Accounts for ELEVated Terrain Effects.
    3. Use Calms Processing Routine.
    4. Use Missing Data Processing Routine.
    5. No Exponential Decay.
**Other Options Specified:
    ADJ U* - Use ADJ U* option for SBL in AERMET
```

CCVR Sub - Meteorological data includes CCVR substitutions

```
**Model Assumes No FLAGPOLE Receptor Heights.
**The User Specified a Pollutant Type of: OTHER
**Model Calculates 1 Short Term Average(s) of: 1-HR
  and Calculates PERIOD Averages
**This Run Includes:
                      7 Source(s);
                                    7 Source Group(s); and 426 Receptor(s)
        with:
                0 POINT(s), including
              0 POINTCAP(s) and
                                    0 POINTHOR(s)
                7 VOLUME source(s)
         and:
                0 AREA type source(s)
         and:
         and:
                0 LINE source(s)
                0 RLINE/RLINEXT source(s)
         and:
                0 OPENPIT source(s)
         and:
         and:
                0 BUOYANT LINE source(s) with
                                                  0 line(s)
**Model Set To Continue RUNning After the Setup Testing.
**The AERMET Input Meteorological Data Version Date: 18081
**Output Options Selected:
     Model Outputs Tables of PERIOD Averages by Receptor
     Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE Keyword)
     Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)
     Model Outputs Separate Summary File of High Ranked Values (SUMMFILE Keyword)
**NOTE: The Following Flags May Appear Following CONC Values: c for Calm Hours
                                   m for Missing Hours
                                   b for Both Calm and Missing Hours
**Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) = 158.00; Decay Coef. = 0.000; Rot. Angle =
                                                                                                       0.0
         Emission Units = GRAMS/SEC
                                                       ; Emission Rate Unit Factor = 0.10000E+07
         Output Units = MICROGRAMS/M**3
**Approximate Storage Requirements of Model =
                                               3.7 MB of RAM.
**Input Runstream File:
                           aermod.inp
**Output Print File:
                         aermod.out
**Detailed Error/Message File: Tracy Costco V3.err
**File for Summary of Results: Tracy Costco V3.sum
  *** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-
977GSBU)\Documents\HRA\Tracy C ***
                                         12/18/23
                                                                              ***
*** AERMET - VERSION 18081 *** ***
                                                                                     11:24:12
                                                                 PAGE 2
*** MODELOPTs: CONC ELEV RURAL ADJ U*
                           *** VOLUME SOURCE DATA ***
```

```
NUMBER EMISSION RATE
                                          BASE RELEASE INIT. INIT. URBAN EMISSION RATE
            PART. (GRAMS/SEC) X Y
                                            ELEV. HEIGHT
                                                                          SOURCE SCALAR VARY
 SOURCE
                                                               SY
                                                                     SZ
                      (METERS) (METERS) (METERS) (METERS) (METERS)
  ID
         CATS.
                                                                                        BY
VOL1
            0 0.10000E+01 631388.9 4175856.4
                                             52.9
                                                   2.44
                                                         46.05
                                                                      NO
                                                                1.40
VOL2
            0 0.10000E+01 631688.9 4175856.4 49.6
                                                   2.44
                                                         46.05
                                                                1.40
                                                                      NO
            0 0.10000E+01 631388.9 4175656.4
VOL3
                                             55.1
                                                   2.44
                                                         46.05
                                                                      NO
                                                                1.40
VOL4
            0 0.10000E+01 631688.9 4175656.4
                                             51.6
                                                   2.44
                                                         46.05
                                                                1.40
                                                                      NO
VOL5
            0 0.10000E+01 631688.9 4175456.4
                                             53.2
                                                   2.44
                                                        46.05
                                                                1.40
                                                                      NO
VOL6
            0 0.10000E+01 631488.9 4175456.4
                                             55.7
                                                   2.44
                                                         46.05
                                                                1.40
                                                                      NO
VOL7
            0 0.10000E+01 631738.9 4175256.4 54.7
                                                   2.44 46.05
                                                                1.40
                                                                      NO
 *** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-
977GSBU)\Documents\HRA\Tracy C ***
                                      12/18/23
*** AERMET - VERSION 18081 *** ***
                                                                                11:24:12
                                                            PAGE 3
*** MODELOPTs: CONC ELEV RURAL ADJ_U*
                     *** SOURCE IDs DEFINING SOURCE GROUPS ***
                                     SOURCE IDs
SRCGROUP ID
_____
VOL1
         VOL1
VOL<sub>2</sub>
         VOL2
VOL3
         VOL3
VOL4
         VOL4
VOL5
         VOL5
VOL6
         VOL6
VOL7
         VOL7
 *** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-
977GSBU)\Documents\HRA\Tracy C ***
                                      12/18/23
*** AERMET - VERSION 18081 *** ***
                                                                                11:24:12
                                                            PAGE 4
*** MODELOPTs: CONC ELEV RURAL ADJ U*
                      *** DISCRETE CARTESIAN RECEPTORS ***
                     (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                              (METERS)
  (632121.2, 4174952.4,
                        58.1,
                               58.1,
                                       0.0);
                                               (632304.4, 4174354.5,
                                                                     71.1,
                                                                             71.1,
                                                                                    0.0);
  (632192.2, 4174956.3,
                        56.8,
                               56.8,
                                       0.0);
                                               (632420.6, 4175510.1,
                                                                     46.0,
                                                                             46.0,
                                                                                    0.0);
  (632419.0, 4175552.9,
                        45.6,
                               45.6,
                                       0.0);
                                               (631187.0, 4175727.0,
                                                                     56.4,
                                                                             56.4,
                                                                                    0.0);
  (631166.0, 4175729.0,
                        56.1,
                               56.1,
                                       0.0);
                                               (631121.0, 4175719.0,
                                                                     56.0,
                                                                             56.0,
                                                                                    0.0);
  (631035.0, 4174830.0,
                        71.6,
                               71.6,
                                       (0.0);
                                               (631106.0, 4174825.0,
                                                                     71.3.
                                                                             71.3.
                                                                                    (0.0);
  (631937.0, 4174528.0,
                        67.1,
                               67.1,
                                       0.0);
                                               (631322.0, 4174522.0,
                                                                     87.6,
                                                                             87.6,
                                                                                    0.0);
  (629800.6, 4173850.4,
                        117.9,
                               261.9,
                                        0.0);
                                                (630150.6, 4173850.4,
                                                                      118.9,
                                                                              261.9,
                                                                                      0.0);
```

```
(630500.6, 4173850.4,
                             111.9,
                                      261.9,
                                                0.0);
                                                           (630850.6, 4173850.4,
                                                                                     95.0,
                                                                                             304.8,
                                                                                                        0.0);
                             104.5,
                                      104.5,
                                                                                     89.4,
                                                                                              180.1,
   (631200.6, 4173850.4,
                                                0.0);
                                                           (631550.6, 4173850.4,
                                                                                                        0.0);
                             96.9,
                                      105.0,
                                                                                     85.5,
                                                                                                       0.0);
   (631900.6, 4173850.4,
                                                0.0);
                                                          (632250.6, 4173850.4,
                                                                                             85.5,
                             77.2,
                                      77.2,
                                                                                             69.6,
   (632600.6, 4173850.4,
                                               0.0);
                                                         (632950.6, 4173850.4,
                                                                                    69.6,
                                                                                                      (0.0);
                                      62.8,
                                                                                             261.9,
   (633300.6, 4173850.4,
                             62.8,
                                               0.0);
                                                         (629800.6, 4174200.4,
                                                                                    106.6,
                                                                                                       0.0);
                             100.2,
                                      261.9,
                                                0.0);
                                                                                             261.9,
                                                                                                        0.0);
   (630150.6, 4174200.4,
                                                           (630500.6, 4174200.4,
                                                                                     88.8,
                             90.2,
                                      90.2,
                                               0.0);
                                                                                    93.5,
                                                                                             99.0,
                                                                                                      0.0);
   (630850.6, 4174200.4,
                                                         (631200.6, 4174200.4,
                                      80.9,
                                               0.0);
   (631550.6, 4174200.4,
                             80.9,
                                                         (631900.6, 4174200.4,
                                                                                    75.8,
                                                                                             75.8,
                                                                                                      0.0);
                                      75.2,
                                                                                             70.8,
                                                                                                      0.0);
   (632250.6, 4174200.4,
                             75.2,
                                               0.0);
                                                         (632600.6, 4174200.4,
                                                                                    70.8,
                             65.2,
                                      65.2,
                                               0.0);
                                                                                    59.6,
                                                                                             59.6,
   (632950.6, 4174200.4,
                                                         (633300.6, 4174200.4,
                                                                                                      0.0);
   (629800.6, 4174550.4,
                             86.6,
                                     247.1,
                                                0.0);
                                                          (630150.6, 4174550.4,
                                                                                     85.5,
                                                                                             85.5,
                                                                                                       0.0);
                                                                                                      0.0);
                             78.0,
                                      85.7,
                                               0.0);
                                                         (630850.6, 4174550.4,
                                                                                    78.2,
                                                                                             78.2,
   (630500.6, 4174550.4,
   (631200.6, 4174550.4,
                             76.2,
                                      91.7,
                                               0.0);
                                                         (631550.6, 4174550.4,
                                                                                    77.9,
                                                                                             78.4,
                                                                                                      0.0);
   (631900.6, 4174550.4,
                             66.3,
                                      66.3,
                                               0.0);
                                                         (632250.6, 4174550.4,
                                                                                    66.5,
                                                                                             66.5,
                                                                                                      0.0);
   (632600.6, 4174550.4,
                             64.5,
                                      64.5,
                                               0.0);
                                                         (632950.6, 4174550.4,
                                                                                    59.5,
                                                                                             59.5,
                                                                                                      0.0);
   (633300.6, 4174550.4,
                             54.6,
                                      54.6,
                                               0.0);
                                                         (629800.6, 4174900.4,
                                                                                    85.9,
                                                                                             85.9,
                                                                                                      0.0);
                                                                                             73.5,
   (630150.6, 4174900.4,
                             84.0,
                                      88.1,
                                               0.0);
                                                         (630500.6, 4174900.4,
                                                                                    73.5,
                                                                                                      0.0);
                                                                                             69.0,
   (630850.6, 4174900.4,
                             70.7,
                                      70.7,
                                               0.0);
                                                         (631200.6, 4174900.4,
                                                                                    69.0,
                                                                                                      0.0);
                                      64.3,
                                               0.0);
                                                                                             59.6,
   (631550.6, 4174900.4,
                             64.3,
                                                         (631900.6, 4174900.4,
                                                                                    59.6,
                                                                                                      0.0);
   (632250.6, 4174900.4,
                             58.2,
                                      58.2,
                                               0.0);
                                                         (632600.6, 4174900.4,
                                                                                    57.3,
                                                                                             57.3,
                                                                                                      0.0);
   (632950.6, 4174900.4,
                             54.1,
                                      54.1,
                                               0.0);
                                                         (633300.6, 4174900.4,
                                                                                    50.1,
                                                                                             50.1,
                                                                                                      0.0);
                                      82.6,
                                                                                             74.2,
   (629800.6, 4175250.4,
                             82.6,
                                               0.0);
                                                         (630150.6, 4175250.4,
                                                                                    74.2,
                                                                                                      0.0);
   (630500.6, 4175250.4,
                             67.4,
                                      67.4,
                                               0.0);
                                                         (630850.6, 4175250.4,
                                                                                    66.4,
                                                                                             66.4,
                                                                                                      0.0);
   (631200.6, 4175250.4,
                             61.6,
                                      61.6,
                                               0.0);
                                                         (631550.6, 4175250.4,
                                                                                    58.8,
                                                                                             58.8,
                                                                                                      0.0);
   (631900.6, 4175250.4,
                             53.5,
                                      53.5,
                                               0.0);
                                                         (632250.6, 4175250.4,
                                                                                    51.4,
                                                                                             51.4,
                                                                                                      0.0);
   (632600.6, 4175250.4,
                             49.6,
                                      49.6,
                                               0.0);
                                                         (632950.6, 4175250.4,
                                                                                    47.6,
                                                                                             47.6,
                                                                                                      0.0);
   (633300.6, 4175250.4,
                             44.6,
                                      44.6,
                                               0.0);
                                                         (629800.6, 4175600.4,
                                                                                    71.0,
                                                                                             71.0,
                                                                                                      0.0);
                                      68.8,
                                               0.0);
                                                                                    66.7,
                                                                                             66.7,
                                                                                                      0.0);
   (630150.6, 4175600.4,
                             68.8,
                                                         (630500.6, 4175600.4,
   (630850.6, 4175600.4,
                             64.6,
                                      64.6,
                                               0.0);
                                                         (631200.6, 4175600.4,
                                                                                    58.7,
                                                                                             58.7,
                                                                                                      0.0);
                                                                                             49.5.
   (631550.6, 4175600.4,
                             53.8,
                                      53.8,
                                               0.0);
                                                                                    49.5,
                                                                                                      0.0);
                                                         (631900.6, 4175600.4,
                                      46.2,
   (632250.6, 4175600.4,
                             46.2,
                                               0.0);
                                                         (632600.6, 4175600.4,
                                                                                    43.4,
                                                                                             43.4,
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                                               (0.0);
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  *** AERMOD - VERSION 19191 ***
977GSBU)\Documents\HRA\Tracy C ***
                                              12/18/23
*** AERMET - VERSION 18081 *** ***
                                                                                                 11:24:12
                                                                         PAGE 5
*** MODELOPTs: CONC ELEV RURAL ADJ U*
                           *** DISCRETE CARTESIAN RECEPTORS ***
                          (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
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  *** AERMOD - VERSION 19191 ***
977GSBU)\Documents\HRA\Tracy C ***
                                              12/18/23
*** AERMET - VERSION 18081 *** ***
                                                                                                 11:24:12
                                                                         PAGE 6
*** MODELOPTs: CONC ELEV RURAL ADJ U*
                           *** DISCRETE CARTESIAN RECEPTORS ***
                          (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                    (METERS)
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977GSBU)\Documents\HRA\Tracy C ***
                                              12/18/23
*** AERMET - VERSION 18081 *** ***
                                                                                                 11:24:12
                                                                         PAGE 7
*** MODELOPTs: CONC ELEV RURAL ADJ U*
                           *** DISCRETE CARTESIAN RECEPTORS ***
                          (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
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977GSBU)\Documents\HRA\Tracy C ***
                                              12/18/23
*** AERMET - VERSION 18081 *** ***
                                                                                                 11:24:12
                                                                         PAGE 8
*** MODELOPTs: CONC ELEV RURAL ADJ U*
                           *** DISCRETE CARTESIAN RECEPTORS ***
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  *** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-
977GSBU)\Documents\HRA\Tracy C ***
                                               12/18/23
*** AERMET - VERSION 18081 *** ***
                                                                                                 11:24:12
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*** MODELOPTs: CONC ELEV RURAL ADJ U*

* SOURCE-RECEPTOR COMBINATIONS FOR WHICH CALCULATIONS MAY NOT BE PERFORMED *

LESS THAN 1.0 METER; WITHIN OPENPIT; OR BEYOND 80KM FOR FASTAREA/FASTALL

SOURCE ID	RECEP' XR (METERS)	TOR LOCAT YR (METE		Е
VOL1	631417.2	4175826.8	-58.15	
VOL1	631350.6	4175800.5	-31.27	
VOL1	631350.6	4175900.5	-40.60	
VOL1	631450.6	4175800.5	-15.76	
VOL1	631450.6	4175900.5	-23.15	
VOL2	631665.3	4175796.4	-34.55	
VOL2	631650.6	4175800.5	-31.27	
VOL2	631650.6	4175900.5	-40.60	
VOL2	631750.6	4175800.5	-15.76	
VOL2	631750.6	4175900.5	-23.15	
VOL3	631417.2	4175673.7	-65.90	
VOL3	631350.6	4175600.5	-31.27	
VOL3	631350.6	4175700.5	-40.60	
VOL3	631450.6	4175600.5	-15.76	

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VOL4
                              631669.8
                                         4175641.4
                                                         -74.73
                VOL4
                              631650.6
                                         4175600.5
                                                         -31.27
                VOL4
                              631650.6
                                         4175700.5
                                                         -40.60
                VOL4
                              631750.6
                                         4175600.5
                                                         -15.76
                VOL4
                              631750.6
                                         4175700.5
                                                         -23.15
                VOL5
                              631670.7
                                         4175493.6
                                                         -57.58
                VOL5
                              631650.6
                                         4175400.5
                                                         -31.27
                VOL5
                              631650.6
                                         4175500.5
                                                         -40.60
                VOL5
                              631750.6
                                         4175400.5
                                                         -15.76
                                                         -23.15
                VOL5
                              631750.6
                                         4175500.5
                VOL6
                              631422.6
                                         4175484.6
                                                         -26.88
                VOL6
                              631491.9
                                         4175442.2
                                                         -84.53
                VOL6
                              631491.9
                                         4175414.9
                                                         -57.47
                VOL6
                                                         -11.40
                              631402.6
                                         4175441.4
                VOL6
                              631420.5
                                         4175441.6
                                                         -28.98
                                                         -46.35
                VOL6
                              631438.3
                                         4175441.8
                VOL6
                              631456.2
                                         4175441.9
                                                         -63.23
                VOL6
                              631474.1
                                         4175442.1
                                                         -78.38
                VOL6
                              631491.9
                                         4175428.6
                                                         -71.05
                                                         -54.77
                VOL6
                              631474.2
                                         4175414.6
                VOL6
                                                         -45.93
                              631456.5
                                         4175414.3
                                                         -33.39
                VOL<sub>6</sub>
                              631438.8
                                         4175414.0
                VOL6
                              631421.1
                                         4175413.7
                                                         -18.87
                                                         -3.27
                VOL<sub>6</sub>
                              631403.4
                                         4175413.4
                VOL<sub>6</sub>
                                                         -31.27
                              631450.6
                                         4175400.5
  *** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-
977GSBU)\Documents\HRA\Tracy C ***
                                          12/18/23
*** AERMET - VERSION 18081 *** ***
                                                                                       11:24:12
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-23.15

*** MODELOPTs: CONC ELEV RURAL ADJ U*

*** MODELOPTs: CONC ELEV RURAL ADJ U*

VOL3

631450.6

4175700.5

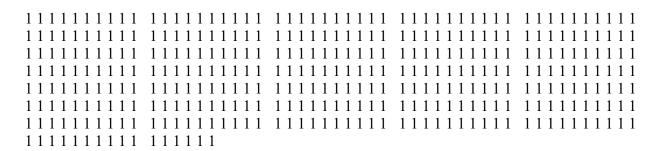
* SOURCE-RECEPTOR COMBINATIONS FOR WHICH CALCULATIONS MAY NOT BE PERFORMED *

LESS THAN 1.0 METER; WITHIN OPENPIT; OR BEYOND 80KM FOR FASTAREA/FASTALL

PAGE 10

SOURCE ID 2		TOR LOCATI YR (METER		ANCE S)		
VOL6	631450.6	4175500.5	-40.60			
VOL6	631550.6	4175400.5	-15.76			
VOL6	631550.6	4175500.5	-23.15			
VOL7	631650.6	4175300.5	-0.31			
VOL7	631750.6	4175200.5	-41.92			
VOL7	631750.6	4175300.5	-53.37			
*** AERMOD - VERSION	19191 *** *	** C:\Users\S1	mith\Dropbox\My	PC (DESI	KTOP-	
977GSBU)\Documents\HRA\T		12/18/23	1 ,			
*** AERMET - VERSION 13					***	11:24:12
			PAG	GE 11		

*** METEOROLOGICAL DAYS SELECTED FOR PROCESSING *** (1=YES; 0=NO)



NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.

# *** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES *** (METERS/SEC)

1.54, 3.09, 5.14, 8.23, 10.80,

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*** MODELOPTs: CONC ELEV RURAL ADJ_U*

## *** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

Surface file: AERMET\Tracy 2004-2008.SFC Met Version: 18081

Profile file: AERMET\Tracy 2004-2008.PFL

Surface format: FREE Profile format: FREE

Surface station no.: 99008 Upper air station no.: 66666

Name: TRACY,CA Name: UNKNOWN

Year: 2004 Year: 2004

First 24 hours of scalar data

YR MO DY JDY HR H0 U* W* DT/DZ ZICNV ZIMCH M-O LEN Z0 BOWEN ALBEDO REF WS WD HT REF TA HT

```
______
04 01 01 1 01 -30.2 0.306 -9.000 -9.000 -999. 406. 102.9 0.09 0.77 1.00 4.10 151. 14.0 282.0
04 01 01 1 02 -35.7 0.362 -9.000 -9.000 -999. 523. 144.2 0.11 0.77 1.00 4.60 148. 14.0 282.0 2.0
04 01 01 1 03 -44.6 0.453 -9.000 -9.000 -9.99. 731. 225.4 0.11 0.77 1.00 5.70 144. 14.0 281.8 2.0
04 01 01 1 04 -48.8 0.494 -9.000 -9.000 -9.000 -999. 833. 268.6 0.11 0.77 1.00 6.20 143. 14.0 281.6 2.0
04 01 01 1 05 -52.8 0.536 -9.000 -9.000 -9.99. 940. 315.8 0.11 0.77 1.00 6.70 143. 14.0 281.5 2.0
04 01 01 1 06 -57.0 0.578 -9.000 -9.000 -999. 1052. 367.0 0.11 0.77 1.00 7.20 142. 14.0 281.4 2.0
04 01 01 1 07 -61.2 0.619 -9.000 -9.000 -999. 1168. 422.1 0.11 0.77 1.00 7.70 135. 14.0 281.2 2.0
04 01 01 1 08 -64.0 0.658 -9.000 -9.000 -999. 1279. 476.0 0.11 0.77 0.73 8.20 143. 14.0 281.2 2.0
04 01 01 1 09 7.0 0.717 0.238 0.005 68. 1454. -4692.4 0.11 0.77 0.39 8.70 137. 14.0 281.5 2.0
04 01 01 1 10 43.3 0.655 0.675 0.005 251. 1280. -574.5 0.09 0.77 0.27 8.20 151. 14.0 282.1 2.0
04\ 01\ 01\ 1\ 11\ 70.4\ 0.549\ 0.930\ 0.005\ 405.\ 989.\ -207.5\ 0.09\ 0.77\ 0.23\ 6.70\ 164.\ 14.0\ 283.1\ 2.0
04 01 01 1 12 90.7 0.480 1.217 0.005 703. 804. -107.8 0.09 0.77 0.21 5.70 166. 14.0 284.1 2.0
04\ 01\ 01\ 1\ 13\ 92.9\ 0.395\ 1.327\ 0.005\ 891.\ 602.\ \ -58.8\ 0.08\ 0.77\ 0.21\ \ 4.60\ 183.\ 14.0\ 284.9\ \ 2.0
04 01 01 1 14 81.1 0.321 1.332 0.005 1031. 440. -36.0 0.08 0.77 0.22 3.60 189. 14.0 285.2 2.0
04 01 01 1 15 47.5 0.160 1.139 0.005 1104. 174. -7.6 0.08 0.77 0.26 1.50 192. 14.0 284.5 2.0
04 01 01 1 16 19.1 0.076 0.847 0.005 1130. 56. -2.0 0.12 0.77 0.34 0.50 54. 14.0 283.5 2.0
04 01 01 1 17 -5.0 0.110 -9.000 -9.000 -999. 88. 23.5 0.10 0.77 0.59 1.50 341. 14.0 283.1 2.0
```

```
04 01 01 1 18 -5.6 0.111 -9.000 -9.000 -999. 89.
                                                 21.5 0.11 0.77 1.00 1.50 307. 14.0 282.2
                                                                                              2.0
04 01 01 1 19 -17.3 0.197 -9.000 -9.000 -999. 209.
                                                  42.5 0.10 0.77 1.00 2.60 284. 14.0 281.2
                                                                                               2.0
04 01 01 1 20 -27.2 0.273 -9.000 -9.000 -999. 342.
                                                  81.8 0.10 0.77 1.00 3.60 267. 14.0 280.4
                                                                                               2.0
04 01 01 1 21 -31.2 0.312 -9.000 -9.000 -999. 419.
                                                 107.3 0.10 0.77 1.00 4.10 260. 14.0 279.8
                                                                                               2.0
04 01 01 1 22 -35.2 0.352 -9.000 -9.000 -999. 501.
                                                 136.4 0.10 0.77 1.00 4.60 262. 14.0 279.4
                                                                                               2.0
04 01 01 1 23 -35.3 0.352 -9.000 -9.000 -999. 501.
                                                 136.4 0.10 0.77 1.00 4.60 250. 14.0 279.2
                                                                                               2.0
04 01 01 1 24 -31.3 0.312 -9.000 -9.000 -999. 420.
                                                 107.3 0.10 0.77 1.00 4.10 240. 14.0 279.0
                                                                                               2.0
```

First hour of profile data

YR MO DY HR HEIGHT F WDIR WSPD AMB_TMP sigmaA sigmaW sigmaV 04 01 01 01 14.0 1 151. 4.10 282.1 99.0 -99.00 -99.00

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

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*** AERMET - VERSION 18081 *** ***

*** 11:24:12

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*** MODELOPTs: CONC ELEV RURAL ADJ U*

*** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE

GROUP: VOL1 ***

INCLUDING SOURCE(S): VOL1

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3

X-COORD (M) Y-COORD (M) **CONC** X-COORD (M) Y-COORD (M) **CONC** 632121.21 4174952.36 0.46603 632304.44 4174354.52 0.16110 632192.15 4174956.32 0.47064 632420.62 4175510.15 1.14538 632418.97 4175552.92 1.25105 631187.00 4175727.00 3.68282 631166.00 4175729.00 3.25530 631121.00 4175719.00 2.42338 631035.00 4174830.00 0.16024 631106.00 4174825.00 0.16394 631937.00 4174528.00 0.18304 631322.00 4174522.00 0.07624 0.01970 630150.63 629800.63 4173850.44 4173850.44 0.02154 630500.63 4173850.44 0.02776 630850.63 4173850.44 0.04020 631200.63 4173850.44 0.03186 631550.63 4173850.44 0.05268 631900.63 4173850.44 0.05949 632250.63 4173850.44 0.07559 632600.63 4173850.44 0.09305 632950.63 4173850.44 0.10529 633300.63 629800.63 4173850.44 0.10075 4174200.44 0.02583 630150.63 4174200.44 0.03244 630500.63 4174200.44 0.05076 630850.63 4174200.44 0.05603 631200.63 4174200.44 0.04959 631550.63 4174200.44 0.08174 631900.63 4174200.44 0.10955 632250.63 4174200.44 0.12169 632600.63 4174200.44 0.14463 632950.63 4174200.44 0.14051 633300.63 4174200.44 0.12406 629800.63 4174550.44 0.04445 630150.63 4174550.44 0.05122 630500.63 4174550.44 0.07143 630850.63 4174550.44 0.09354 631200.63 4174550.44 0.09965 631550.63 4174550.44 0.13001 4174550.44 631900.63 0.18882 632250.63 4174550.44 0.22039 632600.63 4174550.44 0.21696 632950.63 4174550.44 0.18585 633300.63 4174550.44 0.17187 629800.63 4174900.44 0.05696 630150.63 4174900.44 0.06773 630500.63 4174900.44 0.10189 630850.63 4174900.44 0.15321 631200.63 4174900.44 0.19438

631550.63	4174900.44	0.29001		631900.63	4174900.44	0.39956	
632250.63	4174900.44	0.40273		632600.63	4174900.44	0.33233	
632950.63	4174900.44	0.28605		633300.63	4174900.44	0.25548	
629800.63	4175250.44	0.07561		630150.63	4175250.44	0.10829	
630500.63	4175250.44	0.16620		630850.63	4175250.44	0.25970	
631200.63	4175250.44	0.49695		631550.63	4175250.44	0.83444	
631900.63	4175250.44	1.01506		632250.63	4175250.44	0.73116	
632600.63	4175250.44	0.58616		632950.63	4175250.44	0.48544	
633300.63	4175250.44	0.40415		629800.63	4175600.44	0.09616	
630150.63	4175600.44	0.14091		630500.63	4175600.44	0.24315	
630850.63	4175600.44	0.51316		631200.63	4175600.44	1.80784	
631550.63	4175600.44	5.61476		631900.63	4175600.44	2.94658	
632250.63	4175600.44	1.70611		632600.63	4175600.44	1.09941	
632950.63	4175600.44	0.76727		633300.63	4175600.44	0.57087	
629800.63	4175950.44	0.10621		630150.63	4175950.44	0.15850	
*** AERMOD	- VERSION	19191 ***	*** C:\User	s\Smith\Drop	obox\My PC (	DESKTOP-	
977GSBU)\Docu			12/18/23				
*** AERMET -	VERSION 18	081 *** **	*			***	11:24:12

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*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE

GROUP: VOL1 ***

INCLUDING SOURCE(S): VOL1

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (N	И) Y-COORD (	(M) CONC	X-C0	OORD (M) Y	-COORD (M)	CONC
630500.63	4175950.44	0.31167	630850.63	4175950.44	0.93847	
	4175950.44	7.52040	631550.63	4175950.44	20.33335	
631900.63	4175950.44	4.67642	632250.63	4175950.44	2.12127	
632600.63	4175950.44	1.24245	632950.63	4175950.44	0.83167	
633300.63	4175950.44	0.59998	629800.63	4176300.44	0.12042	
630150.63	4176300.44	0.20019	630500.63	4176300.44	0.41712	
630850.63	4176300.44	0.99983	631200.63	4176300.44	2.28829	
631550.63	4176300.44	2.14943	631900.63	4176300.44	1.36126	
632250.63	4176300.44	0.93279	632600.63	4176300.44	0.70015	
632950.63	4176300.44	0.54278	633300.63	4176300.44	0.43369	
629800.63	4176650.44	0.14436	630150.63	4176650.44	0.23702	
630500.63	4176650.44	0.40827	630850.63	4176650.44	0.67819	
631200.63	4176650.44	0.89584	631550.63	4176650.44	0.85313	
631900.63	4176650.44	0.68944	632250.63	4176650.44	0.51691	
632600.63	4176650.44	0.39633	632950.63	4176650.44	0.32994	
633300.63	4176650.44	0.28213	629800.63	4177000.44	0.15436	
630150.63	4177000.44	0.22975	630500.63	4177000.44	0.32948	
630850.63	4177000.44	0.42758	631200.63	4177000.44	0.48706	
631550.63	4177000.44	0.47605	631900.63	4177000.44	0.39101	
632250.63	4177000.44	0.34826	632600.63	4177000.44	0.28268	
632950.63	4177000.44	0.23051	633300.63	4177000.44	0.19640	
629800.63	4177350.44	0.15113	630150.63	4177350.44	0.19914	
630500.63	4177350.44	0.24529	630850.63	4177350.44	0.28808	
631200.63	4177350.44	0.30700	631550.63	4177350.44	0.30437	

631900.63	4177350.44	0.26637	632250.63	4177350.44	0.24316
632600.63	4177350.44	0.21212	632950.63	4177350.44	0.18199
633300.63	4177350.44	0.15547	631670.70	4175493.59	2.76577
631669.80	4175641.41	5.90576	631665.32	4175796.39	14.47616
631417.17	4175826.85	0.00000	631417.17	4175673.66	9.94675
631422.55	4175484.63	2.09317	631268.42	4175983.74	13.31357
631275.69	4175523.99	1.59772	631345.65	4175419.50	1.11580
631384.72	4175441.30	1.53731	631491.93	4175442.21	1.92371
631491.93	4175414.95	1.67402	631385.63	4175413.14	1.15901
631358.37	4175395.87	1.03280	631409.25	4175336.81	0.89235
631567.35	4175235.96	0.80922	631756.33	4175028.80	0.51079
631807.22	4175003.36	0.49176	631867.18	4174987.91	0.48980
631849.92	4175988.28	4.71752	631268.74	4175963.75	15.04252
631269.05	4175943.76	16.83448	631269.37	4175923.77	18.54165
631269.68	4175903.78	19.90287	631270.00	4175883.79	20.60690
631270.32	4175863.81	20.36933	631270.63	4175843.82	19.04539
*** A EDMOD	VEDCION	10101 *** ***	C. I I and Conith Duan	han Mr. DC (D	ECLTOD

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*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE

GROUP: VOL1 **

INCLUDING SOURCE(S): VOL1

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3

X-COORD (	M) Y-COORE	O(M) CONC	X-COORD (M) Y-COORD (M)	CONC
 631270.95	4175823.83	16.99904	631271.26 4175803.84 14.57120	
631271.58	4175783.85	12.14587	631271.90 4175763.86 9.96173	
631272.21	4175743.87	8.18469	631272.53 4175723.88 6.82082	
631272.85	4175703.89	5.75165	631273.16 4175683.90 4.90730	
631273.48	4175663.91	4.23205	631273.79 4175643.92 3.68890	
631274.11	4175623.94	3.24555	631274.43 4175603.95 2.86834	
631274.74	4175583.96	2.24260	631275.06 4175563.97 1.95649	
631275.37	4175543.98	1.76085	631285.68 4175509.06 1.53192	
631295.68	4175494.14	1.44591	631305.67 4175479.21 1.37543	
631315.67	4175464.28	1.30736	631325.66 4175449.35 1.23584	
631335.66	4175434.43	1.18416	631358.67 4175426.77 1.17255	
631371.70	4175434.03	1.25572	631402.59 4175441.45 1.59586	
631420.46	4175441.60	1.65771	631438.33 4175441.76 1.72255	
631456.19	4175441.91	1.78955	631474.06 4175442.06 1.85728	
631491.93	4175428.58	1.79230	631474.21 4175414.65 1.61741	
631456.50	4175414.35	1.56067	631438.78 4175414.05 1.50466	
631421.06	4175413.74	1.44900	631403.35 4175413.44 1.24412	
631372.00	4175404.51	1.09428	631371.09 4175381.11 0.99097	
631383.81	4175366.34	0.95723	631396.53 4175351.58 0.92410	
631425.06	4175326.73	0.88298	631440.87 4175316.64 0.88310	
631456.68	4175306.56	0.87146	631472.49 4175296.47 0.86402	
631488.30	4175286.39	0.86262	631504.11 4175276.30 0.85041	
631519.92	4175266.22	0.84027	631535.73 4175256.13 0.83565	

```
631551.54 4175246.05
                              0.82141
                                                 631579.95
                                                           4175222.15
                                                                           0.78589
                                                 631605.15
    631592.55
               4175208.34
                              0.75729
                                                            4175194.53
                                                                           0.73782
    631617.74 4175180.72
                                                 631630.34
                                                            4175166.91
                                                                           0.69359
                              0.71050
    631642.94
                                                 631655.54
                                                            4175139.29
               4175153.10
                              0.66721
                                                                           0.65043
    631668.14
               4175125.47
                                                 631680.74
                                                            4175111.66
                              0.62741
                                                                           0.61091
    631693.34
               4175097.85
                              0.59138
                                                 631705.94
                                                            4175084.04
                                                                           0.57503
    631718.53
               4175070.23
                              0.55797
                                                 631731.13
                                                            4175056.42
                                                                           0.54183
                                                 631773.29
                                                            4175020.32
    631743.73
               4175042.61
                              0.52712
                                                                           0.50586
    631790.26
               4175011.84
                              0.50045
                                                 631822.21
                                                            4174999.50
                                                                           0.49017
    631837.20 4174995.64
                              0.48953
                                                 631852.19
                                                            4174991.77
                                                                           0.48958
    631866.84
               4175007.53
                              0.51070
                                                 631866.50
                                                            4175027.14
                                                                           0.54091
    631866.16 4175046.76
                              0.60867
                                                 631865.83
                                                            4175066.37
                                                                           0.63991
    631865.49 4175085.99
                              0.67298
                                                 631865.15
                                                            4175105.60
                                                                           0.70790
    631864.81
               4175125.22
                              0.74506
                                                 631864.47
                                                            4175144.83
                                                                           0.78455
    631864.13 4175164.45
                              0.82647
                                                 631863.80 4175184.06
                                                                           0.87086
    631863.46 4175203.68
                              0.91782
                                                 631863.12
                                                            4175223.29
                                                                           0.96737
                                                           4175262.52
    631862.78
               4175242.91
                              1.01965
                                                 631862.44
                                                                           1.07507
  *** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-
977GSBU)\Documents\HRA\Tracy C ***
                                        12/18/23
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*** AERMET - VERSION 18081 *** ***

*** 11:24:12

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*** MODELOPTs: CONC ELEV RURAL ADJ U*

*** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE

**GROUP: VOL1** 

INCLUDING SOURCE(S): VOL1

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

X-COORD (	M) Y-COORD	(M) CONC	X-C	OORD (M) Y-	COORD (M)	CONC
 631862.10					1.19582	
631861.43	4175321.37		631861.09		1.33141	
631860.75	4175360.60	1.40583	631860.41	4175380.21	1.48549	
631860.07	4175399.83	1.57135	631859.73	4175419.44	1.66446	
631859.40	4175439.06	1.76627	631859.06	4175458.67	1.87840	
631858.72	4175478.29	2.00284	631858.38	4175497.90	2.14165	
631858.04	4175517.52	2.29725	631857.70	4175537.13	2.47192	
631857.37	4175556.75	2.66811	631857.03	4175576.36	2.88773	
631856.69	4175595.98	3.13252	631856.35	4175615.59	3.40287	
631856.01	4175635.21	3.69848	631855.67	4175654.82	4.01710	
631855.33	4175674.44	4.35495	631855.00	4175694.05	4.70509	
631854.66	4175713.67	5.05971	631854.32	4175733.28	5.40703	
631853.98	4175752.90	5.73412	631853.64	4175772.51	6.02622	
631853.30	4175792.13	6.26833	631852.97	4175811.74	6.44597	
631852.63	4175831.36	6.54684	631852.29	4175850.97	6.56271	
631851.95	4175870.59	6.48947	631851.61	4175890.20	6.33155	
631851.27	4175909.82	6.09774	631850.94	4175929.43	5.80285	
631850.60	4175949.05	5.46369	631850.26	4175968.66	5.09857	
631830.54	4175988.13	4.98152	631811.15	4175987.98	5.26671	
631791.77	4175987.83	5.58040	631772.39	4175987.67	5.92033	
631753.00	4175987.52	6.29276	631733.62	4175987.37	6.70148	
631714.24	4175987.22	7.15212	631694.85	4175987.07	7.64927	

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631675.47 4175986.92
                                                 631656.09
                              8.20356
                                                           4175986.77
                                                                           8.82261
    631636.70 4175986.62
                              9.51671
                                                                          10.29471
                                                 631617.32 4175986.46
               4175986.31
    631597.94
                              11.17096
                                                 631578.55
                                                            4175986.16
                                                                           12.16612
    631559.17
               4175986.01
                              13.29571
                                                 631539.79
                                                            4175985.86
                                                                           14.59038
    631520.40
               4175985.71
                              16.08276
                                                 631501.02
                                                            4175985.56
                                                                           17.81541
    631481.64
               4175985.40
                              19.83217
                                                 631462.25
                                                            4175985.25
                                                                           22.12950
    631442.87
               4175985.10
                              24.58837
                                                 631423.49
                                                            4175984.95
                                                                           26.76840
    631404.10 4175984.80
                              27.88743
                                                 631384.72
                                                            4175984.65
                                                                           27.35806
    631365.34
               4175984.50
                              26.07361
                                                 631345.95
                                                            4175984.35
                                                                           24.03865
                                                                          18.60889
    631326.57 4175984.19
                              21.44380
                                                 631307.19 4175984.04
    631287.80 4175983.89
                              15.83384
                                                 631050.63
                                                            4175100.50
                                                                           0.27963
    631050.63
               4175200.50
                              0.34381
                                                 631050.63
                                                            4175300.50
                                                                           0.42702
    631050.63
               4175400.50
                              0.54249
                                                 631050.63
                                                           4175500.50
                                                                           0.70319
    631050.63
               4175600.50
                              0.99946
                                                 631050.63
                                                            4175700.50
                                                                           1.32517
               4175800.50
                                                            4175900.50
    631050.63
                              1.76238
                                                 631050.63
                                                                           2.24511
    631050.63
               4176000.50
                              2.40852
                                                 631050.63
                                                            4176100.50
                                                                           2.37577
               4175100.50
                              0.31024
                                                 631150.63
                                                            4175200.50
                                                                           0.40481
    631150.63
    631150.63 4175300.50
                                                 631150.63 4175400.50
                                                                           0.72533
                              0.53921
  *** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-
977GSBU)\Documents\HRA\Tracy C ***
                                        12/18/23
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*** MODELOPTs: CONC ELEV RURAL ADJ U*

*** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE

**GROUP: VOL1** 

INCLUDING SOURCE(S): VOL1

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

X-COORD (	M) Y-COORI	O(M) CONC	X-C	OORD (M) Y	-COORD (M)	CONC
 631150.63						
631150.63	4175700.50	2.64500	631150.63		3.79606	
631150.63	4175900.50	4.59211	631150.63	4176000.50	4.68120	
631150.63	4176100.50	3.89021	631250.63	4175100.50	0.32721	
631250.63	4175200.50	0.44188	631250.63		0.62137	
631250.63	4175400.50	0.89292	631250.63	4175500.50	1.33015	
631250.63	4175600.50	2.22067	631250.63	4175700.50	4.80397	
631250.63	4175800.50	10.35480	631250.63	4175900.50	14.58236	
631250.63	4176000.50	10.40122	631250.63	4176100.50	6.01951	
631350.63	4175100.50	0.35004	631350.63	4175200.50	0.48303	
631350.63	4175300.50	0.70015	631350.63	4175400.50	1.03573	
631350.63	4175500.50	1.93948	631350.63	4175600.50	3.67030	
631350.63	4175700.50	10.02451	631350.63	4175800.50	0.00000	
631350.63	4175900.50	0.00000	631350.63	4176000.50	19.74389	
631350.63	4176100.50	7.44787	631450.63	4175100.50	0.41531	
631450.63	4175200.50	0.58118	631450.63	4175300.50	0.83831	
631450.63	4175400.50	1.44436	631450.63	4175500.50	2.45607	
631450.63	4175600.50	5.09054	631450.63	4175700.50	15.68189	
631450.63	4175800.50	0.00000	631450.63	4175900.50	0.00000	
631450.63	4176000.50	18.49233	631450.63		6.86002	
631550.63	4175100.50		631550.63		0.69503	

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631550.63
               4175300.50
                              1.01813
                                                 631550.63
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                                                                          1.70871
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                              2.91276
                                                 631550.63
                                                            4175600.50
                                                                          5.61723
    631550.63
                                                 631550.63
               4175700.50
                              13.08784
                                                            4175800.50
                                                                          33.33930
    631550.63
                              32.55020
                                                 631550.63
               4175900.50
                                                            4176000.50
                                                                          11.93256
    631550.63
               4176100.50
                                                 631650.63
                                                            4175100.50
                                                                          0.56685
                              5.44864
    631650.63
               4175200.50
                              0.78324
                                                 631650.63
                                                            4175300.50
                                                                          1.22255
    631650.63
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                              1.84034
                                                 631650.63
                                                            4175500.50
                                                                          2.90594
                                                 631650.63
    631650.63
                                                                          9.12699
               4175600.50
                              4.86918
                                                            4175700.50
    631650.63
               4175800.50
                              15.99293
                                                 631650.63
                                                            4175900.50
                                                                          15.43637
    631650.63
               4176000.50
                              8.14951
                                                 631650.63
                                                            4176100.50
                                                                          4.28678
    631750.63
               4175100.50
                              0.67263
                                                 631750.63
                                                            4175200.50
                                                                          0.90743
    631750.63
               4175300.50
                              1.25825
                                                 631750.63
                                                            4175400.50
                                                                          1.77837
    631750.63
               4175500.50
                              2.56592
                                                 631750.63
                                                            4175600.50
                                                                          3.93735
    631750.63
               4175700.50
                              6.52026
                                                 631750.63
                                                            4175800.50
                                                                          9.53721
    631750.63
               4175900.50
                              9.23984
                                                 631750.63
                                                            4176000.50
                                                                          5.90419
    631750.63
               4176100.50
                              3.44190
                                                 631850.63
                                                            4175100.50
                                                                          0.69760
                              0.91309
                                                            4175300.50
    631850.63
               4175200.50
                                                 631850.63
                                                                          1.20243
    631850.63
               4175400.50
                              1.59382
                                                 631850.63
                                                            4175500.50
                                                                          2.18720
               4175600.50
                                                 631850.63 4175700.50
    631850.63
                              3.22848
                                                                          4.87780
  *** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-
977GSBU)\Documents\HRA\Tracy C ***
                                        12/18/23
*** AERMET - VERSION 18081 *** ***
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                                                               PAGE 18
*** MODELOPTs: CONC ELEV RURAL ADJ U*
                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE
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**GROUP: VOL1** 

INCLUDING SOURCE(S): VOL1

*** MODELOPTs: CONC ELEV RURAL ADJ U*

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3

X-COORD (M) Y-COORD (M)	CONC X-COORD (M	I) Y-COORD (M) CONC
631850.63 4175800.50 6.4099	8 631850.63 4175900	0.50 6.23519
631850.63 4176000.50 4.46999	631850.63 4176100	0.50 2.84396
631950.63 4175100.50 0.6925	1 631950.63 4175200	0.50 0.86956
631950.63 4175300.50 1.09113	8 631950.63 4175400	0.50 1.39868
631950.63 4175500.50 1.89334	4 631950.63 4175600	0.50 2.70330
631950.63 4175700.50 3.78514	4 631950.63 4175800	0.50 4.64298
631950.63 4175900.50 4.52812	2 631950.63 4176000	0.50 3.49776
631950.63 4176100.50 2.39750	632050.63 4175100	0.50 0.65925
632050.63 4175200.50 0.7968	1 632050.63 4175300	0.50 0.97662
632050.63 4175400.50 1.2450	1 632050.63 4175500	0.50 1.67053
632050.63 4175600.50 2.29613	3 632050.63 4175700	0.50 3.02624
632050.63 4175800.50 3.54320	6 632050.63 4175900	0.50 3.46289
632050.63 4176000.50 2.81520	632050.63 4176100	0.50 2.05236
*** AERMOD - VERSION 19191 ***	*** C:\Users\Smith\Dropbox\My	PC (DESKTOP-
977GSBU)\Documents\HRA\Tracy C ***	12/18/23	
*** AERMET - VERSION 18081 *** *	**	*** 11:24:12
	PAC	E 19

*** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE

INCLUDING SOURCE(S): VOL2

## *** DISCRETE CARTESIAN RECEPTOR POINTS ***

**

** CONC OF OTHER IN MICROGRAMS/M**3

X-COORD (M)	Y-COORD (1	M) CONC	X-CO	OORD (M) Y	Y-COORD (M)	CONC
632121.21 4	174952.36	0.41966	632304.44	4174354.52	0.13600	
		0.44918	632420.62	4175510.15	1.58810	
		1.80602	631187.00	4175727.00	0.77330	
		0.72952	631121.00	4175719.00	0.63196	
		0.11581	631106.00	4174825.00	0.12614	
		0.15329	631322.00	4174522.00	0.07414	
		0.01700	630150.63	4173850.44	0.01871	
		0.02332	630850.63	4173850.44	0.03579	
		0.03209	631550.63	4173850.44	0.03776	
		0.04708	632250.63	4173850.44	0.06813	
		0.07971	632950.63	4173850.44	0.09727	
		0.10652	629800.63	4174200.44	0.02450	
		0.02773	630500.63	4174200.44	0.03801	
		0.04782	631200.63	4174200.44	0.04903	
		0.05789	631900.63	4174200.44	0.08851	
		0.10776	632600.63	4174200.44	0.12616	
		0.14704	633300.63	4174200.44	0.13869	
		0.03735	630150.63	4174550.44	0.04463	
		0.05625	630850.63	4174550.44	0.07028	
		0.09315	631550.63	4174550.44	0.08900	
		0.15440	632250.63	4174550.44	0.18464	
		0.22187	632950.63	4174550.44	0.21290	
		0.18997	629800.63	4174900.44	0.04523	
		0.05689	630500.63	4174900.44	0.07898	
		0.10526	631200.63	4174900.44	0.15699	
		0.19837	631900.63	4174900.44	0.31378	
632250.63 4	174900.44	0.39808	632600.63	4174900.44	0.38339	
	174900.44	0.32350	633300.63	4174900.44	0.28127	
629800.63 4	175250.44	0.05813	630150.63	4175250.44	0.08336	
630500.63 4		0.11843	630850.63	4175250.44	0.16785	
631200.63 4	175250.44	0.29017	631550.63	4175250.44	0.50662	
631900.63 4	175250.44	0.97294	632250.63	4175250.44	0.97379	
632600.63 4	175250.44	0.70487	632950.63	4175250.44	0.57064	
633300.63 4	175250.44	0.47304	629800.63	4175600.44	0.07364	
630150.63 4	175600.44	0.09911	630500.63	4175600.44	0.14713	
630850.63 4	175600.44	0.26001	631200.63	4175600.44	0.61360	
631550.63 4	175600.44	2.58385	631900.63	4175600.44	5.32136	
632250.63 4	175600.44	2.70507	632600.63	4175600.44	1.59552	
632950.63 4	175600.44	1.04010	633300.63	4175600.44	0.73596	
629800.63 4	175950.44	0.07633	630150.63	4175950.44	0.10502	
*** AERMOD - `	VERSION 191	91 *** *** C:\Users	s\Smith\Drop	box\My PC (	DESKTOP-	
977GSBU)\Docume			•	- `		
*** AERMET - VE	ERSION 18081	*** ***			***	11:24:12

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

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GROUP: VOL2

INCLUDING SOURCE(S): VOL2

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3

X-COORD (	M) Y-COORI	O(M) CON	NC X-CO	OORD (M) Y	-COORD (M)	CONC
630500.63	4175950.44	0.17708	630850.63	4175950.44	0.35364	
631200.63	4175950.44	1.13288	631550.63	4175950.44	12.99825	
631900.63	4175950.44	15.06674	632250.63	4175950.44	4.08279	
632600.63	4175950.44	1.95036	632950.63	4175950.44	1.17147	
633300.63	4175950.44	0.79023	629800.63	4176300.44	0.08575	
630150.63	4176300.44	0.12645	630500.63	4176300.44	0.21902	
630850.63	4176300.44	0.46480	631200.63	4176300.44	1.15345	
631550.63	4176300.44	2.43498	631900.63	4176300.44	2.02371	
632250.63	4176300.44	1.28614	632600.63	4176300.44	0.89847	
632950.63	4176300.44	0.67686	633300.63	4176300.44	0.52675	
629800.63	4176650.44	0.10001	630150.63	4176650.44	0.16276	
630500.63	4176650.44	0.25407	630850.63	4176650.44	0.44343	
631200.63	4176650.44	0.71518	631550.63	4176650.44	0.91392	
631900.63	4176650.44	0.82728	632250.63	4176650.44	0.66848	
632600.63	4176650.44	0.50000	632950.63	4176650.44	0.38569	
633300.63	4176650.44	0.32495	629800.63	4177000.44	0.11618	
630150.63	4177000.44	0.16288	630500.63	4177000.44	0.24363	
630850.63	4177000.44	0.34464	631200.63	4177000.44	0.43699	
631550.63	4177000.44	0.49105	631900.63	4177000.44	0.46476	
632250.63	4177000.44	0.38859	632600.63	4177000.44	0.33855	
632950.63	4177000.44	0.27659	633300.63	4177000.44	0.22578	
629800.63	4177350.44	0.11482	630150.63	4177350.44	0.15777	
630500.63	4177350.44	0.20486	630850.63	4177350.44	0.25529	
631200.63	4177350.44	0.29389	631550.63	4177350.44	0.30851	
631900.63	4177350.44	0.30206	632250.63	4177350.44	0.25991	
632600.63	4177350.44	0.24315	632950.63	4177350.44	0.20747	
633300.63	4177350.44	0.17967	631670.70	4175493.59	1.95881	
631669.80	4175641.41	5.63112	631665.32	4175796.39	0.00000	
631417.17	4175826.85	3.12914	631417.17	4175673.66	1.75605	
631422.55	4175484.63	0.89223	631268.42	4175983.74	1.54625	
631275.69	4175523.99	0.61947	631345.65	4175419.50	0.57054	
631384.72	4175441.30	0.68370	631491.93	4175442.21	0.94091	
631491.93	4175414.95	0.85354	631385.63	4175413.14	0.61244	
631358.37	4175395.87	0.55659	631409.25	4175336.81	0.53701	
631567.35	4175235.96	0.48889	631756.33	4175028.80	0.34803	
631807.22	4175003.36	0.35495	631867.18	4174987.91	0.37350	
631849.92	4175988.28	13.58620	631268.74	4175963.75	1.52873	
631269.05	4175943.76	1.51021	631269.37	4175923.77	1.49243	
631269.68	4175903.78	1.47511	631270.00	4175883.79	1.45817	
631270.32	4175863.81	1.44115	631270.63	4175843.82	1.42391	
*** AERMOD	O - VERSION	19191 *** ***	C:\Users\Smith\Drop	box\My PC (I	DESKTOP-	
977GSBU)\Docu			12/18/23	- \		
*** AERMET -	VERSION 180	081 *** ***			***	11:24:12
				PAGE 21		
*** MODEL OD		T DIT DID AT	A TO T TIM			

*** MODELOPTs: CONC ELEV RURAL ADJ U*

*** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE

GROUP: VOL2 **

INCLUDING SOURCE(S): VOL2

## *** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3

	X-COORD (	M)	Y-COORI	D (N	(1) C	ONC	X-C	OORD (M)	Y-C	OORD (M	ONC CONC
	631270.95	<u>Δ</u> 1	75823.83		.40267		631271.26	4175803.8	 	1.37691	
	631271.58		75783.85		1.19453		631271.20	4175763.8		1.14140	
	631272.21		75743.87		.09129		631272.53	4175723.8		1.04880	
	631272.85		75703.89		1.00278		631273.16	4175683.9		0.95532	
	631273.48		75663.91		0.90738		631273.79	4175643.9		0.86450	
	631274.11		75623.94		0.82636		631274.43	4175603.9		0.78004	
	631274.71		75583.96		0.73202		631275.06	4175563.9		0.68268	
	631275.37		75543.98		0.73202		631285.68	4175509.0		0.61621	
	631295.68		75494.14		0.60591		631305.67	4175479.2		0.60007	
	631315.67		75464.28		0.59404		631325.66	4175449.3		0.58511	
	631335.66		75434.43		0.58226		631358.67	4175426.7		0.59615	
	631371.70		75434.03		0.63178		631402.59	4175441.4		0.73000	
	631420.46		75441.60		0.77310		631438.33	4175441.7		0.73000	
	631456.19		75441.91		0.85561		631474.06	4175442.0		0.89805	
	631491.93		75428.58		0.89561		631474.21	4175414.6		0.81720	
	631456.50		75414.35		).78137		631438.78	4175414.0		0.74474	
	631421.06		75413.74		0.70155		631403.35	4175413.4		0.65658	
	631372.00		75404.51		0.70133		631371.09	4175381.1		0.55192	
	631383.81		75366.34		).54872		631396.53	4175351.5		0.54362	
	631425.06		75326.73		0.53807		631440.87	4175316.6		0.54261	
	631456.68		75326.75		0.53868		631472.49	4175296.4		0.53545	
	631488.30		75286.39		).53484		631504.11	4175276.3		0.53545	
	631519.92		75266.22		).51699		631535.73	4175256.1		0.52371	
	631551.54		75246.05		).49955		631579.95	4175222.1		0.31209	
	631592.55		75246.03		).45607		631605.15	4175222.1		0.47479	
	631617.74		75208.34 75180.72		).42849		631630.34	4175166.9		0.44374	
	631642.94		75150.72		).42849		631655.54	4175139.2		0.42132	
	631668.14		75133.10 75125.47		).38725		631680.74	4175139.2		0.39924	
	631693.34		75123.47 75097.85		).36723		631705.94	4175111.0		0.36854	
			75097.83				631703.94	4175056.4		0.35771	
	631718.53 631743.73		75070.23 75042.61		).36276 ).35377		631773.29	4175020.3		0.35171	
	631790.26				).35497		631822.21	4174999.3		0.35910	
	631837.20		74995.64		).36377					0.36871	
	631866.84		75007.53		0.38815		631866.50	4175027.1		0.41111	
	631866.16		75046.76		).44390		631865.83	4175066.3		0.47501	
	631865.49		75085.99		0.50654		631865.15	4175105.6		0.53745	
	631864.81		75125.22		0.57120		631864.47	4175144.8		0.60837	
	631864.13		75164.45		).64959		631863.80	4175184.0		0.75014	
	631863.46		75203.68		0.79861		631863.12			0.85202	
4	631862.78		75242.91		0.91118	ቋቋች <b>୯</b> /፲፲	631862.44	4175262.5		0.97679	
	*** AERMOD						s\Smith\Droj	pbox\My PC	(DE	SKTOP-	
	GSBU)\Docu:					12/18/23				***	11.24.12
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PAGE 22

## *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE

GROUP: VOL2 **

INCLUDING SOURCE(S): VOL2 ,

## *** DISCRETE CARTESIAN RECEPTOR POINTS ***

X-COORD (M	Y-COORD	(M) CONC	X-CC	OORD (M) Y-C	OORD (M)	CONC
631862.10	4175282.14	1.04990	631861.77	4175301.75	1.13157	
	4175321.37	1.22316	631861.09	4175340.98	1.32623	
631860.75	4175360.60	1.44274	631860.41	4175380.21	1.57467	
631860.07	4175399.83	1.72504	631859.73	4175419.44	1.89679	
631859.40	4175439.06	2.09391	631859.06	4175458.67	2.32079	
631858.72	4175478.29	2.58324	631858.38	4175497.90	2.88768	
631858.04	4175517.52	3.24275	631857.70	4175537.13	3.65809	
631857.37	4175556.75	4.14674	631857.03	4175576.36	4.72414	
631856.69	4175595.98	5.41215	631856.35	4175615.59	6.24268	
631856.01	4175635.21	7.26104	631855.67	4175654.82	8.52324	
631855.33	4175674.44	10.11121	631855.00	4175694.05	12.12587	
631854.66	4175713.67	14.68773	631854.32	4175733.28	17.89392	
631853.98	4175752.90	21.77077	631853.64	4175772.51	26.17905	
631853.30	4175792.13	30.75002	631852.97	4175811.74	34.86144	
631852.63	4175831.36	37.76345	631852.29	4175850.97	38.80056	
631851.95	4175870.59	37.66297	631851.61	4175890.20	34.58101	
631851.27	4175909.82	30.19907	631850.94	4175929.43	25.35054	
631850.60	4175949.05	20.73503	631850.26	4175968.66	16.78383	
631830.54	4175988.13	14.91551	631811.15	4175987.98	16.42978	
631791.77	4175987.83	18.20542	631772.39	4175987.67	20.22323	
631753.00	4175987.52	22.45865	631733.62	4175987.37	24.68470	
631714.24		26.32746	631694.85	4175987.07	26.73007	
631675.47	4175986.92	25.85373	631656.09	4175986.77	24.34567	
631636.70	4175986.62	22.22684	631617.32	4175986.46	19.63940	
	4175986.31	16.93591	631578.55	4175986.16	14.36594	
	4175986.01	12.07826	631539.79	4175985.86	10.12652	
	4175985.71	8.49432	631501.02	4175985.56	7.15347	
	4175985.40	6.05856	631462.25	4175985.25	5.16594	
	4175985.10	4.43755	631423.49	4175984.95	3.84109	
	4175984.80	3.34989	631384.72	4175984.65	2.94331	
	4175984.50	2.60429	631345.95	4175984.35	2.31965	
	4175984.19	2.07893	631307.19	4175984.04	1.87388	
	4175983.89	1.69790	631050.63	4175100.50	0.17539	
	4175200.50	0.20422	631050.63	4175300.50	0.24061	
	4175400.50	0.28730	631050.63	4175500.50	0.34337	
	4175600.50	0.41881	631050.63	4175700.50	0.46305	
	4175800.50	0.52920	631050.63	4175900.50	0.59275	
	4176000.50	0.63384	631050.63	4176100.50	0.72914	
	4175100.50	0.20192	631150.63	4175200.50	0.24177	
	4175300.50	0.29255	631150.63	4175400.50	0.35474	
		191 *** *** C:\User	s\Sm1th\Drop	box\My PC (DE	SKTOP-	
977GSBU)\Docum					ale ale -l-	11 04 10
*** AERMET - V	ERSION 1808	l *** ***		DAGE 22	***	11:24:12

*** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE

GROUP: VOL2

INCLUDING SOURCE(S): VOL2

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3

	X-COORD (	M) Y	-COORD	(M)	CONC	X-CO	OORD (M)	Y-COORD (M	) CONC
	631150.63	4174	5500 50	0.4349	 0	631150.63	4175600.5	0 0.53917	
	631150.63		5700.50	0.6648		631150.63	4175800.5		
	631150.63		5900.50	0.9206		631150.63	4176000.5		
	631150.63		5100.50	1.0172		631250.63	4175100.5		
	631250.63		5200.50	0.2870		631250.63	4175300.5		
	631250.63		5400.50	0.4381		631250.63	4175500.5		
	631250.63		5600.50	0.7055		631250.63	4175700.5		
	631250.63		5800.50	1.2610		631250.63	4175900.5		
	631250.63		5000.50	1.4402		631250.63	4176100.5		
	631350.63		5100.50	0.2748		631350.63	4175200.5		
	631350.63		300.50	0.4366		631350.63	4175400.5		
	631350.63		5500.50	0.7329		631350.63	4175600.5		
	631350.63		5700.50	1.4034		631350.63	4175800.5		
	631350.63		5900.50	2.2373		631350.63	4176000.5		
	631350.63		5100.50	2.2373		631450.63	4175100.5		
	631450.63		5200.50	0.4001		631450.63	4175300.5		
	631450.63		5400.50	0.7322		631450.63	4175500.5		
	631450.63		5600.50	1.5096		631450.63	4175700.5		
	631450.63		5800.50	3.7574		631450.63	4175700.5		
	631450.63		5000.50	4.6647		631450.63	4176100.5		
	631550.63		5100.50	0.3307		631550.63	4175200.5		
	631550.63		5300.50	0.5978		631550.63	4175400.5		
	631550.63		5500.50	1.3941		631550.63	4175600.5		
	631550.63		5700.50	4.8248		631550.63	4175800.5		
						631550.63			
	631550.63		5900.50	14.5680			4176000.5		
	631550.63		5100.50	6.0475		631650.63	4175100.5		
	631650.63		5200.50	0.4668		631650.63	4175300.5		
	631650.63		5400.50	1.2174		631650.63	4175500.5		
	631650.63		5600.50	3.6758		631650.63	4175700.5		
	631650.63		5800.50	0.0000		631650.63	4175900.5		
	631650.63		5000.50	19.8042		631650.63	4176100.5		
	631750.63		5100.50	0.4226		631750.63	4175200.5		
	631750.63		300.50	0.9594		631750.63	4175400.5		
	631750.63		5500.50	2.4593		631750.63	4175600.5		
	631750.63		5700.50	15.6812		631750.63	4175800.5		
	631750.63		5900.50	0.0000		631750.63	4176000.5		
	631750.63		5100.50	6.7995		631850.63	4175100.5		
	631850.63		5200.50	0.7797		631850.63	4175300.5		
	631850.63		5400.50	1.7105		631850.63	4175500.5		
	631850.63		5600.50	5.6117		631850.63	4175700.5		
	*** AERMOD					s\Smith\Drop	pbox\My PC	C (DESKTOP-	
	GSBU)\Docu								
**	* AERMET -	VERS	SION 180	81 *** *	***			***	11:24:12

*** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE

GROUP: VOL2

INCLUDING SOURCE(S): VOL2

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3

X-COORD (M) Y-COOF	RD (M) CONC	X-COORD (M) Y-	COORD (M)	CONC
631850.63 4175800.50	33.35466	631850.63 4175900.50	32.64249	
631850.63 4176000.50	11.93256	631850.63 4176100.50	5.41464	
631950.63 4175100.50	0.57257	631950.63 4175200.50	0.85558	
631950.63 4175300.50	1.22170	631950.63 4175400.50	1.84039	
631950.63 4175500.50	2.90601	631950.63 4175600.50	4.86877	
631950.63 4175700.50	9.12426	631950.63 4175800.50	15.98989	
631950.63 4175900.50	15.44970	631950.63 4176000.50	8.14087	
631950.63 4176100.50	4.25688	632050.63 4175100.50	0.62299	
632050.63 4175200.50	0.90553	632050.63 4175300.50	1.25806	
632050.63 4175400.50	1.77835	632050.63 4175500.50	2.56594	
632050.63 4175600.50	3.93787	632050.63 4175700.50	6.52230	
632050.63 4175800.50	9.53979	632050.63 4175900.50	9.24281	
632050.63 4176000.50	5.90145	632050.63 4176100.50	3.43686	
*** AERMOD - VERSION	19191 *** *** C:\	Users\Smith\Dropbox\My PC (D	ESKTOP-	
977GSBU)\Documents\HRA\7	Tracy C *** 12/1	8/23		
*** AERMET - VERSION 1	8081 *** ***		***	11:24:12
		PAGE 25		

*** MODELOPTs: CONC ELEV RURAL ADJ U*

*** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE

**GROUP: VOL3** 

INCLUDING SOURCE(S): VOL3

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

X-COORD (M	I) Y-COORD (	M) CONC	X-CO	OORD (M) Y-C	OORD (M)	CONC
632121.21	4174952.36	0.68255	632304.44	4174354.52	0.22206	
632192.15	4174956.32	0.64423	632420.62	4175510.15	1.59483	
632418.97	4175552.92	1.66318	631187.00	4175727.00	6.56953	
631166.00	4175729.00	5.38151	631121.00	4175719.00	3.67279	
631035.00	4174830.00	0.22618	631106.00	4174825.00	0.23863	
631937.00	4174528.00	0.26429	631322.00	4174522.00	0.10261	
629800.63	4173850.44	0.02160	630150.63	4173850.44	0.02315	
630500.63	4173850.44	0.03143	630850.63	4173850.44	0.04776	
631200.63	4173850.44	0.03798	631550.63	4173850.44	0.06440	
631900.63	4173850.44	0.07290	632250.63	4173850.44	0.09373	
632600.63	4173850.44	0.11831	632950.63	4173850.44	0.12498	
633300.63	4173850.44	0.11271	629800.63	4174200.44	0.03109	
630150.63	4174200.44	0.03799	630500.63	4174200.44	0.05699	

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630850.63
                4174200.44
                               0.06793
                                                   631200.63
                                                              4174200.44
                                                                             0.06240
                                                              4174200.44
     631550.63
                4174200.44
                               0.10561
                                                   631900.63
                                                                             0.14190
    632250.63
                                                              4174200.44
                                                                             0.18345
                4174200.44
                               0.16578
                                                  632600.63
    632950.63
                4174200.44
                               0.16259
                                                   633300.63
                                                              4174200.44
                                                                             0.15005
    629800.63
                4174550.44
                               0.05110
                                                   630150.63
                                                              4174550.44
                                                                             0.06298
     630500.63
                4174550.44
                               0.08638
                                                   630850.63
                                                              4174550.44
                                                                             0.11944
    631200.63
                4174550.44
                               0.13727
                                                  631550.63
                                                              4174550.44
                                                                             0.18326
    631900.63
                4174550.44
                               0.27322
                                                  632250.63
                                                              4174550.44
                                                                             0.30980
    632600.63
                4174550.44
                               0.26470
                                                   632950.63
                                                              4174550.44
                                                                             0.23693
    633300.63
                4174550.44
                               0.21296
                                                  629800.63
                                                              4174900.44
                                                                             0.06517
    630150.63
                4174900.44
                               0.08486
                                                   630500.63
                                                              4174900.44
                                                                             0.13064
    630850.63
                4174900.44
                               0.20075
                                                  631200.63
                                                              4174900.44
                                                                             0.30359
    631550.63
                4174900.44
                               0.48687
                                                   631900.63
                                                              4174900.44
                                                                             0.69741
    632250.63
                4174900.44
                               0.55876
                                                   632600.63
                                                              4174900.44
                                                                             0.44627
    632950.63
                4174900.44
                               0.38319
                                                   633300.63
                                                              4174900.44
                                                                             0.33263
    629800.63
                4175250.44
                               0.07842
                                                   630150.63
                                                              4175250.44
                                                                             0.13059
                                                                             0.38643
    630500.63
                4175250.44
                               0.22039
                                                   630850.63
                                                              4175250.44
     631200.63
                4175250.44
                               0.97734
                                                   631550.63
                                                              4175250.44
                                                                             2.18801
                4175250.44
                               1.72601
                                                   632250.63
                                                              4175250.44
     631900.63
                                                                             1.17646
    632600.63
                4175250.44
                               0.86377
                                                   632950.63
                                                              4175250.44
                                                                             0.65103
     633300.63
                4175250.44
                               0.50448
                                                   629800.63
                                                              4175600.44
                                                                             0.10507
    630150.63
                4175600.44
                               0.16088
                                                   630500.63
                                                              4175600.44
                                                                             0.28655
     630850.63
                4175600.44
                               0.69831
                                                   631200.63
                                                              4175600.44
                                                                             5.69794
                               33.30575
                                                   631900.63
    631550.63
                4175600.44
                                                              4175600.44
                                                                              5.40467
                                                                             1.30469
    632250.63
                4175600.44
                               2.28861
                                                   632600.63
                                                              4175600.44
    632950.63
                4175600.44
                               0.85833
                                                   633300.63
                                                              4175600.44
                                                                             0.61823
     629800.63
               4175950.44
                               0.11554
                                                  630150.63
                                                              4175950.44
                                                                             0.17409
  *** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-
977GSBU)\Documents\HRA\Tracy C ***
                                          12/18/23
*** AERMET - VERSION 18081 *** ***
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                                                                 PAGE 26
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CONC ELEV KUKAL ADJ_U

*** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE

GROUP: VOL3 ***

INCLUDING SOURCE(S): VOL3

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

```
0.59265
    631200.63
                4176650.44
                               0.61573
                                                  631550.63
                                                              4176650.44
    631900.63
                               0.48899
                                                                             0.40406
                4176650.44
                                                  632250.63
                                                              4176650.44
    632600.63
                               0.32272
                                                  632950.63
                                                              4176650.44
                                                                             0.26082
                4176650.44
    633300.63
                4176650.44
                               0.22718
                                                  629800.63
                                                              4177000.44
                                                                             0.15340
    630150.63
                4177000.44
                               0.21440
                                                  630500.63
                                                              4177000.44
                                                                             0.28004
    630850.63
                4177000.44
                               0.33773
                                                  631200.63
                                                              4177000.44
                                                                             0.36924
    631550.63
                4177000.44
                               0.36433
                                                  631900.63
                                                              4177000.44
                                                                             0.30758
                                                  632600.63
    632250.63
                4177000.44
                               0.28470
                                                              4177000.44
                                                                             0.23619
    632950.63
                4177000.44
                               0.20142
                                                  633300.63
                                                              4177000.44
                                                                             0.16848
    629800.63
                4177350.44
                               0.14367
                                                  630150.63
                                                              4177350.44
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977GSBU)\Documents\HRA\Tracy C ***
                                         12/18/23
*** AERMET - VERSION 18081 *** ***
                                                                                      11:24:12
                                                                 PAGE 27
*** MODELOPTs: CONC ELEV RURAL ADJ U*
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*** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE

**GROUP: VOL3** 

INCLUDING SOURCE(S): VOL3

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

X-COORD (	M) Y-COORI	O(M) CONC	X-COORD (M) Y-COORD (M)	CONC
631270.95	4175823.83	10.45164	631271.26 4175803.84 11.94324	
631271.58	4175783.85	13.67373	631271.90 4175763.86 15.57004	
631272.21	4175743.87	17.51785	631272.53 4175723.88 19.40689	
631272.85	4175703.89	20.96545	631273.16 4175683.90 21.80701	
631273.48	4175663.91	21.56374	631273.79 4175643.92 20.08534	
631274.11	4175623.94	17.89808	631274.43 4175603.95 15.22143	
631274.74	4175583.96	12.57188	631275.06 4175563.97 10.20587	
631275.37	4175543.98	8.38347	631285.68 4175509.06 6.60954	
631295.68	4175494.14	6.18036	631305.67 4175479.21 5.75174	
631315.67	4175464.28	5.32643	631325.66 4175449.35 4.90967	
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                                        12/18/23
*** AERMET - VERSION 18081 *** ***
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                                                                                   11:24:12
                                                               PAGE 28
*** MODELOPTs: CONC ELEV RURAL ADJ U*
                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE
GROUP: VOL3
                  INCLUDING SOURCE(S):
                                           VOL3
                        *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                     ** CONC OF OTHER IN MICROGRAMS/M**3
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X-COORD (	M) Y-COORD	(M) CONC	X-COORD (M) Y-COORD (M)	CONC
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631860.07	4175399.83	3.15995	631859.73 4175419.44 3.43129	
631859.40	4175439.06	3.72692	631859.06 4175458.67 4.04416	
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631856.69	4175595.98	6.22447	631856.35 4175615.59 6.38302	
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977GSBU)\Documents\HRA\Tracy C ***
                                         12/18/23
*** AERMET - VERSION 18081 *** ***
                                                                                     11:24:12
                                                                PAGE 29
*** MODELOPTs: CONC ELEV RURAL ADJ U*
                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE
GROUP: VOL3
                  INCLUDING SOURCE(S):
                                             VOL3
                        *** DISCRETE CARTESIAN RECEPTOR POINTS ***
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M) Y-COORD	(M) CONC	X-CO	OORD (M) Y-C	OORD (M)	CONC
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4175400.50	2.58300	631250.63	4175500.50	4.78477	
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4175800.50	10.33221	631250.63	4175900.50	6.03711	
4176000.50	3.66788	631250.63	4176100.50	2.42566	
	4175500.50 4175700.50 4175900.50 4176100.50 4175200.50 4175400.50 4175600.50 4175800.50	4175500.50	4175500.50       2.62528       631150.63         4175700.50       4.57208       631150.63         4175900.50       3.88869       631150.63         4176100.50       2.11173       631250.63         4175200.50       0.88128       631250.63         4175400.50       2.58300       631250.63         4175600.50       10.06391       631250.63         4175800.50       10.33221       631250.63	4175500.50       2.62528       631150.63       4175600.50         4175700.50       4.57208       631150.63       4175800.50         4175900.50       3.88869       631150.63       4176000.50         4176100.50       2.11173       631250.63       4175100.50         4175200.50       0.88128       631250.63       4175300.50         4175400.50       2.58300       631250.63       4175500.50         4175600.50       10.06391       631250.63       4175700.50         4175800.50       10.33221       631250.63       4175900.50	4175500.50       2.62528       631150.63       4175600.50       3.74305         4175700.50       4.57208       631150.63       4175800.50       4.67821         4175900.50       3.88869       631150.63       4176000.50       2.89358         4176100.50       2.11173       631250.63       4175100.50       0.59357         4175200.50       0.88128       631250.63       4175300.50       1.38375         4175400.50       2.58300       631250.63       4175500.50       4.78477         4175600.50       10.06391       631250.63       4175700.50       14.50857         4175800.50       10.33221       631250.63       4175900.50       6.03711

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                                         12/18/23
*** AERMET - VERSION 18081 *** ***
                                                                                     11:24:12
                                                                PAGE 30
*** MODELOPTs: CONC ELEV RURAL ADJ U*
                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE
GROUP: VOL3
                  INCLUDING SOURCE(S):
                                             VOL3
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*** DISCRETE CARTESIAN RECEPTOR POINTS ***

X-COORD (	(M) Y-COORI	O(M) CONC	X-CC	OORD (M) Y-	COORD (M)	CONC
631850.63	4175800.50	4.46075	631850.63	4175900.50	2.85323	
631850.63	4176000.50	1.95081	631850.63	4176100.50	1.45800	
631950.63	4175100.50	1.09149	631950.63	4175200.50	1.39962	
631950.63	4175300.50	1.89412	631950.63	4175400.50	2.70041	
631950.63	4175500.50	3.77962	631950.63	4175600.50	4.63820	
631950.63	4175700.50	4.52289	631950.63	4175800.50	3.49241	
631950.63	4175900.50	2.40619	631950.63	4176000.50	1.68795	
631950.63	4176100.50	1.27149	632050.63	4175100.50	0.97695	

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632050.63 4175200.50
                           1.24611
                                             632050.63 4175300.50
                                                                     1.67161
  632050.63 4175400.50
                           2.29434
                                             632050.63 4175500.50
                                                                     3.02147
                                             632050.63 4175700.50
  632050.63 4175600.50
                           3.54108
                                                                     3.46265
  632050.63 4175800.50
                           2.81242
                                             632050.63 4175900.50
                                                                     2.05504
                                                                     1.12887
  632050.63 4176000.50
                           1.48938
                                             632050.63 4176100.50
*** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-
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977GSBU)\Documents\HRA\Tracy C *** 12/18/23

*** AERMET - VERSION 18081 *** *** 11:24:12

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*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE

GROUP: VOL4 ***

INCLUDING SOURCE(S): VOL4

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

X-COORD (M) Y-COORI	O(M) CONC	X-COORD (M) Y-COORD (M)	CONC
632121.21 4174952.36	0.74094	632304.44 4174354.52 0.18533	
632192.15 4174956.32	0.76693	632420.62 4175510.15 2.67774	
632418.97 4175552.92	2.87954	631187.00 4175727.00 1.05878	
631166.00 4175729.00	0.98172	631121.00 4175719.00 0.83866	
631035.00 4174830.00	0.14662	631106.00 4174825.00 0.15907	
631937.00 4174528.00	0.21584	631322.00 4174522.00 0.09575	
629800.63 4173850.44	0.01930	630150.63 4173850.44 0.02076	
630500.63 4173850.44	0.02495	630850.63 4173850.44 0.04157	
631200.63 4173850.44	0.03755	631550.63 4173850.44 0.04539	
631900.63 4173850.44	0.05701	632250.63 4173850.44 0.08370	
632600.63 4173850.44	0.10016	632950.63 4173850.44 0.12269	
633300.63 4173850.44	0.12480	629800.63 4174200.44 0.02576	
630150.63 4174200.44	0.03269	630500.63 4174200.44 0.04480	
630850.63 4174200.44	0.05437	631200.63 4174200.44 0.05947	
631550.63 4174200.44	0.07349	631900.63 4174200.44 0.11455	
632250.63 4174200.44	0.13934	632600.63 4174200.44 0.17106	
632950.63 4174200.44	0.18288	633300.63 4174200.44 0.15985	
629800.63 4174550.44	0.04418	630150.63 4174550.44 0.04998	
630500.63 4174550.44	0.06808	630850.63 4174550.44 0.08364	
631200.63 4174550.44	0.11959	631550.63 4174550.44 0.12170	
631900.63 4174550.44	0.21913	632250.63 4174550.44 0.26970	
632600.63 4174550.44	0.30520	632950.63 4174550.44 0.25850	
633300.63 4174550.44	0.23290	629800.63 4174900.44 0.05507	
630150.63 4174900.44	0.06497	630500.63 4174900.44 0.09812	
630850.63 4174900.44	0.13497	631200.63 4174900.44 0.20735	
631550.63 4174900.44	0.31432	631900.63 4174900.44 0.52853	
632250.63 4174900.44	0.65197	632600.63 4174900.44 0.51476	
632950.63 4174900.44	0.43571	633300.63 4174900.44 0.37540	
629800.63 4175250.44	0.05920	630150.63 4175250.44 0.08894	
630500.63 4175250.44	0.14462	630850.63 4175250.44 0.22595	
631200.63 4175250.44	0.43808	631550.63 4175250.44 1.05808	
631900.63 4175250.44	2.28795	632250.63 4175250.44 1.61617	
632600.63 4175250.44	1.12532	632950.63 4175250.44 0.82945	
633300.63 4175250.44	0.62710	629800.63 4175600.44 0.07715	

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630150.63 4175600.44
                             0.10892
                                               630500.63 4175600.44
                                                                       0.16889
    630850.63 4175600.44
                             0.30832
                                               631200.63 4175600.44
                                                                       0.87699
    631550.63 4175600.44
                            10.19938
                                               631900.63 4175600.44
                                                                        22.19194
    632250.63 4175600.44
                             4.64687
                                               632600.63 4175600.44
                                                                        2.09035
    632950.63 4175600.44
                             1.22123
                                               633300.63 4175600.44
                                                                       0.81943
    629800.63 4175950.44
                             0.08407
                                               630150.63 4175950.44
                                                                       0.11569
  *** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-
977GSBU)\Documents\HRA\Tracy C ***
                                      12/18/23
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*** AERMET - VERSION 18081 *** *** 11:24:12

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*** MODELOPTs: CONC ELEV RURAL ADJ U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE

GROUP: VOL4 **

INCLUDING SOURCE(S): VOL4

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

X-COORD (	M) Y-COORD	(M) CONC	X-C	OORD (M) Y	Y-COORD (M)	CONC
 630500.63	4175950.44	0.19371	630850.63	4175950.44	0.40670	
631200.63	4175950.44	1.23384	631550.63	4175950.44	4.66142	
631900.63	4175950.44	3.73839	632250.63	4175950.44	2.00559	
632600.63	4175950.44	1.28753	632950.63	4175950.44	0.89212	
633300.63	4175950.44	0.65037	629800.63	4176300.44	0.09317	
630150.63	4176300.44	0.14252	630500.63	4176300.44	0.25292	
630850.63	4176300.44	0.46351	631200.63	4176300.44	0.89969	
631550.63	4176300.44	1.30723	631900.63	4176300.44	1.13409	
632250.63	4176300.44	0.85415	632600.63	4176300.44	0.61050	
632950.63	4176300.44	0.48067	633300.63	4176300.44	0.39472	
629800.63	4176650.44	0.10865	630150.63	4176650.44	0.16357	
630500.63	4176650.44	0.25105	630850.63	4176650.44	0.39013	
631200.63	4176650.44	0.53388	631550.63	4176650.44	0.62091	
631900.63	4176650.44	0.58212	632250.63	4176650.44	0.48545	
632600.63	4176650.44	0.39279	632950.63	4176650.44	0.31332	
633300.63	4176650.44	0.25698	629800.63	4177000.44	0.11532	
630150.63	4177000.44	0.16132	630500.63	4177000.44	0.22417	
630850.63	4177000.44	0.29013	631200.63	4177000.44	0.34418	
631550.63	4177000.44	0.37155	631900.63	4177000.44	0.35790	
632250.63	4177000.44	0.30211	632600.63	4177000.44	0.28124	
632950.63	4177000.44	0.23182	633300.63	4177000.44	0.19778	
629800.63	4177350.44	0.11440	630150.63	4177350.44	0.14843	
630500.63	4177350.44	0.18146	630850.63	4177350.44	0.21643	
631200.63	4177350.44	0.24431	631550.63	4177350.44	0.24866	
631900.63	4177350.44	0.24558	632250.63	4177350.44	0.21858	
632600.63	4177350.44	0.19844	632950.63	4177350.44	0.18257	
633300.63	4177350.44	0.15592	631670.70	4175493.59	10.50040	
631669.80	4175641.41	0.00000	631665.32	4175796.39	21.81206	
631417.17	4175826.85	3.63093	631417.17	4175673.66	3.36177	
631422.55	4175484.63	2.14998	631268.42	4175983.74	1.57566	
631275.69	4175523.99	1.04166	631345.65	4175419.50	1.03831	
631384.72	4175441.30	1.32329	631491.93	4175442.21	2.50672	
631491.93	4175414.95	2.20759	631385.63	4175413.14	1.16128	

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631358.37 4175395.87
                           1.01184
                                             631409.25 4175336.81
                                                                      0.99231
  631567.35 4175235.96
                           1.02325
                                             631756.33 4175028.80
                                                                      0.63982
                                             631867.18 4174987.91
  631807.22 4175003.36
                           0.64376
                                                                      0.67264
  631849.92 4175988.28
                           3.42887
                                             631268.74 4175963.75
                                                                      1.59660
  631269.05 4175943.76
                           1.61230
                                             631269.37 4175923.77
                                                                      1.62312
  631269.68 4175903.78
                           1.62867
                                             631270.00 4175883.79
                                                                      1.62929
  631270.32 4175863.81
                           1.62547
                                             631270.63 4175843.82
                                                                      1.61840
*** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-
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977GSBU)\Documents\HRA\Tracy C *** 12/18/23

*** AERMET - VERSION 18081 *** ***

*** 11:24:12

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*** MODELOPTs: CONC ELEV RURAL ADJ U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE

**GROUP: VOL4** 

INCLUDING SOURCE(S): VOL4

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

X-COORD (M) Y-COORD (M	I) CONC	X-CO	ORD (M) Y-C	OORD (M) CONC
631270.95 4175823.83 1	.60656	631271.26	4175803.84	1.59065
			4175763.86	1.54986
			4175723.88	1.51150
			4175683.90	1.33490
			4175643.92	1.27479
			4175603.95	1.21286
631274.74 4175583.96 1	.16658	631275.06	4175563.97	1.11154
		631285.68	4175509.06	1.05806
			4175479.21	1.06422
631315.67 4175464.28 1	.06472	631325.66	4175449.35	1.05675
631335.66 4175434.43 1	.05661	631358.67	4175426.77	1.10528
631371.70 4175434.03 1	.19560	631402.59	4175441.45	1.45266
631420.46 4175441.60 1	.82318	631438.33	4175441.76	1.96880
631456.19 4175441.91 2	.12993	631474.06	4175442.06	2.30875
631491.93 4175428.58 2	.35086	631474.21	4175414.65	2.05023
631456.50 4175414.35 1	.90620	631438.78	4175414.05	1.53983
631421.06 4175413.74 1	.40403	631403.35	4175413.44	1.27787
631372.00 4175404.51 1	.08488	631371.09	4175381.11	1.00706
631383.81 4175366.34 1	.00532	631396.53	4175351.58	1.00016
631425.06 4175326.73 1	.00587		4175316.64	1.02892
	.03453	631472.49	4175296.47	1.04314
631488.30 4175286.39 1	.05921	631504.11	4175276.30	1.05572
			4175256.13	1.05623
			4175222.15	0.99029
				0.91720
				0.85159
				0.79128
				0.74220
			4175084.04	0.70310
			4175056.42	0.66999
			4175020.32	0.64451
631790.26 4175011.84 0	0.64762	631822.21	4174999.50	0.64992

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631837.20 4174995.64
                           0.65721
                                             631852.19 4174991.77
                                                                     0.66513
  631866.84 4175007.53
                           0.70976
                                             631866.50 4175027.14
                                                                     0.76659
  631866.16 4175046.76
                           0.84441
                                             631865.83 4175066.37
                                                                     0.99045
  631865.49 4175085.99
                           1.06633
                                             631865.15 4175105.60
                                                                      1.15004
                                             631864.47 4175144.83
  631864.81 4175125.22
                           1.24409
                                                                      1.35007
  631864.13 4175164.45
                           1.47006
                                             631863.80 4175184.06
                                                                     1.60626
  631863.46 4175203.68
                           1.76150
                                             631863.12 4175223.29
                                                                     1.93879
  631862.78 4175242.91
                           2.14234
                                             631862.44 4175262.52
                                                                     2.37644
*** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-
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977GSBU)\Documents\HRA\Tracy C *** 12/18/23

*** *** AERMET - VERSION 18081 *** *** 11:24:12

PAGE 34

*** MODELOPTs: CONC ELEV RURAL ADJ U*

*** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE

**GROUP: VOL4** 

INCLUDING SOURCE(S): VOL4

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

X-COORD (M) Y-COO	PRD (M) CONC	X-COORD (M) Y-COORD	(M) CONC
631862.10 4175282.14	4 2.64691	631861.77 4175301.75 2.9600	)8
631861.43 4175321.3		631861.09 4175340.98 3.7487	
631860.75 4175360.60		631860.41 4175380.21 4.8402	
631860.07 4175399.83		631859.73 4175419.44 6.4027	
631859.40 4175439.00		631859.06 4175458.67 8.7426	
631858.72 4175478.29		631858.38 4175497.90 12.430	
631858.04 4175517.52		631857.70 4175537.13 18.252	
631857.37 4175556.73		631857.03 4175576.36 26.343	387
631856.69 4175595.98		631856.35 4175615.59 34.319	
631856.01 4175635.2	1 36.71194	631855.67 4175654.82 37.263	397
631855.33 4175674.4	4 35.79564	631855.00 4175694.05 32.588	362
631854.66 4175713.6	7 28.30644	631854.32 4175733.28 23.697	199
631853.98 4175752.90	0 19.37892	631853.64 4175772.51 15.713	323
631853.30 4175792.13	3 12.79667	631852.97 4175811.74 10.567	738
631852.63 4175831.30	6 8.88031	631852.29 4175850.97 7.5967	78
631851.95 4175870.59	9 6.59564	631851.61 4175890.20 5.7990	)6
631851.27 4175909.82	2 5.14897	631850.94 4175929.43 4.6100	)1
631850.60 4175949.03	5 4.15571	631850.26 4175968.66 3.7692	20
631830.54 4175988.13	3 3.53998	631811.15 4175987.98 3.6534	12
631791.77 4175987.83	3 3.77341	631772.39 4175987.67 3.8903	39
631753.00 4175987.52		631733.62 4175987.37 4.1022	
631714.24 4175987.22		631694.85 4175987.07 4.2489	
631675.47 4175986.92		631656.09 4175986.77 4.3088	
631636.70 4175986.62		631617.32 4175986.46 4.2657	
631597.94 4175986.3		631578.55 4175986.16 4.1087	
631559.17 4175986.0		631539.79 4175985.86 3.8492	
631520.40 4175985.7		631501.02 4175985.56 3.5194	
631481.64 4175985.40		631462.25 4175985.25 3.1554	
631442.87 4175985.10		631423.49 4175984.95 2.7870	
631404.10 4175984.80		631384.72 4175984.65 2.4348	
631365.34 4175984.50	0 2.26911	631345.95 4175984.35 2.1118	32

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631326.57 4175984.19
                             1.96347
                                               631307.19 4175984.04
                                                                         1.82458
    631287.80 4175983.89
                             1.69526
                                               631050.63 4175100.50
                                                                        0.24106
    631050.63 4175200.50
                             0.28982
                                               631050.63 4175300.50
                                                                        0.34886
    631050.63 4175400.50
                             0.41349
                                               631050.63 4175500.50
                                                                         0.46381
    631050.63 4175600.50
                             0.53204
                                               631050.63
                                                          4175700.50
                                                                        0.55634
    631050.63 4175800.50
                             0.61362
                                               631050.63
                                                         4175900.50
                                                                        0.72962
    631050.63 4176000.50
                             0.75524
                                               631050.63 4176100.50
                                                                        0.75592
    631150.63 4175100.50
                             0.28247
                                               631150.63 4175200.50
                                                                        0.35161
    631150.63 4175300.50
                             0.44224
                                               631150.63 4175400.50
                                                                        0.54584
  *** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-
977GSBU)\Documents\HRA\Tracy C ***
                                       12/18/23
*** AERMET - VERSION 18081 *** ***
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*** MODELOPTs: CONC ELEV RURAL ADJ U*

*** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE

GROUP: VOL4 **

INCLUDING SOURCE(S): VOL4

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

X-COORD (M) Y-COORD (M)	CONC X-CO	OORD (M) Y-CO	OORD (M) CONC
631150.63 4175500.50 0.6	64218 631150.63	4175600.50	0.73540
	91852 631150.63		0.96518
	01728 631150.63		1.03186
	00061 631250.63		0.34088
	43195 631250.63		0.56060
	72581 631250.63		0.89800
	06812 631250.63	4175700.50	1.22410
631250.63 4175800.50 1.4	44546 631250.63	4175900.50	1.50045
631250.63 4176000.50 1.4	45980 631250.63	4176100.50	1.32638
631350.63 4175100.50 0.4	41926 631350.63	4175200.50	0.54833
631350.63 4175300.50 0.7	74145 631350.63	4175400.50	0.99676
631350.63 4175500.50 1.3	38143 631350.63	4175600.50	1.99751
631350.63 4175700.50 2.2	23597 631350.63	4175800.50	2.40373
631350.63 4175900.50 2.3	37370 631350.63	4176000.50	2.09268
631350.63 4176100.50 1.7	71852 631450.63	4175100.50	0.51186
631450.63 4175200.50 0.7	70567 631450.63	4175300.50	0.99151
631450.63 4175400.50 1.5	52331 631450.63	4175500.50	2.63629
631450.63 4175600.50 3.7	75536 631450.63		4.54692
631450.63 4175800.50 4.6	66982 631450.63	4175900.50	3.90083
631450.63 4176000.50 2.9	90198 631450.63	4176100.50	2.12617
	59913 631550.63		0.85792
	32423 631550.63		2.59061
	83427 631550.63		10.20371
	55847 631550.63	4175800.50	10.40521
	04345 631550.63		3.67807
	43862 631650.63		0.66029
	99225 631650.63	4175300.50	1.94989
	68846 631650.63		10.06434
	00000 631650.63		0.00000
631650.63 4175800.50 19.	73374 631650.63	4175900.50	7.45778

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631650.63 4176000.50
                           4.00679
                                             631650.63 4176100.50
                                                                     2.53152
    631750.63 4175100.50
                            0.83389
                                             631750.63 4175200.50
                                                                     1.44542
    631750.63 4175300.50
                            2.46272
                                             631750.63 4175400.50
                                                                     5.10928
    631750.63 4175500.50
                           15.64315
                                             631750.63 4175600.50
                                                                     0.00000
    631750.63 4175700.50
                           0.00000
                                             631750.63 4175800.50
                                                                    18.40287
    631750.63 4175900.50
                            6.81123
                                             631750.63 4176000.50
                                                                     3.75750
    631750.63 4176100.50
                            2.41712
                                             631850.63 4175100.50
                                                                     1.10859
    631850.63 4175200.50
                           1.70967
                                             631850.63 4175300.50
                                                                     2.91524
    631850.63 4175400.50
                           5.60791
                                             631850.63 4175500.50
                                                                    13.07640
    631850.63 4175600.50
                           33.29790
                                             631850.63 4175700.50
                                                                     32.55808
  *** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-
977GSBU)\Documents\HRA\Tracy C ***
                                     12/18/23
*** AERMET - VERSION 18081 *** ***
                                                                             11:24:12
                                                          PAGE 36
*** MODELOPTs: CONC ELEV RURAL ADJ U*
              *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE
GROUP: VOL4
                INCLUDING SOURCE(S): VOL4
                      *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                   ** CONC OF OTHER IN MICROGRAMS/M**3
   X-COORD (M) Y-COORD (M)
                                 CONC
                                                  X-COORD (M) Y-COORD (M)
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                            2.30367
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                                                                     1.68851
  *** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-
977GSBU)\Documents\HRA\Tracy C ***
                                     12/18/23
*** AERMET - VERSION 18081 *** ***
                                                                             11:24:12
                                                          PAGE 37
*** MODELOPTs: CONC ELEV RURAL ADJ U*
               *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE
GROUP: VOL5
                INCLUDING SOURCE(S): VOL5
                      *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                   ** CONC OF OTHER IN MICROGRAMS/M**3
   X-COORD (M) Y-COORD (M)
                                 CONC
                                                  X-COORD (M) Y-COORD (M)
                                                                                 CONC
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  *** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-
977GSBU)\Documents\HRA\Tracy C ***
                                         12/18/23
*** AERMET - VERSION 18081 *** ***
                                                                              ***
                                                                                     11:24:12
                                                                PAGE 38
*** MODELOPTs: CONC ELEV RURAL ADJ U*
                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE
GROUP: VOL5
                  INCLUDING SOURCE(S):
                                             VOL5
                        *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                     ** CONC OF OTHER IN MICROGRAMS/M**3
   X-COORD (M) Y-COORD (M)
                                     CONC
                                                        X-COORD (M) Y-COORD (M)
                                                                                          CONC
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  *** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-
977GSBU)\Documents\HRA\Tracy C ***
                                         12/18/23
*** AERMET - VERSION 18081 *** ***
                                                                              ***
                                                                                      11:24:12
                                                                 PAGE 39
*** MODELOPTs: CONC ELEV RURAL ADJ U*
                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE
GROUP: VOL5
                  INCLUDING SOURCE(S):
                                             VOL5
                        *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                      ** CONC OF OTHER IN MICROGRAMS/M**3
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   X-COORD (M) Y-COORD (M)
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  *** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-
977GSBU)\Documents\HRA\Tracy C ***
                                         12/18/23
*** AERMET - VERSION 18081 *** ***
                                                                             ***
                                                                                     11:24:12
                                                                PAGE 41
*** MODELOPTs: CONC ELEV RURAL ADJ_U*
                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE
GROUP: VOL5
                  INCLUDING SOURCE(S):
                                             VOL5
                        *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                     ** CONC OF OTHER IN MICROGRAMS/M**3
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X-COORD (N	M) Y-COOR	D (M)	CONC	X-CC	OORD (M)	Y-COORD (M)	CONC
631150.63	4175500.50	0.79684		631150.63	4175600.50	0 0.87218	
	4175700.50	1.01445		631150.63	4175800.50		
	4175900.50	1.00059		631150.63	4176000.50		
	4176100.50	0.82799		631250.63	4175100.50		
	4175200.50	0.70589		631250.63	4175300.50		
	4175400.50	1.08378		631250.63	4175500.50		
	4175600.50	1.32953		631250.63	4175700.50		
	4175800.50	1.46121		631250.63	4175900.50		
	4176000.50	1.14896		631250.63	4176100.50		
	4175100.50	0.69481		631350.63	4175200.50		
	4175300.50	1.37606		631350.63	4175400.50		
	4175500.50	2.22588		631350.63	4175600.50		
	4175700.50	2.37067		631350.63	4175800.50		
	4175900.50	1.71979		631350.63	4176000.50		
	4176100.50	1.11373		631450.63	4175100.50		
	4175200.50	1.43793		631450.63	4175300.50		
	4175400.50	3.74908		631450.63	4175500.50		
	4175600.50	4.66052		631450.63	4175700.50		
	4175800.50	2.90280		631450.63	4175900.50		
	4176000.50	1.59429		631450.63	4176100.50		
	4175100.50	1.30746		631550.63	4175200.50		
	4175300.50	4.75409		631550.63	4175400.50		
	4175500.50	14.53068		631550.63	4175600.5		
	4175700.50	6.05550		631550.63	4175800.50		
	4175900.50	2.44167		631550.63	4176000.50		
	4176100.50	1.31161		631650.63	4175100.50		
	4175200.50	3.16401		631650.63	4175300.50		
	4175400.50	0.00000		631650.63	4175500.50		
	4175600.50	19.82237		631650.63	4175700.5		
	4175800.50	4.01147		631650.63	4175900.50		
	4176000.50	1.77304		631650.63	4176100.50		
	4175100.50	2.43168		631750.63	4175200.50		
	4175300.50	15.66545		631750.63	4175400.5		
	4175500.50	0.00000		631750.63	4175600.50		
	4175700.50	6.84822		631750.63			
	4175900.50	2.42799		631750.63			
	4176100.50	1.28514		631850.63			
	4175200.50	5.61527		631850.63			
	4175400.50			631850.63			
	4175600.50			631850.63			
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977GSBU)\Docum			12/18/23			ماد ماد ماد	11 04 10
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*** MODELOPT	s: CONC E	ELEV RUR	AL ADJ_U*		PAGE	42	
GROUP: VOL5	*** THE PEI	RIOD ( 438	48 HRS) AVE	ERAGE CO	NCENTRAT	TION VALUES	S FOR SOURCE
GROOT, VOLS		NG SOURC	CE(S): VOL	5 ,			
*** DISCRETE CARTESIAN RECEPTOR POINTS ***							

X-COORD (M)	Y-COORD (	M) CONC	X-CC	OORD (M)	Y-COORD (M)	) CONC
631850.63 4	175800.50	3.24087	631850.63	4175900.50	2.16439	
631850.63 4	176000.50	1.56836	631850.63	4176100.50	1.19503	
631950.63 4	175100.50	2.91548	631950.63	4175200.50	4.87836	
631950.63 4	175300.50	9.13339	631950.63	4175400.50	15.97581	
631950.63 4	175500.50	15.43074	631950.63	4175600.50	8.14449	
631950.63 4	175700.50	4.30170	631950.63	4175800.50	2.76128	
631950.63 4	175900.50	1.93342	631950.63	4176000.50	1.42028	
631950.63 4	176100.50	1.08528	632050.63	4175100.50	2.57355	
632050.63 4	175200.50	3.94216	632050.63	4175300.50	6.52954	
632050.63 4	175400.50	9.54234	632050.63	4175500.50	9.24330	
632050.63 4	175600.50	5.91078	632050.63	4175700.50	3.46295	
632050.63 4	175800.50	2.30996	632050.63	4175900.50	1.69984	
632050.63 4	176000.50	1.30665	632050.63	4176100.50	1.01921	
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977GSBU)\Docume	nts\HRA\Tracy	C *** 12/18/23	•	•		
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*** MODELOPTS: CONC ELEV RURAL ADJ U*

*** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE

GROUP: VOL6

INCLUDING SOURCE(S): VOL6

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

X-COORD (M) Y-COORD	(M) CONC	X-COORD (M) Y-COORD (M)	CONC
632121.21 4174952.36	1.13757	632304.44 4174354.52 0.30438	
632192.15 4174956.32	1.06601	632420.62 4175510.15 1.96501	
632418.97 4175552.92	1.88062	631187.00 4175727.00 2.73457	
631166.00 4175729.00	2.48081	631121.00 4175719.00 2.04329	
631035.00 4174830.00	0.27134	631106.00 4174825.00 0.30500	
631937.00 4174528.00	0.38441	631322.00 4174522.00 0.14053	
629800.63 4173850.44	0.02315	630150.63 4173850.44 0.02518	
630500.63 4173850.44	0.03187	630850.63 4173850.44 0.05359	
631200.63 4173850.44	0.04627	631550.63 4173850.44 0.06754	
631900.63 4173850.44	0.08516	632250.63 4173850.44 0.11483	
632600.63 4173850.44	0.14722	632950.63 4173850.44 0.15038	
633300.63 4173850.44	0.13260	629800.63 4174200.44 0.03195	
630150.63 4174200.44	0.04192	630500.63 4174200.44 0.05984	
630850.63 4174200.44	0.07733	631200.63 4174200.44 0.07998	
631550.63 4174200.44	0.11796	631900.63 4174200.44 0.18243	
632250.63 4174200.44	0.21968	632600.63 4174200.44 0.23471	
632950.63 4174200.44	0.20101	633300.63 4174200.44 0.18568	
629800.63 4174550.44	0.05576	630150.63 4174550.44 0.06923	
630500.63 4174550.44	0.09712	630850.63 4174550.44 0.12978	
631200.63 4174550.44	0.19084	631550.63 4174550.44 0.22458	
631900.63 4174550.44	0.39999	632250.63 4174550.44 0.44224	
632600.63 4174550.44	0.35583	632950.63 4174550.44 0.31746	

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633300.63
               4174550.44
                              0.28162
                                                  629800.63
                                                             4174900.44
                                                                            0.07045
    630150.63
                4174900.44
                              0.09404
                                                             4174900.44
                                                 630500.63
                                                                            0.15056
    630850.63
                4174900.44
                              0.23560
                                                 631200.63
                                                             4174900.44
                                                                            0.43814
    631550.63
               4174900.44
                              0.78022
                                                 631900.63
                                                             4174900.44
                                                                            1.23971
    632250.63
               4174900.44
                              0.88427
                                                 632600.63
                                                             4174900.44
                                                                            0.68775
    632950.63
               4174900.44
                              0.55772
                                                 633300.63
                                                             4174900.44
                                                                            0.45520
    629800.63
                4175250.44
                              0.08329
                                                 630150.63
                                                             4175250.44
                                                                            0.12616
    630500.63
               4175250.44
                                                 630850.63
                                                             4175250.44
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    631200.63
                4175250.44
                               1.45687
                                                 631550.63
                                                             4175250.44
                                                                            8.22445
    631900.63
               4175250.44
                              4.47618
                                                 632250.63
                                                             4175250.44
                                                                            2.23735
    632600.63
                4175250.44
                               1.33333
                                                 632950.63
                                                             4175250.44
                                                                            0.89059
    633300.63
               4175250.44
                              0.64149
                                                 629800.63
                                                             4175600.44
                                                                            0.09520
    630150.63
               4175600.44
                              0.14510
                                                 630500.63
                                                            4175600.44
                                                                            0.25316
    630850.63
               4175600.44
                              0.58555
                                                 631200.63
                                                             4175600.44
                                                                            3.26504
                                                             4175600.44
    631550.63
               4175600.44
                              18.51528
                                                  631900.63
                                                                            5.10352
    632250.63
               4175600.44
                              2.32106
                                                 632600.63
                                                            4175600.44
                                                                            1.34156
                                                                            0.63597
    632950.63
               4175600.44
                              0.88356
                                                 633300.63
                                                            4175600.44
    629800.63 4175950.44
                                                 630150.63 4175950.44
                              0.10833
                                                                            0.16748
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977GSBU)\Documents\HRA\Tracy C ***
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*** MODELOPTs: CONC ELEV RURAL ADJ U*

*** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE

**GROUP: VOL6** 

INCLUDING SOURCE(S): VOL6

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

X-COORD (M	I) Y-COORD (	M) CONC	X-CO	OORD (M) Y-C	COORD (M)	CONC
630500.63	4175950.44	0.32683	630850.63	4175950.44	0.74783	
631200.63	4175950.44	1.68857	631550.63	4175950.44	2.02029	
631900.63	4175950.44	1.38966	632250.63	4175950.44	0.91314	
632600.63	4175950.44	0.68800	632950.63	4175950.44	0.53892	
633300.63	4175950.44	0.43074	629800.63	4176300.44	0.13021	
630150.63	4176300.44	0.20700	630500.63	4176300.44	0.34324	
630850.63	4176300.44	0.56461	631200.63	4176300.44	0.77912	
631550.63	4176300.44	0.80903	631900.63	4176300.44	0.65165	
632250.63	4176300.44	0.52290	632600.63	4176300.44	0.40188	
632950.63	4176300.44	0.32500	633300.63	4176300.44	0.27892	
629800.63	4176650.44	0.13904	630150.63	4176650.44	0.20328	
630500.63	4176650.44	0.29057	630850.63	4176650.44	0.38103	
631200.63	4176650.44	0.44947	631550.63	4176650.44	0.44788	
631900.63	4176650.44	0.38864	632250.63	4176650.44	0.34767	
632600.63	4176650.44	0.28358	632950.63	4176650.44	0.23553	
633300.63	4176650.44	0.19592	629800.63	4177000.44	0.13733	
630150.63	4177000.44	0.18098	630500.63	4177000.44	0.22591	
630850.63	4177000.44	0.26490	631200.63	4177000.44	0.29535	
631550.63	4177000.44	0.29234	631900.63	4177000.44	0.26776	
632250.63	4177000.44	0.23169	632600.63	4177000.44	0.21631	
632950.63	4177000.44	0.18170	633300.63	4177000.44	0.15891	

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629800.63
               4177350.44
                              0.12600
                                                 630150.63
                                                            4177350.44
                                                                           0.15101
    630500.63
               4177350.44
                              0.17454
                                                 630850.63
                                                            4177350.44
                                                                           0.19598
                              0.20799
    631200.63
               4177350.44
                                                 631550.63
                                                            4177350.44
                                                                           0.20620
                              0.19641
                                                 632250.63
    631900.63
               4177350.44
                                                            4177350.44
                                                                           0.16953
                              0.16362
                                                 632950.63
                                                                           0.14747
    632600.63
               4177350.44
                                                            4177350.44
    633300.63
               4177350.44
                              0.12833
                                                 631670.70
                                                            4175493.59
                                                                           28.31754
    631669.80 4175641.41
                              7.75787
                                                 631665.32
                                                            4175796.39
                                                                           3.22276
    631417.17
               4175826.85
                              3.48278
                                                 631417.17
                                                            4175673.66
                                                                           8.80732
    631422.55
               4175484.63
                              0.00000
                                                            4175983.74
                                                                           1.70324
                                                 631268.42
    631275.69 4175523.99
                              5.80124
                                                 631345.65
                                                            4175419.50
                                                                           10.58783
    631384.72
               4175441.30
                              25.01679
                                                  631491.93
                                                            4175442.21
                                                                           0.00000
    631491.93
               4175414.95
                              0.00000
                                                 631385.63
                                                            4175413.14
                                                                           20.17438
    631358.37
               4175395.87
                              10.87907
                                                  631409.25 4175336.81
                                                                           11.28939
    631567.35 4175235.96
                              7.30583
                                                 631756.33
                                                            4175028.80
                                                                           2.08245
    631807.22 4175003.36
                              1.84846
                                                 631867.18
                                                            4174987.91
                                                                           1.68282
    631849.92
               4175988.28
                              1.34862
                                                 631268.74
                                                            4175963.75
                                                                           1.80473
               4175943.76
    631269.05
                              1.91665
                                                 631269.37
                                                            4175923.77
                                                                           2.03883
               4175903.78
    631269.68
                              2.17226
                                                 631270.00
                                                            4175883.79
                                                                           2.31761
    631270.32 4175863.81
                                                 631270.63 4175843.82
                              2.47527
                                                                           2.64493
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977GSBU)\Documents\HRA\Tracy C ***
                                         12/18/23
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*** AERMET - VERSION 18081 *** *** 11:24:12

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*** MODELOPTs: CONC ELEV RURAL ADJ U*

*** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE

**GROUP: VOL6** 

INCLUDING SOURCE(S): VOL6

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

X-COORD (	M) Y-COORI	O(M) CONC	C	X-COORD (M)	Y-COORD (M)	CONC
 631270.95	4175823.83	2.83123	63127	1.26 4175803.8	3.03527	
631271.58	4175783.85	3.25987	63127	1.90 4175763.8	3.50014	
631272.21	4175743.87	3.75443	631272	2.53 4175723.8	38 4.02039	
631272.85	4175703.89	4.29512	63127.	3.16 4175683.9	00 4.57275	
631273.48	4175663.91	4.84713	63127.	3.79 4175643.9	5.11095	
631274.11	4175623.94	5.35416	63127	4.43 4175603.9	5.55467	
631274.74	4175583.96	5.70110	63127:	5.06 4175563.9	5.78044	
631275.37	4175543.98	5.81823	63128:	5.68 4175509.0	6.34971	
631295.68	4175494.14	6.94550	63130:	5.67 4175479.2	7.61963	
631315.67	4175464.28	8.35641	63132:	5.66 4175449.3	9.11546	
631335.66	4175434.43	9.90962	63135	8.67 4175426.7	77 13.52032	
631371.70	4175434.03	18.01192	63140	2.59 4175441.	45 0.00000	
631420.46	4175441.60	0.00000	63143	8.33 4175441.7	76 0.00000	
631456.19	4175441.91	0.00000	63147	4.06 4175442.0	0.00000	
631491.93	4175428.58	0.00000	63147	4.21 4175414.6	0.00000	
631456.50	4175414.35	0.00000	63143	8.78 4175414.0	0.00000	
631421.06	4175413.74	0.00000	631403	3.35 4175413.4	0.00000	
631372.00	4175404.51	14.47624	63137	1.09 4175381.	11 11.55425	
631383.81	4175366.34	11.93022	63139	6.53 4175351.	58 11.82787	
631425.06	4175326.73	11.56775	63144	0.87 4175316.	64 11.61698	

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631456.68
          4175306.56
                         11.34162
                                              631472.49 4175296.47
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631488.30
          4175286.39
                         10.33609
                                              631504.11
                                                         4175276.30
                                                                        9.68224
631519.92
           4175266.22
                          9.04009
                                             631535.73
                                                        4175256.13
                                                                       8.44599
631551.54
           4175246.05
                          7.85635
                                             631579.95
                                                        4175222.15
                                                                       6.53231
631592.55
           4175208.34
                          5.86816
                                             631605.15
                                                        4175194.53
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631617.74
           4175180.72
                          4.81762
                                             631630.34
                                                        4175166.91
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631642.94
           4175153.10
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                                                        4175139.29
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631668.14
           4175125.47
                          3.40905
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                                                        4175111.66
                                                                       3.15383
631693.34
           4175097.85
                          2.92451
                                             631705.94
                                                        4175084.04
                                                                       2.72002
631718.53
           4175070.23
                          2.53571
                                             631731.13
                                                        4175056.42
                                                                       2.36952
631743.73
           4175042.61
                          2.21933
                                             631773.29
                                                        4175020.32
                                                                       2.00258
631790.26
          4175011.84
                          1.92462
                                             631822.21
                                                        4174999.50
                                                                       1.80833
631837.20
          4174995.64
                          1.76721
                                             631852.19
                                                        4174991.77
                                                                       1.72526
631866.84
          4175007.53
                          1.80020
                                             631866.50
                                                        4175027.14
                                                                       1.92765
631866.16
           4175046.76
                          2.06449
                                             631865.83
                                                        4175066.37
                                                                       2.21150
631865.49 4175085.99
                          2.37478
                                             631865.15
                                                        4175105.60
                                                                       2.55762
631864.81
           4175125.22
                          2.76208
                                                        4175144.83
                                                                       2.99236
                                             631864.47
          4175164.45
631864.13
                          3.25378
                                             631863.80
                                                        4175184.06
                                                                       3.55153
631863.46 4175203.68
                          3.89171
                                             631863.12
                                                        4175223.29
                                                                       4.27911
          4175242.91
631862.78
                          4.71776
                                             631862.44 4175262.52
                                                                       5.20850
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*** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-

977GSBU)\Documents\HRA\Tracy C *** 12/18/23

*** AERMET - VERSION 18081 *** *** *** 11:24:12

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*** MODELOPTs: CONC ELEV RURAL ADJ U*

*** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE

**GROUP: VOL6** 

INCLUDING SOURCE(S): VOL6

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

X-COORD (	M) Y-COORD	(M) CONC	X-C	OORD (M)	Y-COORD (M)	CONC
 631862.10	4175282.14	5.74908	631861.77	4175301.75	6.33076	
631861.43	4175321.37	6.94023	631861.09	4175340.98	7.55465	
631860.75	4175360.60	8.14605	631860.41	4175380.21	8.68009	
631860.07	4175399.83	9.11889	631859.73	4175419.44	9.42703	
631859.40	4175439.06	9.57613	631859.06	4175458.67	9.54968	
631858.72	4175478.29	9.34582	631858.38	4175497.90	8.98022	
631858.04	4175517.52	8.48027	631857.70	4175537.13	7.88569	
631857.37	4175556.75	7.23766	631857.03	4175576.36	6.57640	
631856.69	4175595.98	5.93389	631856.35	4175615.59	5.33373	
631856.01	4175635.21	4.78944	631855.67	4175654.82	4.30834	
631855.33	4175674.44	3.88956	631855.00	4175694.05	3.52881	
631854.66	4175713.67	3.22030	631854.32	4175733.28	2.95634	
631853.98	4175752.90	2.72932	631853.64	4175772.51	2.53322	
631853.30	4175792.13	2.36206	631852.97	4175811.74	2.21162	
631852.63	4175831.36	2.07737	631852.29	4175850.97	1.95674	
631851.95	4175870.59	1.84665	631851.61	4175890.20	1.74626	
631851.27	4175909.82	1.65402	631850.94	4175929.43	1.56930	
631850.60	4175949.05	1.49100	631850.26	4175968.66	1.41853	
631830.54	4175988.13	1.37566	631811.15	4175987.98	1.40038	

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631791.77
             4175987.83
                            1.42475
                                               631772.39
                                                          4175987.67
                                                                          1.44759
  631753.00 4175987.52
                            1.47078
                                               631733.62
                                                           4175987.37
                                                                          1.49531
                                               631694.85
  631714.24
             4175987.22
                            1.52221
                                                           4175987.07
                                                                          1.55172
  631675.47
             4175986.92
                                               631656.09
                                                                          1.61990
                            1.58457
                                                           4175986.77
  631636.70
             4175986.62
                            1.65655
                                                           4175986.46
                                                                          1.69276
                                               631617.32
  631597.94
             4175986.31
                            1.72720
                                               631578.55
                                                           4175986.16
                                                                          1.75882
  631559.17
             4175986.01
                            1.78621
                                               631539.79
                                                           4175985.86
                                                                          1.80908
  631520.40
             4175985.71
                            1.82722
                                               631501.02
                                                           4175985.56
                                                                          1.84111
  631481.64
             4175985.40
                            1.85141
                                               631462.25
                                                           4175985.25
                                                                          1.85851
  631442.87
             4175985.10
                                               631423.49
                                                           4175984.95
                            1.86313
                                                                          1.86487
  631404.10 4175984.80
                            1.86302
                                               631384.72
                                                           4175984.65
                                                                          1.85654
  631365.34
             4175984.50
                            1.84449
                                               631345.95
                                                           4175984.35
                                                                          1.82627
  631326.57
             4175984.19
                            1.80238
                                               631307.19
                                                           4175984.04
                                                                          1.77332
  631287.80 4175983.89
                            1.74004
                                               631050.63
                                                           4175100.50
                                                                          0.54298
  631050.63
             4175200.50
                            0.70719
                                               631050.63
                                                           4175300.50
                                                                          0.89254
  631050.63
             4175400.50
                            1.05887
                                               631050.63
                                                           4175500.50
                                                                          1.17395
                                                           4175700.50
                                                                          1.49115
  631050.63
             4175600.50
                            1.43471
                                               631050.63
  631050.63
             4175800.50
                            1.45659
                                               631050.63
                                                           4175900.50
                                                                          1.32674
             4176000.50
                                               631050.63
                                                           4176100.50
                                                                          0.97364
  631050.63
                            1.14842
  631150.63
             4175100.50
                            0.70653
                                               631150.63
                                                           4175200.50
                                                                          0.99552
             4175300.50
  631150.63
                            1.39764
                                               631150.63
                                                           4175400.50
                                                                          1.99452
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*** AERMET - VERSION 18081 *** ***

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*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE

**GROUP: VOL6** 

INCLUDING SOURCE(S): VOL6

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

X-COORD (	M) Y-COO	RD (M) CO	ONC	X-CO	OORD (M)	Y-COORD (M)	CONC
 631150.63	4175500.50	2.22698	63	1150.63	4175600.50	0 2.39546	
631150.63	4175700.50	2.37549	63	1150.63	4175800.50	0 2.09041	
631150.63	4175900.50	1.71559	63	1150.63	4176000.50	0 1.37946	
631150.63	4176100.50	1.10997	63	1250.63	4175100.50	0.95914	
631250.63	4175200.50	1.45624	63	1250.63	4175300.50	0 2.62712	
631250.63	4175400.50	3.74305	63	1250.63	4175500.50	0 4.50653	
631250.63	4175600.50	4.64177	63	1250.63	4175700.50	3.89691	
631250.63	4175800.50	2.89244	63	1250.63	4175900.50	0 2.12340	
631250.63	4176000.50	1.59149	63	1250.63	4176100.50	0 1.22940	
631350.63	4175100.50	1.28927	63	1350.63	4175200.50	0 2.22399	
631350.63	4175300.50	4.80595	63	1350.63	4175400.50	0 10.07719	
631350.63	4175500.50	14.45671	63	31350.63	4175600.5	10.40334	
631350.63	4175700.50	6.05317	63	1350.63	4175800.50	0 3.67792	
631350.63	4175900.50	2.43997	63	1350.63	4176000.50	0 1.74164	
631350.63	4176100.50	1.30903	63	1450.63	4175100.50	0 1.63928	
631450.63	4175200.50	3.63869	63	1450.63	4175300.50	9.89047	
631450.63	4175400.50	0.00000	63	1450.63	4175500.50	0.00000	
631450.63	4175600.50	19.81336	63	31450.63	4175700.5	7.48234	

	631450.63	4175800.50	4.00573	631450.63	4175900.50	2.53490
	631450.63	4176000.50	1.77116	631450.63	4176100.50	1.31791
	631550.63	4175100.50	2.43332	631550.63	4175200.50	5.04180
	631550.63	4175300.50	15.67683	631550.63	4175400.50	0.00000
	631550.63	4175500.50	0.00000	631550.63	4175600.50	18.49904
	631550.63	4175700.50	6.83382	631550.63	4175800.50	3.75687
	631550.63	4175900.50	2.42370	631550.63	4176000.50	1.71699
	631550.63	4176100.50	1.28565	631650.63	4175100.50	2.89491
	631650.63	4175200.50	5.63058	631650.63	4175300.50	13.08495
	631650.63	4175400.50	33.29073	631650.63	4175500.50	32.56592
	631650.63	4175600.50	11.91897	631650.63	4175700.50	5.46072
	631650.63	4175800.50	3.23509	631650.63	4175900.50	2.15768
	631650.63	4176000.50	1.56661	631650.63	4176100.50	1.19689
	631750.63	4175100.50	2.91526	631750.63	4175200.50	4.86927
	631750.63	4175300.50	9.11883	631750.63	4175400.50	15.96443
	631750.63	4175500.50	15.42960	631750.63	4175600.50	8.13942
	631750.63	4175700.50	4.30088	631750.63	4175800.50	2.75787
	631750.63	4175900.50	1.92993	631750.63	4176000.50	1.41950
	631750.63	4176100.50	1.08796	631850.63	4175100.50	2.56633
	631850.63	4175200.50	3.93670	631850.63	4175300.50	6.51175
	631850.63	4175400.50	9.52097	631850.63	4175500.50	9.22976
	631850.63	4175600.50	5.89628	631850.63	4175700.50	3.45260
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*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE

**GROUP: VOL6** 

INCLUDING SOURCE(S): VOL6

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3

X-COORD (M) Y-COORD (M	f) CONC	X-CC	OORD (M) Y-Co	OORD (M)	CONC
631850.63 4175800.50 2	2.30591	631850.63	4175900.50	1.69894	
631850.63 4176000.50 1	.30583	631850.63	4176100.50	1.01725	
631950.63 4175100.50 2	2.18957	631950.63	4175200.50	3.23366	
631950.63 4175300.50 4	1.88040	631950.63	4175400.50	6.40060	
631950.63 4175500.50 6	5.22243	631950.63	4175600.50	4.46419	
631950.63 4175700.50 2	2.85545	631950.63	4175800.50	1.95205	
631950.63 4175900.50 1	.46769	631950.63	4176000.50	1.16276	
631950.63 4176100.50 0	0.94093	632050.63	4175100.50	1.89759	
632050.63 4175200.50 2	2.70948	632050.63	4175300.50	3.79053	
632050.63 4175400.50 4	1.64298	632050.63	4175500.50	4.52535	
632050.63 4175600.50 3	3.49919	632050.63	4175700.50	2.41301	
632050.63 4175800.50 1	.69117	632050.63	4175900.50	1.28147	
632050.63 4176000.50 1	.02981	632050.63	4176100.50	0.84910	
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977GSBU)\Documents\HRA\Tracy	C *** 12/18/23	•	• (		
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*** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE

GROUP: VOL7 **

***

INCLUDING SOURCE(S): VOL7

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

X-COORD (	M) Y-COORI	O(M) CON	IC X-CO	OORD (M)	Y-COORD (M	) CONC
622121.21	4174952.36	2.05627	632304.44		2 0.42119	
632192.15	4174956.32	2.73879	632420.62	4174334.32		
632418.97	4174930.32	1.70175	631187.00	4175727.00		
631166.00	4175729.00	0.89503	631121.00	4175719.00		
631035.00	4174830.00	0.25510	631106.00	4174825.00		
631937.00	4174528.00	0.52356	631322.00	4174522.00		
629800.63	4173850.44	0.02272	630150.63	4173850.44		
630500.63	4173850.44	0.03099	630850.63	4173850.44		
631200.63	4173850.44	0.05179	631550.63	4173850.44		
631900.63	4173850.44	0.08420	632250.63	4173850.44		
632600.63	4173850.44	0.17603	632950.63	4173850.44		
633300.63	4173850.44	0.16976	629800.63	4174200.44		
630150.63	4174200.44	0.04249	630500.63	4174200.44		
630850.63	4174200.44	0.07033	631200.63	4174200.44		
631550.63	4174200.44	0.13361	631900.63	4174200.44		
632250.63	4174200.44	0.27210	632600.63	4174200.44		
632950.63	4174200.44	0.27816	633300.63	4174200.44		
629800.63	4174550.44	0.05678	630150.63	4174550.44		
630500.63	4174550.44	0.09649	630850.63	4174550.44		
631200.63	4174550.44	0.18770	631550.63	4174550.44		
631900.63	4174550.44	0.53927	632250.63	4174550.44		
632600.63	4174550.44	0.56860	632950.63	4174550.44		
633300.63	4174550.44	0.41465	629800.63	4174900.44		
630150.63	4174900.44	0.07735	630500.63	4174900.44	0.13135	
630850.63	4174900.44	0.21962	631200.63	4174900.44	1 0.39907	
631550.63	4174900.44	1.05901	631900.63	4174900.44	2.88613	
632250.63	4174900.44	2.03113	632600.63	4174900.44	1.34266	
632950.63	4174900.44	0.94765	633300.63	4174900.44	1 0.69475	
629800.63	4175250.44	0.06539	630150.63	4175250.44	1 0.09902	
630500.63	4175250.44	0.16274	630850.63	4175250.44	0.28933	
631200.63	4175250.44	0.77155	631550.63	4175250.44	4 6.70512	
631900.63	4175250.44	39.59587	632250.63	4175250.4	4 5.58365	
632600.63	4175250.44	2.32559	632950.63	4175250.44	1.31859	
633300.63	4175250.44	0.86590	629800.63	4175600.44	1 0.08008	
630150.63	4175600.44	0.11265	630500.63	4175600.44	4 0.17900	
630850.63	4175600.44	0.35269	631200.63	4175600.44	1.02765	
631550.63	4175600.44	3.31990	631900.63	4175600.44		
632250.63	4175600.44	1.81745	632600.63	4175600.44	1.19985	
632950.63	4175600.44	0.84667	633300.63	4175600.44		
629800.63	4175950.44	0.09019	630150.63	4175950.44		
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*** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE

GROUP: VOL7 ***

INCLUDING SOURCE(S): VOL7

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

X-COORD (N	M) Y-COOR	D (M)	CONC	X-C	OORD (M)	Y-COORD (M)	CONC
630500.63	4175950.44	0.22453		630850.63	4175950.4	4 0.41727	
631200.63	4175950.44	0.77684		631550.63	4175950.4	4 1.13473	
631900.63	4175950.44	1.06436		632250.63	4175950.4	4 0.82404	
632600.63	4175950.44	0.59487		632950.63	4175950.4	4 0.45985	
633300.63	4175950.44	0.37850		629800.63	4176300.4	4 0.10482	
630150.63	4176300.44	0.15034		630500.63	4176300.4	4 0.23357	
630850.63	4176300.44	0.35581		631200.63	4176300.4	4 0.48567	
631550.63	4176300.44	0.57460		631900.63	4176300.4	4 0.54869	
632250.63	4176300.44	0.45375		632600.63	4176300.4	4 0.38596	
632950.63	4176300.44	0.31097		633300.63	4176300.4	4 0.25104	
629800.63	4176650.44	0.10724		630150.63	4176650.4	4 0.15293	
630500.63	4176650.44	0.20988		630850.63	4176650.4	4 0.26950	
631200.63	4176650.44	0.31857		631550.63	4176650.4	4 0.34951	
631900.63	4176650.44	0.34206		632250.63	4176650.4	4 0.29387	
632600.63	4176650.44	0.27145		632950.63	4176650.4	4 0.22780	
633300.63	4176650.44	0.19609		629800.63	4177000.4	4 0.10962	
630150.63	4177000.44	0.14101		630500.63	4177000.4	4 0.17305	
630850.63	4177000.44	0.20489		631200.63	4177000.4	4 0.23006	
631550.63	4177000.44	0.23911		631900.63	4177000.4	4 0.23542	
632250.63	4177000.44	0.21539		632600.63	4177000.4	4 0.18908	
632950.63	4177000.44	0.18039		633300.63	4177000.4	4 0.15353	
629800.63	4177350.44	0.10295		630150.63	4177350.4		
630500.63	4177350.44	0.14029		630850.63	4177350.4	4 0.15718	
631200.63	4177350.44	0.17527		631550.63	4177350.4	4 0.17419	
631900.63	4177350.44	0.17394		632250.63	4177350.4	4 0.16450	
632600.63	4177350.44	0.14261		632950.63	4177350.4	4 0.13901	
633300.63	4177350.44	0.12829		631670.70	4175493.59		
631669.80	4175641.41	3.26000		631665.32	4175796.3		
631417.17	4175826.85	1.33658		631417.17	4175673.6	6 1.90066	
631422.55	4175484.63	2.68176		631268.42	4175983.7		
631275.69	4175523.99	1.35055		631345.65	4175419.5		
	4175441.30	2.21902		631491.93			
	4175414.95	4.32900		631385.63	4175413.1		
631358.37	4175395.87	1.89142		631409.25	4175336.8		
631567.35	4175235.96	7.76196		631756.33	4175028.8		
631807.22	4175003.36	5.23913		631867.18	4174987.9		
631849.92	4175988.28	1.01393		631268.74	4175963.7		
631269.05	4175943.76	0.86756		631269.37	4175923.7		
631269.68	4175903.78	0.92443		631270.00	4175883.79		
631270.32	4175863.81	0.98401		631270.63	4175843.82		
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*** MODELOPTS: CONC ELEV RURAL ADJ U*

*** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE

GROUP: VOL7 **

INCLUDING SOURCE(S): VOL7

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

X-COORD (M) Y-COOF	RD (M) CONC	X-COORD (M)	Y-COORD (M)	CONC
631270.95 4175823.83	1.04513	631271.26 4175803.8	1 07626	
631271.58 4175783.85		631271.90 4175763.8		
631272.21 4175743.87		631272.53 4175723.8		
631272.85 4175703.89		631273.16 4175683.9		
631273.48 4175663.91		631273.79 4175643.9		
631274.11 4175623.94		631274.43 4175603.9		
631274.74 4175583.96		631275.06 4175563.9		
631275.37 4175543.98		631285.68 4175509.0		
631295.68 4175494.14		631305.67 4175479.2		
631315.67 4175464.28		631325.66 4175449.3		
631335.66 4175434.43		631358.67 4175426.7		
631371.70 4175434.03		631402.59 4175441.4		
631420.46 4175441.60		631438.33 4175441.7		
631456.19 4175441.91		631474.06 4175442.0		
631491.93 4175428.58		631474.21 4175414.6		
631456.50 4175414.35		631438.78 4175414.0		
631421.06 4175413.74		631403.35 4175413.4	4 2.44389	
631372.00 4175404.51	2.04105	631371.09 4175381.1	1 2.00426	
631383.81 4175366.34	2.12898	631396.53 4175351.5	8 2.26546	
631425.06 4175326.73	2.64158	631440.87 4175316.6	4 2.90770	
631456.68 4175306.56	3.20935	631472.49 4175296.4	7 3.56535	
631488.30 4175286.39	3.99311	631504.11 4175276.3	0 4.48807	
631519.92 4175266.22	5.08431	631535.73 4175256.1	3 5.82006	
631551.54 4175246.05	6.68897	631579.95 4175222.1	5 8.58504	
631592.55 4175208.34	9.37207	631605.15 4175194.5	3 10.16969	
631617.74 4175180.72		631630.34 4175166.9		
631642.94 4175153.10		631655.54 4175139.2		
631668.14 4175125.47		631680.74 4175111.0		
631693.34 4175097.85		631705.94 4175084.0		
631718.53 4175070.23		631731.13 4175056.4		
631743.73 4175042.61		631773.29 4175020.3		
631790.26 4175011.84		631822.21 4174999.5		
631837.20 4174995.64	5.20788	631852.19 4174991.7		
631866.84 4175007.53	5.92838	631866.50 4175027.1		
631866.16 4175046.76		631865.83 4175066.3		
631865.49 4175085.99		631865.15 4175105.0		
631864.81 4175125.22	19.57739	631864.47 4175144.8		
631864.13 4175164.45	32.31790	631863.80 4175184.0		
631863.46 4175203.68	49.72674	631863.12 4175223.2		
631862.78 4175242.91	62.01841	631862.44 4175262.5		
*** AERMOD - VERSION	19191 *** *** C:\U	Dsers\Smitn\Dropbox\My PC	(DESKIUP-	

***

11:24:12

*** MODELOPTs: CONC ELEV RURAL ADJ U*

*** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE

GROUP: VOL7 ***

INCLUDING SOURCE(S): VOL7

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

X-COORD (M) Y-COOR	D (M) CONC	X-COORD (M) Y-COORD (M)	CONC
631862.10 4175282.14	57 42061	631861.77 4175301.75 49.25993	
631861.43 4175321.37	39.71890	631861.09 4175340.98 30.77586	
631860.75 4175360.60	23.48210	631860.41 4175380.21 18.05044	
631860.07 4175399.83	14.18341	631859.73 4175419.44 11.46724	
631859.40 4175439.06	9.52365	631859.06 4175458.67 8.08567	
631858.72 4175478.29	6.98049	631858.38 4175497.90 6.10555	
631858.04 4175517.52	5.39342	631857.70 4175537.13 4.80478	
631857.37 4175556.75	4.31122	631857.03 4175576.36 3.89324	
631856.69 4175595.98	3.53607	631856.35 4175615.59 3.22848	
631856.01 4175635.21	2.96142	631855.67 4175654.82 2.72869	
631855.33 4175674.44	2.52416	631855.00 4175694.05 2.34311	
631854.66 4175713.67	2.18233	631854.32 4175733.28 2.03863	
631853.98 4175752.90	1.90942	631853.64 4175772.51 1.79308	
631853.30 4175792.13	1.68776	631852.97 4175811.74 1.59234	
631852.63 4175831.36	1.50512	631852.29 4175850.97 1.42530	
631851.95 4175870.59	1.35154	631851.61 4175890.20 1.28368	
631851.27 4175909.82	1.22101	631850.94 4175929.43 1.16331	
631850.60 4175949.05	1.11002	631850.26 4175968.66 1.06085	
631830.54 4175988.13	1.02446	631811.15 4175987.98 1.03283	
631791.77 4175987.83	1.03991	631772.39 4175987.67 1.04487	
631753.00 4175987.52	1.04847	631733.62 4175987.37 1.05110	
631714.24 4175987.22	1.05329	631694.85 4175987.07 1.05525	
631675.47 4175986.92	1.05748	631656.09 4175986.77 1.05967	
631636.70 4175986.62	1.06136	631617.32 4175986.46 1.06178	
631597.94 4175986.31	1.06033	631578.55 4175986.16 1.05659	
631559.17 4175986.01	1.05020	631539.79 4175985.86 1.04131	
631520.40 4175985.71	1.03019	631501.02 4175985.56 1.01739	
631481.64 4175985.40	1.00339	631462.25 4175985.25 0.98854	
631442.87 4175985.10	0.97324	631423.49 4175984.95 0.95756	
631404.10 4175984.80	0.94152	631384.72 4175984.65 0.92504	
631365.34 4175984.50	0.90802	631345.95 4175984.35 0.89035	
631326.57 4175984.19	0.87212	631307.19 4175984.04 0.85330	
631287.80 4175983.89	0.83399	631050.63 4175100.50 0.40964	
631050.63 4175200.50	0.45525	631050.63 4175300.50 0.48381	
631050.63 4175400.50	0.51525	631050.63 4175500.50 0.56063	
631050.63 4175600.50	0.62248	631050.63 4175700.50 0.63660 631050.63 4175900.50 0.62560	
631050.63 4175800.50	0.65095	631050.63 4175900.50 0.62569 631050.63 4176100.50 0.53191	
631050.63 4176000.50 631150.63 4175100.50	0.58311 0.53448	631150.63 4176100.50 0.53191	
631150.63 4175100.50	0.67867	631150.63 4175200.50 0.61617	
031130.03 41/3300.30	0.07007	051150.05 41/5400.50 0./519/	

*** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-

977GSBU)\Documents\HRA\Tracy C *** 12/18/23

*** AERMET - VERSION 18081 *** ***

*** 11:24:12

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*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE

GROUP: VOL7 **

INCLUDING SOURCE(S): VOL7

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

X-COORD (	M) Y-COORI	O(M) CONC	X-CO	OORD (M)	Y-COORD (M)	CONC
631150.63	4175500.50	0.80093	631150.63	4175600 50	0.87555	
631150.63	4175700.50	0.86744	631150.63	4175800.50		
631150.63	4175900.50	0.75771	631150.63	4176000.50		
631150.63	4176100.50	0.59974	631250.63	4175100.50		
631250.63	4175200.50	0.87117	631250.63	4175300.50		
631250.63	4175400.50	1.16046	631250.63	4175500.50		
631250.63	4175600.50	1.21791	631250.63	4175700.50	1.15180	
631250.63	4175800.50	1.03460	631250.63	4175900.50	0.90120	
631250.63	4176000.50	0.77604	631250.63	4176100.50	0.66752	
631350.63	4175100.50	1.05855	631350.63	4175200.50	1.33734	
631350.63	4175300.50	1.70212	631350.63	4175400.50	1.82201	
631350.63	4175500.50	1.86735	631350.63	4175600.50	1.74804	
631350.63	4175700.50	1.51732	631350.63	4175800.50		
631350.63	4175900.50	1.04620	631350.63	4176000.50		
631350.63	4176100.50	0.72801	631450.63	4175100.50		
631450.63	4175200.50	2.34097	631450.63	4175300.50		
631450.63	4175400.50	3.27733	631450.63	4175500.50		
631450.63	4175600.50	2.48296	631450.63	4175700.50		
631450.63	4175800.50	1.49239	631450.63	4175900.50		
631450.63	4176000.50	0.94939	631450.63	4176100.50		
631550.63	4175100.50	2.98895	631550.63	4175200.50		
631550.63	4175300.50	7.36533	631550.63	4175400.50		
631550.63	4175500.50	4.93922	631550.63	4175600.50		
631550.63	4175700.50	2.30329	631550.63	4175800.50		
631550.63	4175900.50	1.28117	631550.63	4176000.50		
631550.63	4176100.50	0.82250	631650.63	4175100.50		
631650.63	4175200.50	23.65093	631650.63			
631650.63	4175400.50	15.20444	631650.63	4175500.5		
631650.63	4175600.50	3.92235	631650.63	4175700.50		
631650.63	4175800.50	1.77047 1.02679	631650.63 631650.63	4175900.50 4176100.50		
631650.63 631750.63	4176000.50 4175100.50	13.69219		4175200.5		
631750.63	4175300.50	0.00000	631750.63	4175400.50		
631750.63	4175500.50	7.35858	631750.63	4175600.50		
631750.63	4175700.50	2.50871	631750.63	4175800.50		
631750.63	4175900.50	1.30584	631750.63	4176000.50		
631750.63	4176100.50	0.81619	631850.63	4175100.50		
631850.63	4175200.50	55.73509	631850.63	4175300.5		
631850.63	4175400.50	14.67835	631850.63	4175500.5		
021020.03	11,0100.00	1 / 0.55	051050.05	.1,5500.5	0.112/5	

631850.63 4175600.50 631850.63 4175700.50 3.49474 2.30081 *** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-977GSBU)\Documents\HRA\Tracy C *** 12/18/23 *** AERMET - VERSION 18081 *** *** 11:24:12 PAGE 54 *** MODELOPTs: CONC ELEV RURAL ADJ U* *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE **GROUP: VOL7** INCLUDING SOURCE(S): VOL7 *** DISCRETE CARTESIAN RECEPTOR POINTS *** ** CONC OF OTHER IN MICROGRAMS/M**3 ** X-COORD (M) Y-COORD (M) CONC X-COORD (M) Y-COORD (M) CONC 631850.63 4175800.50 1.64994 631850.63 4175900.50 1.25093 631850.63 4176000.50 0.98570 631850.63 4176100.50 0.79605 631950.63 4175100.50 11.00795 631950.63 4175200.50 22.35654 631950.63 4175300.50 631950.63 4175400.50 9.72759 21.55655 631950.63 4175500.50 4.82428 631950.63 4175600.50 2.99401 631950.63 4175700.50 631950.63 4175800.50 2.03776 1.48356 631950.63 4175900.50 1.14161 631950.63 4176000.50 0.91447 631950.63 4176100.50 632050.63 4175100.50 0.74880 7.68909 632050.63 4175300.50 632050.63 4175200.50 12.17694 11.76318 632050.63 4175400.50 6.88536 632050.63 4175500.50 3.83083 632050.63 4175600.50 2.52537 632050.63 4175700.50 1.82287 632050.63 4175900.50 632050.63 4175800.50 1.36460 1.05240 632050.63 4176000.50 632050.63 4176100.50 0.69187 0.84088 *** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-977GSBU)\Documents\HRA\Tracy C *** 12/18/23 *** AERMET - VERSION 18081 *** *** 11:24:12 PAGE 55 *** MODELOPTs: CONC ELEV RURAL ADJ U* *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: VOL1 INCLUDING SOURCE(S): VOL1 *** DISCRETE CARTESIAN RECEPTOR POINTS *** ** CONC OF OTHER IN MICROGRAMS/M**3 X-COORD (M) Y-COORD (M) CONC (YYMMDDHH) X-COORD (M) Y-COORD (M) **CONC** (YYMMDDHH)

92.50992 (05011520) 79.27878 (05020818) 632121.21 4174952.36 632304.44 4174354.52 632192.15 4174956.32 69.95475 (04022018) 632420.62 4175510.15 83.97985 (04022222) 632418.97 4175552.92 85.26765 (04022220) 631187.00 4175727.00 460.86049 (04011017) 631166.00 4175729.00 425.74906 (04011017) 631121.00 4175719.00 365.01260 (05022818) 631035.00 4174830.00 113.49795 (06121017) 631106.00 4174825.00 123.27809 (08022002) 631937.00 4174528.00 96.16659 (06020105) 631322.00 4174522.00 59.44543 (05010417) 629800.63 4173850.44 22.52892 (08121017) 630150.63 4173850.44 25.88485 (07122718) 630500.63 4173850.44 31.51890 (04022923) 630850.63 4173850.44 40.09616 (07111022)

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631200.63 4173850.44
                            26.99984 (04030818)
                                                                               52.26885 (04122823)
                                                       631550.63 4173850.44
    631900.63 4173850.44
                            38.62920 (05112422)
                                                       632250.63 4173850.44
                                                                               56.46735 (06020105)
    632600.63 4173850.44
                            57.98589 (05020818)
                                                       632950.63 4173850.44
                                                                               50.08931 (05011520)
    633300.63 4173850.44
                            38.52954 (04022018)
                                                       629800.63 4174200.44
                                                                               34.46618 (06041020)
                            40.14917 (08121017)
                                                                               57.29810 (05012117)
    630150.63 4174200.44
                                                       630500.63 4174200.44
    630850.63 4174200.44
                            57.05958 (06102817)
                                                       631200.63 4174200.44
                                                                               48.60442 (05050803)
                            70.85061 (04122823)
                                                                               86.13995 (07011417)
    631550.63 4174200.44
                                                       631900.63 4174200.44
    632250.63 4174200.44
                            68.47059 (04122822)
                                                       632600.63 4174200.44
                                                                               66.41260 (05011521)
                            54.47557 (04022018)
                                                                               33.17557 (07012702)
    632950.63 4174200.44
                                                       633300.63 4174200.44
                            49.53130 (06121421)
                                                                               62.91276 (04012317)
    629800.63 4174550.44
                                                       630150.63 4174550.44
    630500.63 4174550.44
                            85.87510 (06011109)
                                                       630850.63 4174550.44
                                                                               85.15558 (05042119)
    631200.63 4174550.44
                           104.51606 (06121420)
                                                       631550.63 4174550.44
                                                                               106.61035 (07012317)
    631900.63 4174550.44
                            92.41144 (06020105)
                                                                               73.50154 (05020818)
                                                       632250.63 4174550.44
    632600.63 4174550.44
                            73.50386 (04022018)
                                                       632950.63 4174550.44
                                                                               39.99862 (07012702)
                            31.07222 (06011617)
                                                                               63.47432 (06120217)
    633300.63 4174550.44
                                                       629800.63 4174900.44
    630150.63 4174900.44
                            66.88518 (04101819)
                                                       630500.63 4174900.44
                                                                               90.33636 (04012317)
                           143.89920 (05012117)
                                                                               145.95179 (08022002)
    630850.63 4174900.44
                                                       631200.63 4174900.44
    631550.63 4174900.44
                           160.33954 (07012317)
                                                       631900.63 4174900.44
                                                                               111.19978 (04122822)
    632250.63 4174900.44
                            84.75606 (04022018)
                                                       632600.63 4174900.44
                                                                               52.74360 (06011617)
                            40.20774 (04021501)
    632950.63 4174900.44
                                                       633300.63 4174900.44
                                                                               35.07314 (04022221)
                            90.67775 (06020109)
    629800.63 4175250.44
                                                                               87.97028 (06121217)
                                                       630150.63 4175250.44
                           127.21741 (07020624)
                                                                               144.39129 (06011022)
    630500.63 4175250.44
                                                       630850.63 4175250.44
                           208.80731 (06121017)
                                                       631550.63 4175250.44
    631200.63 4175250.44
                                                                               212.46602 (07011417)
    631900.63 4175250.44
                           123.80496 (05122304)
                                                       632250.63 4175250.44
                                                                               94.16679 (06011617)
                            64.20254 (04022221)
    632600.63 4175250.44
                                                       632950.63 4175250.44
                                                                               43.85864 (04022222)
                                                       629800.63 4175600.44
    633300.63 4175250.44
                            42.87245 (06100508)
                                                                               74.98447 (08012221)
                            91.77847 (08012221)
                                                                              200.73941 (06020109)
    630150.63 4175600.44
                                                       630500.63 4175600.44
    630850.63 4175600.44
                           238.20694 (06121217)
                                                       631200.63 4175600.44
                                                                               423.58039 (07011517)
                           363.71804 (05020818)
                                                                               183.70611 (04022221)
    631550.63 4175600.44
                                                       631900.63 4175600.44
                           106.12923 (04022220)
                                                                               71.74928 (06100508)
    632250.63 4175600.44
                                                       632600.63 4175600.44
    632950.63 4175600.44
                            50.91719 (08011020)
                                                       633300.63 4175600.44
                                                                               39.05742 (05122420)
    629800.63 4175950.44
                                                       630150.63 4175950.44
                                                                              100.20661 (05122618)
                            79.30863 (05122618)
  *** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-
977GSBU)\Documents\HRA\Tracy C ***
                                       12/18/23
*** AERMET - VERSION 18081 *** ***
                                                                                  11:24:12
                                                              PAGE 56
*** MODELOPTs: CONC ELEV RURAL ADJ U*
               *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE
GROUP: VOL1
                 INCLUDING SOURCE(S):
                                          VOL1
                       *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                     ** CONC OF OTHER IN MICROGRAMS/M**3
   X-COORD (M) Y-COORD (M)
                                  CONC
                                           (YYMMDDHH)
                                                                X-COORD (M) Y-COORD (M)
                                                                                                CONC
(YYMMDDHH)
    630500.63 4175950.44
                           121.63776 (07020701)
                                                       630850.63 4175950.44
                                                                               178.29775 (06011024)
    631200.63 4175950.44
                           505.17198 (07120622)
                                                       631550.63 4175950.44
                                                                               664.56909 (08021808)
    631900.63 4175950.44
                           207.86508 (06011620)
                                                       632250.63 4175950.44
                                                                               112.57323 (07011318)
    632600.63 4175950.44
                            74.72021 (06121322)
                                                       632950.63 4175950.44
                                                                               51.84140 (06121322)
    633300.63 4175950.44
                            37.06233 (07011518)
                                                       629800.63 4176300.44
                                                                               58.46976 (05030324)
    630150.63 4176300.44
                            78.13500 (07120621)
                                                       630500.63 4176300.44
                                                                               88.34366 (05021923)
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630850.63 4176300.44
                           140.50906 (07120403)
                                                                             245.58000 (07122907)
                                                      631200.63 4176300.44
    631550.63 4176300.44
                           245.90223 (08121403)
                                                      631900.63 4176300.44
                                                                             169.12759 (08021908)
                           97.55772 (08121019)
    632250.63 4176300.44
                                                      632600.63 4176300.44
                                                                             67.35780 (07010308)
    632950.63 4176300.44
                           50.85566 (05010918)
                                                      633300.63 4176300.44
                                                                             38.77458 (06020208)
                           53.26238 (05021923)
                                                                             54.56888 (06022523)
    629800.63 4176650.44
                                                      630150.63 4176650.44
    630500.63 4176650.44
                           74.11566 (05022704)
                                                      630850.63 4176650.44
                                                                             96.07197 (05022705)
                           142.56702 (08011009)
                                                                             133.20350 (06021702)
    631200.63 4176650.44
                                                      631550.63 4176650.44
    631900.63 4176650.44
                           107.94378 (04121823)
                                                      632250.63 4176650.44
                                                                              88.02410 (08021908)
                           63.07055 (04120904)
                                                      632950.63 4176650.44
                                                                             52.18798 (08031008)
    632600.63 4176650.44
                           36.29824 (06012821)
    633300.63 4176650.44
                                                      629800.63 4177000.44
                                                                             35.86524 (06022523)
    630150.63 4177000.44
                           46.51164 (05022704)
                                                      630500.63 4177000.44
                                                                             56.93621 (04020618)
                           78.61231 (05122622)
                                                                             84.65988 (07122906)
    630850.63 4177000.44
                                                      631200.63 4177000.44
                           86.09170 (07121904)
                                                                             75.27145 (08121602)
    631550.63 4177000.44
                                                      631900.63 4177000.44
    632250.63 4177000.44
                           63.84545 (07010324)
                                                                             55.01709 (08021908)
                                                      632600.63 4177000.44
                           44.13622 (08021808)
                                                                             36.72389 (08031008)
    632950.63 4177000.44
                                                      633300.63 4177000.44
    629800.63 4177350.44
                           32.91474 (04120901)
                                                      630150.63 4177350.44
                                                                             38.76455 (06021721)
                           47.07547 (05011001)
                                                                             56.82579 (06020123)
    630500.63 4177350.44
                                                      630850.63 4177350.44
                           58.07618 (06012804)
                                                                             61.66139 (05022220)
    631200.63 4177350.44
                                                      631550.63 4177350.44
                           77.27611 (07091007)
    631900.63 4177350.44
                                                      632250.63 4177350.44
                                                                             50.00172 (07121907)
                           45.18941 (07022408)
                                                                             38.09113 (08021908)
    632600.63 4177350.44
                                                      632950.63 4177350.44
                                                                             232.51688 (05021802)
    633300.63 4177350.44
                           31.65487 (04011022)
                                                      631670.70 4175493.59
                           347.90333 (06011617)
                                                      631665.32 4175796.39
                                                                             387.76876 (08011001)
    631669.80 4175641.41
                                                                            694.70431 (07012317)
    631417.17 4175826.85
                           0.00000 (00000000)
                                                     631417.17 4175673.66
                           330.67978 (07012317)
                                                                             631.41804 (04120903)
    631422.55 4175484.63
                                                      631268.42 4175983.74
                           362.18148 (06121017)
    631275.69 4175523.99
                                                      631345.65 4175419.50
                                                                             300.79784 (06121420)
    631384.72 4175441.30
                           262.77743 (05010417)
                                                      631491.93 4175442.21
                                                                             259.00100 (07011417)
                           239.25323 (07012317)
    631491.93 4175414.95
                                                      631385.63 4175413.14
                                                                             286.64196 (05021805)
    631358.37 4175395.87
                           278.86759 (05122422)
                                                      631409.25 4175336.81
                                                                             255.74782 (05021805)
                           217.19299 (07011417)
                                                      631756.33 4175028.80
                                                                             132.60485 (06020105)
    631567.35 4175235.96
    631807.22 4175003.36
                           119.24126 (05021803)
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  977GSBU)\Documents\HRA\Tracy C ***
                                      12/18/23
*** AERMET - VERSION 18081 *** ***
                                                                                11:24:12
                                                            PAGE 57
*** MODELOPTS: CONC ELEV RURAL ADJ U*
               *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE
GROUP: VOL1
                 INCLUDING SOURCE(S): VOL1
                       *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                    ** CONC OF OTHER IN MICROGRAMS/M**3
   X-COORD (M) Y-COORD (M)
                                  CONC
                                          (YYMMDDHH)
                                                               X-COORD (M) Y-COORD (M)
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  *** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-
977GSBU\\Documents\\HRA\\Tracy C *** 12/18/23
*** AERMET - VERSION 18081 *** ***
                                                                                 11:24:12
                                                            PAGE 58
*** MODELOPTs: CONC ELEV RURAL ADJ U*
               *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE
GROUP: VOL1
                 INCLUDING SOURCE(S): VOL1
                       *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                    ** CONC OF OTHER IN MICROGRAMS/M**3
                                                          X-COORD (M) Y-COORD (M)
   X-COORD (M) Y-COORD (M) CONC (YYMMDDHH)
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  *** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-
977GSBU)\Documents\HRA\Tracy C ***
                                       12/18/23
*** AERMET - VERSION 18081 *** ***
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                                                              PAGE 59
*** MODELOPTs: CONC ELEV RURAL ADJ U*
               *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE
GROUP: VOL1
                 INCLUDING SOURCE(S): VOL1
                       *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                     ** CONC OF OTHER IN MICROGRAMS/M**3
   X-COORD (M) Y-COORD (M)
                                  CONC
                                           (YYMMDDHH) X-COORD (M) Y-COORD (M)
                                                                                                CONC
(YYMMDDHH)
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  *** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-
977GSBU)\Documents\HRA\Tracy C ***
                                       12/18/23
*** AERMET - VERSION 18081 *** ***
                                                                                  11:24:12
                                                              PAGE 60
*** MODELOPTs: CONC ELEV RURAL ADJ U*
               *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE
GROUP: VOL1
                 INCLUDING SOURCE(S):
                                           VOL1
                       *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                     ** CONC OF OTHER IN MICROGRAMS/M**3
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(YYMMDDHH)

X-COORD (M) Y-COORD (M)

**CONC** 

CONC

X-COORD (M) Y-COORD (M)

633300.63 4174550.44

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  *** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-
977GSBU)\Documents\HRA\Tracy C ***
                                       12/18/23
*** AERMET - VERSION 18081 *** ***
                                                                                 11:24:12
                                                             PAGE 61
*** MODELOPTs: CONC ELEV RURAL ADJ U*
               *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE
GROUP: VOL2
                 INCLUDING SOURCE(S): VOL2
                       *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                     ** CONC OF OTHER IN MICROGRAMS/M**3
                                                                              **
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                                         (YYMMDDHH)
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  *** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-
977GSBU)\Documents\HRA\Tracy C ***
                                        12/18/23
*** AERMET - VERSION 18081 *** ***
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                                                               PAGE 62
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*** MODELOPTs: CONC ELEV RURAL ADJ U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE

GROUP: VOL2

INCLUDING SOURCE(S): VOL2

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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CONC
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  X-COORD (M) Y-COORD (M)
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  *** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-
977GSBU)\Documents\HRA\Tracy C ***
                                       12/18/23
*** AERMET - VERSION 18081 *** ***
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                                                              PAGE 63
*** MODELOPTs: CONC ELEV RURAL ADJ U*
               *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE
GROUP: VOL2
                 INCLUDING SOURCE(S):
                                           VOL<sub>2</sub>
                       *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                     ** CONC OF OTHER IN MICROGRAMS/M**3
   X-COORD (M) Y-COORD (M)
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                                           (YYMMDDHH)
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    631862.78 4175242.91
                           169.04596 (07011417)
                                                       631862.44 4175262.52
                                                                               177.96245 (07011417)
  *** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-
977GSBU)\Documents\HRA\Tracy C ***
                                       12/18/23
*** AERMET - VERSION 18081 *** ***
                                                                                  11:24:12
                                                              PAGE 64
*** MODELOPTs: CONC ELEV RURAL ADJ U*
               *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE
GROUP: VOL2
                 INCLUDING SOURCE(S): VOL2
                       *** DISCRETE CARTESIAN RECEPTOR POINTS ***
```

```
X-COORD (M) Y-COORD (M)
                                   CONC
                                           (YYMMDDHH)
                                                                 X-COORD (M) Y-COORD (M)
                                                                                                 CONC
(YYMMDDHH)
    631862.10 4175282.14
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    631860.75 4175360.60
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                                                                               427.85498 (04022018)
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  *** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-
977GSBU)\Documents\HRA\Tracy C ***
                                       12/18/23
*** AERMET - VERSION 18081 *** ***
                                                                                 11:24:12
                                                             PAGE 65
*** MODELOPTs: CONC ELEV RURAL ADJ U*
               *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE
GROUP: VOL2
                 INCLUDING SOURCE(S): VOL2
                       *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                     ** CONC OF OTHER IN MICROGRAMS/M**3
                                                                X-COORD (M) Y-COORD (M)
   X-COORD (M) Y-COORD (M)
                                  CONC
                                         (YYMMDDHH)
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(YYMMDDHH)
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  *** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-
977GSBU)\Documents\HRA\Tracy C ***
                                       12/18/23
*** AERMET - VERSION 18081 *** ***
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                                                              PAGE 66
*** MODELOPTS: CONC ELEV RURAL ADJ U*
               *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE
GROUP: VOL2
                 INCLUDING SOURCE(S):
                                          VOL2
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*** DISCRETE CARTESIAN RECEPTOR POINTS ***

```
X-COORD (M) Y-COORD (M)
                                  CONC
                                                                X-COORD (M) Y-COORD (M)
                                           (YYMMDDHH)
                                                                                                CONC
(YYMMDDHH)
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                           680.70163 (07010217)
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*** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-

977GSBU)\Documents\HRA\Tracy C *** 12/18/23

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*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE

GROUP: VOL3 ***

INCLUDING SOURCE(S): VOL3 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 *

X-COORD (M) Y-COORD (M) **CONC** (YYMMDDHH) X-COORD (M) Y-COORD (M) **CONC** (YYMMDDHH) 86.81316 (07012702) 86.43385 (05011521) 632121.21 4174952.36 632304.44 4174354.52 632192.15 4174956.32 84.90470 (07012702) 632420.62 4175510.15 86.66968 (08011020) 632418.97 4175552.92 88.20089 (07012218) 631187.00 4175727.00 494.83100 (07120622) 631166.00 4175729.00 442.14774 (07120621) 631121.00 4175719.00 387.07529 (06011024) 631035.00 4174830.00 158.54144 (06011021) 631106.00 4174825.00 144.99951 (06121017) 97.98496 (04022318) 69.27865 (05010417) 631937.00 4174528.00 631322.00 4174522.00 20.57155 (08121017) 629800.63 4173850.44 20.98038 (06041020) 630150.63 4173850.44 30.57170 (05030118) 630850.63 4173850.44 47.07599 (07111022) 630500.63 4173850.44 30.89741 (05050803) 57.76278 (06040124) 631200.63 4173850.44 631550.63 4173850.44 631900.63 4173850.44 44.84247 (08071405) 632250.63 4173850.44 54.09040 (06051924) 632600.63 4173850.44 51.00620 (05011521) 632950.63 4173850.44 44.39247 (04022018) 35.41734 (05021018) 629800.63 4174200.44 37.80147 (06120517) 633300.63 4173850.44 75.46815 (06011109) 630150.63 4174200.44 38.75507 (04012317) 630500.63 4174200.44 72.81272 (06102817) 631200.63 4174200.44 56.13494 (05050803) 630850.63 4174200.44 89.07932 (07012317) 96.36526 (04022218) 631550.63 4174200.44 631900.63 4174200.44 83.33827 (05020818) 63.83312 (05011520) 632250.63 4174200.44 632600.63 4174200.44 632950.63 4174200.44 50.80343 (05021018) 633300.63 4174200.44 30.16174 (06011617) 629800.63 4174550.44 52.64621 (07020624) 630150.63 4174550.44 71.45621 (06121421) 630500.63 4174550.44 76.81698 (04121302) 630850.63 4174550.44 111.40320 (06011021) 631200.63 4174550.44 126.51781 (06121420) 631550.63 4174550.44 131.47866 (07012317) 631900.63 4174550.44 105.84688 (04022318) 95.76825 (05011520) 632250.63 4174550.44 632600.63 4174550.44 67.63650 (05021018) 632950.63 4174550.44 42.48546 (06011617) 633300.63 4174550.44 32.91368 (06012018) 629800.63 4174900.44 61.86577 (05112423) 630150.63 4174900.44 83.02686 (06120217) 630500.63 4174900.44 120.45691 (06121421) 630850.63 4174900.44 152.69488 (07121217) 631200.63 4174900.44 194.19485 (08022002) 182.18633 (07020623) 631550.63 4174900.44 631900.63 4174900.44 101.18272 (06020318) 632250.63 4174900.44 77.60590 (07012702) 632600.63 4174900.44 57.68817 (04021501) 46.80487 (04022221) 632950.63 4174900.44 633300.63 4174900.44 32.46650 (05021801) 79.52045 (04022207) 199.96985 (06020109) 629800.63 4175250.44 630150.63 4175250.44 630500.63 4175250.44 174.43419 (06020109) 630850.63 4175250.44 175.90999 (06121421) 631200.63 4175250.44 341.60648 (05012117) 631550.63 4175250.44 254.04800 (07011417) 631900.63 4175250.44 165.27806 (06011617) 632250.63 4175250.44 99.88570 (04022221) 632600.63 4175250.44 68.93437 (04022222) 632950.63 4175250.44 64.52012 (06100508) 633300.63 4175250.44 51.27203 (06100508) 629800.63 4175600.44 87.25207 (04121304) 630150.63 4175600.44 116.99701 (04121304) 630500.63 4175600.44 165.52602 (04121304) 573.51031 (04022207) 630850.63 4175600.44 254.74361 (04121304) 631200.63 4175600.44 631550.63 4175600.44 678.79125 (07010217) 631900.63 4175600.44 202.95648 (07012218) 632250.63 4175600.44 109.39928 (07021102) 632600.63 4175600.44 71.58473 (07021102)

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*** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-

977GSBU)\Documents\HRA\Tracy C *** 12/18/23

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*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE

GROUP: VOL3 ***

INCLUDING SOURCE(S): VOL3 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3

X-COORD (M) Y-COORD (M) X-COORD (M) Y-COORD (M) CONC (YYMMDDHH) **CONC** (YYMMDDHH) 116.24957 (07120621) 630500.63 4175950.44 630850.63 4175950.44 159.28854 (07013018) 325.62196 (05011001) 351.26164 (06011005) 631200.63 4175950.44 631550.63 4175950.44 188.73662 (07121419) 631900.63 4175950.44 632250.63 4175950.44 105.96847 (05121218) 71.57820 (06020208) 52.81988 (06020205) 632600.63 4175950.44 632950.63 4175950.44 40.34206 (04121118) 633300.63 4175950.44 629800.63 4176300.44 62.32318 (07120622) 67.43767 (05021923) 630150.63 4176300.44 630500.63 4176300.44 77.87123 (06022523) 630850.63 4176300.44 114.45929 (06021721) 631200.63 4176300.44 176.74082 (08011009) 169.04731 (08011408) 136.69491 (07022408) 631550.63 4176300.44 631900.63 4176300.44 632600.63 4176300.44 632250.63 4176300.44 95.90688 (08021808) 64.17312 (08031008) 632950.63 4176300.44 47.55795 (05122323) 37.73346 (05121218) 633300.63 4176300.44 39.76492 (07013018) 50.44207 (07120403) 629800.63 4176650.44 630150.63 4176650.44 630500.63 4176650.44 60.44865 (06021721) 90.38393 (05011001) 630850.63 4176650.44 100.00915 (08021905) 101.32651 (05121701) 631200.63 4176650.44 631550.63 4176650.44 631900.63 4176650.44 87.82154 (08021923) 632250.63 4176650.44 70.65224 (07022408) 632600.63 4176650.44 56.07462 (08121003) 632950.63 4176650.44 45.11498 (08120919) 633300.63 4176650.44 44.94365 (08031008) 629800.63 4177000.44 34.80970 (05021308) 630150.63 4177000.44 40.42552 (05122923) 630500.63 4177000.44 49.36514 (06011018) 630850.63 4177000.44 65.50927 (06021720) 631200.63 4177000.44 67.60438 (07122906) 631550.63 4177000.44 71.38723 (07121904) 64.30321 (07091007) 631900.63 4177000.44 632250.63 4177000.44 54.61482 (04121823) 632600.63 4177000.44 46.67719 (04121902) 632950.63 4177000.44 38.68121 (08121003) 633300.63 4177000.44 33.38978 (08021808) 629800.63 4177350.44 30.06445 (05122923) 630150.63 4177350.44 34.85435 (07121206) 630500.63 4177350.44 44.15455 (07012805) 630850.63 4177350.44 48.97570 (07021207) 50.57676 (06012804) 51.99937 (07020803) 631200.63 4177350.44 631550.63 4177350.44 43.66151 (08021923) 631900.63 4177350.44 81.42551 (07091007) 632250.63 4177350.44 38.45713 (08022124) 33.58231 (07021107) 632600.63 4177350.44 632950.63 4177350.44 633300.63 4177350.44 29.14243 (08122821) 342.04036 (06120617) 631670.70 4175493.59 631669.80 4175641.41 388.26494 (08011019) 631665.32 4175796.39 356.77337 (08121019) 631417.17 4175826.85 686.27424 (05122402) 631417.17 4175673.66 0.00000 (00000000) 631422.55 4175484.63 724.24232 (07012317) 631268.42 4175983.74 343.59874 (06020123) 631275.69 4175523.99 610.37606 (05012117) 631345.65 4175419.50 484.40016 (06121420) 631384.72 4175441.30 520.33534 (05122422) 631491.93 4175442.21 464.85901 (04022318) 631491.93 4175414.95 443.43949 (07011417) 631385.63 4175413.14 455.12857 (05010417) 631358.37 4175395.87 442.02419 (05122422) 631409.25 4175336.81 375.44842 (07012317) 631567.35 4175235.96 238.57950 (05010319) 631756.33 4175028.80 136.42110 (05122303) 631807.22 4175003.36 123.09242 (05122303) 631867.18 4174987.91 116.06024 (06020318)

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631849.92 4175988.28
                          216.21690 (08021808)
                                                      631268.74 4175963.75
                                                                             364.37192 (06021720)
    631269.05 4175943.76
                          387.64953 (07122907)
                                                      631269.37 4175923.77
                                                                             410.60052 (07122907)
    631269.68 4175903.78
                          438.60392 (06122519)
                                                      631270.00 4175883.79
                                                                             469.48315 (07021218)
    631270.32 4175863.81
                          501.37676 (07021218)
                                                      631270.63 4175843.82
                                                                             523.76203 (08122718)
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977GSBU)\Documents\HRA\Tracy C ***
                                      12/18/23
*** AERMET - VERSION 18081 *** ***
                                                                                11:24:12
                                                            PAGE 69
*** MODELOPTs: CONC ELEV RURAL ADJ U*
               *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE
GROUP: VOL3
                 INCLUDING SOURCE(S): VOL3
                       *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                    ** CONC OF OTHER IN MICROGRAMS/M**3
   X-COORD (M) Y-COORD (M) CONC (YYMMDDHH)
                                                          X-COORD (M) Y-COORD (M)
                                                                                              CONC
(YYMMDDHH)
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    631270.95 4175823.83
                          638.13071 (04120903)
                                                                             693.92364 (04021521)
    631271.58 4175783.85
                                                      631271.90 4175763.86
    631272.21 4175743.87
                          749.70303 (04021520)
                                                      631272.53 4175723.88
                                                                             799.28730 (06122121)
                          843.31771 (07120622)
    631272.85 4175703.89
                                                      631273.16 4175683.90
                                                                             879.76524 (06011024)
    631273.48 4175663.91
                          922.99770 (04121304)
                                                      631273.79 4175643.92
                                                                             939.88051 (04121304)
                          920.86691 (04022207)
    631274.11 4175623.94
                                                      631274.43 4175603.95
                                                                             873.97813 (06121217)
                                                                             706.69182 (04011017)
    631274.74 4175583.96
                          803.86316 (04011017)
                                                      631275.06 4175563.97
                          635.72144 (06121421)
                                                                             684.10450 (05012117)
    631275.37 4175543.98
                                                      631285.68 4175509.06
    631295.68 4175494.14
                          702.71894 (05012117)
                                                      631305.67 4175479.21
                                                                             670.08811 (05012117)
    631315.67 4175464.28
                          593.37883 (05012117)
                                                      631325.66 4175449.35
                                                                             526.44383 (06121017)
                          513.48797 (08022002)
                                                                             502.47543 (06121420)
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                                                      631358.67 4175426.77
    631371.70 4175434.03
                          516.18123 (05122422)
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                                                                             579.75771 (07012317)
    631420.46 4175441.60
                          598.04556 (07012317)
                                                      631438.33 4175441.76
                                                                             561.98471 (07012317)
    631456.19 4175441.91
                          552.66525 (07011417)
                                                      631474.06 4175442.06
                                                                             524.60481 (07011417)
    631491.93 4175428.58
                          452.94913 (07011417)
                                                      631474.21 4175414.65
                                                                             482.63963 (07011417)
    631456.50 4175414.35
                          487.91031 (07011417)
                                                      631438.78 4175414.05
                                                                             510.09549 (07012317)
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                           133.92875 (05122304)
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                                                                               136.29342 (05122304)
    631864.81 4175125.22
                           138.87639 (04022018)
                                                       631864.47 4175144.83
                                                                               143.99796 (04022018)
    631864.13 4175164.45
                           146.54413 (04022018)
                                                       631863.80 4175184.06
                                                                               146.20591 (04022018)
    631863.46 4175203.68
                                                       631863.12 4175223.29
                                                                               158.98265 (07012702)
                           151.58187 (07012702)
    631862.78 4175242.91
                           161.84563 (07012702)
                                                       631862.44 4175262.52
                                                                               167.29862 (06011617)
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977GSBU)\Documents\HRA\Tracy C ***
                                       12/18/23
*** AERMET - VERSION 18081 *** ***
                                                                                 11:24:12
                                                             PAGE 70
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*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE

GROUP: VOL3

INCLUDING SOURCE(S): VOL3

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3

X-COORD (M) Y-COORD (M) CONC X-COORD (M) Y-COORD (M) (YYMMDDHH) **CONC** (YYMMDDHH) 631862.10 4175282.14 182.64142 (06011617) 193.41010 (06011617) 631861.77 4175301.75 198.30606 (06011617) 196.45448 (06011617) 631861.43 4175321.37 631861.09 4175340.98 631860.75 4175360.60 187.68317 (06011617) 191.40042 (06012018) 631860.41 4175380.21 197.61303 (06012018) 200.73936 (04022221) 631860.07 4175399.83 631859.73 4175419.44 631859.40 4175439.06 202.82419 (04022221) 631859.06 4175458.67 202.30047 (06022418) 208.81403 (07010217) 631858.38 4175497.90 631858.72 4175478.29 220.92359 (07010217) 221.54461 (07010217) 631858.04 4175517.52 631857.70 4175537.13 218.66203 (04010924) 631857.37 4175556.75 221.30449 (05011606) 631857.03 4175576.36 222.81767 (06121504) 631856.69 4175595.98 223.85763 (05122420) 631856.35 4175615.59 225.21592 (05020819) 631856.01 4175635.21 225.37221 (07021102) 631855.67 4175654.82 226.09327 (06011619) 631855.33 4175674.44 225.87362 (07011518) 631855.00 4175694.05 234.45629 (06121322) 631854.66 4175713.67 232.16403 (07021221) 631854.32 4175733.28 231.31307 (04121118) 631853.98 4175752.90 229.58047 (04021505) 631853.64 4175772.51 226.46536 (06020208) 631853.30 4175792.13 224.05945 (05010918) 631852.97 4175811.74 220.97175 (05121218) 631852.63 4175831.36 217.71552 (07010308) 631852.29 4175850.97 214.28630 (06012821) 631851.95 4175870.59 210.46742 (04121105) 631851.61 4175890.20 206.46597 (08121019) 631851.27 4175909.82 208.71748 (07121419) 631850.94 4175929.43 212.97804 (07121419) 631850.60 4175949.05 208.56631 (08120919) 631850.26 4175968.66 216.03391 (08021808) 631830.54 4175988.13 222.34620 (08021808) 631811.15 4175987.98 223.95462 (08021808) 243.60615 (08021908) 631791.77 4175987.83 223.28112 (08021908) 631772.39 4175987.67 631753.00 4175987.52 258.91499 (08021908) 631733.62 4175987.37 267.43892 (08021908) 631714.24 4175987.22 267.91951 (08021908) 631694.85 4175987.07 262.68184 (07022408) 631675.47 4175986.92 288.86455 (07022408) 631656.09 4175986.77 304.90606 (07022408) 631636.70 4175986.62 307.95124 (07022408) 631617.32 4175986.46 296.54092 (07022408) 631597.94 4175986.31 301.12827 (04121823) 631578.55 4175986.16 310.33606 (07121907) 631559.17 4175986.01 318.92596 (06011005) 631539.79 4175985.86 328.02092 (08121602) 631520.40 4175985.71 333.71842 (08121603) 631501.02 4175985.56 343.61521 (08121403) 631481.64 4175985.40 350.40536 (08121604) 631462.25 4175985.25 355.92947 (06021702) 631442.87 4175985.10 360.79429 (05121701) 631423.49 4175984.95 364.87012 (05022220) 631404.10 4175984.80 368.55181 (08122707) 631384.72 4175984.65 369.22671 (05121504) 631365.34 4175984.50 361.79465 (08122907) 631345.95 4175984.35 357.52588 (06012804) 631326.57 4175984.19 391.31142 (08011009) 631307.19 4175984.04 403.81448 (08011009)

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382.80238 (08011009)
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                           245.21483 (07121217)
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                                                                              232.18280 (06011022)
    631050.63 4175200.50
    631050.63 4175400.50
                           294.27772 (06121421)
                                                      631050.63 4175500.50
                                                                              372.67991 (06121217)
    631050.63 4175600.50
                           327.16771 (08012221)
                                                      631050.63 4175700.50
                                                                              359.66874 (06011024)
    631050.63 4175800.50
                           284.52128 (07120622)
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                                                                              253.88550 (04021520)
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                           219.89407 (05122923)
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                                                                              186.26328 (05022703)
    631150.63 4175100.50
                           243.00753 (06011021)
                                                      631150.63 4175200.50
                                                                              324.08829 (05012117)
    631150.63 4175300.50
                           331.58802 (07011517)
                                                      631150.63 4175400.50
                                                                              317.27155 (06011022)
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977GSBU)\Documents\HRA\Tracy C ***
                                      12/18/23
*** AERMET - VERSION 18081 *** ***
                                                                                11:24:12
                                                             PAGE 71
*** MODELOPTs: CONC ELEV RURAL ADJ_U*
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*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE

GROUP: VOL3

INCLUDING SOURCE(S): VOL3

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

X-COORD (YYMMDDHH)	(M) Y-COORD )	(M) CO	ONC	(YYM	MDDHH)	X-COORD (M)	Y-COORD	(M) CONC
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631150.63	4175700.50	446.29434		/	631150.63		390.62639	· /
631150.63	4175900.50	316.75289		,	631150.63		255.34988	` /
631150.63	4176100.50	234.34347		,	631250.63		260.22028	(
631250.63	4175200.50	275.05987		/	631250.63		338.80021	` /
631250.63	4175400.50	461.51247		,	631250.63		479.17161	` /
631250.63	4175600.50	737.86118		,	631250.63	3 4175700.50	717.75061	\
631250.63	4175800.50	547.89198		/	631250.63	3 4175900.50	430.58729	` /
631250.63	4176000.50	325.31652	(0602)	21720)	631250.63	3 4176100.50	266.32025	(08011009)
631350.63	4175100.50	236.10369	(0512	2422)	631350.63	3 4175200.50	285.01474	(05122422)
631350.63	4175300.50	327.50929	(0512)	22422)	631350.63	3 4175400.50	452.37119	(06121420)
631350.63	4175500.50	721.35240	(0802)	22002)	631350.63	4175600.50	0.00000 (0	00000000)
631350.63	4175700.50	0.00000 (	00000	0000)	631350.63	4175800.50	879.96011 (0	08011009)
631350.63	4175900.50	515.52266	(0801	1009)	631350.63	4176000.50	344.47676	(06012804)
631350.63	4176100.50	264.20541	(0512)	21702)	631450.63	4175100.50	274.32147	(07012317)
631450.63	4175200.50	270.35357	(0701	2317)	631450.63	4175300.50	348.69605	(07012317)
631450.63	4175400.50	455.89882	(0701)	2317)	631450.63	4175500.50	721.01388	(07011417)
631450.63	4175600.50	0.00000 (			631450.63	4175700.50	0.00000 (00	
631450.63	4175800.50	739.36658		,	631450.63		470.20828	` /
631450.63	4176000.50	345.02519		,	631450.63		266.86827	` /
631550.63	4175100.50	238.31049		,	631550.63		238.99123	\
631550.63	4175300.50	279.27809		,	631550.63		363.92229	(
631550.63	4175500.50	502.81499		,	631550.63		678.89742	(
631550.63	4175700.50	663.26383		/	631550.63		612.60799	` /
631550.63	4175900.50	411.29968	(0702)	22408)	631550.63	3 4176000.50	313.03668	(08121602)
631550.63	4176100.50	246.82074	(0812)	21403)	631650.63	3 4175100.50	165.90488	(05021803)
631650.63	4175200.50	197.70403	(0512)	22303)	631650.63	3 4175300.50	243.08249	(05021802)
631650.63	4175400.50	298.14433		,	631650.63	4175500.50	374.51743	` /
631650.63	4175600.50	410.33145		,	631650.63	4175700.50	421.68662	(
631650.63	4175800.50	386.81681	(0712)	21419)	631650.63	3 4175900.50	369.01852	(08021908)

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294.87576 (07022408)
                                                                            222.58799 (08121001)
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                                                     631650.63 4176100.50
    631750.63 4175100.50
                          147.13822 (05122303)
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   631750.63 4175300.50
                          203.95815 (04022018)
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                          272.22145 (05021801)
                                                     631750.63 4175600.50
                                                                            295.38225 (08011020)
   631750.63 4175700.50
                          305.02727 (07021221)
                                                     631750.63 4175800.50
                                                                            282.18799 (05122323)
    631750.63 4175900.50
                          286.63196 (08021808)
                                                     631750.63 4176000.50
                                                                            254.98479 (08021908)
                          214.93361 (07022408)
   631750.63 4176100.50
                                                     631850.63 4175100.50
                                                                            138.45476 (05122304)
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                          150.97426 (04022018)
                                                     631850.63 4175300.50
                                                                            194.09570 (06011617)
   631850.63 4175400.50
                          201.64993 (06012018)
                                                     631850.63 4175500.50
                                                                            225.34676 (07010217)
    631850.63 4175600.50
                          227.53981 (05122420)
                                                     631850.63 4175700.50
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977GSBU)\Documents\HRA\Tracy C *** 12/18/23
*** AERMET - VERSION 18081 *** ***
                                                                              11:24:12
                                                           PAGE 72
*** MODELOPTs: CONC ELEV RURAL ADJ U*
               *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE
GROUP: VOL3
                 INCLUDING SOURCE(S): VOL3
                      *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                    ** CONC OF OTHER IN MICROGRAMS/M**3
                                                                           **
  X-COORD (M) Y-COORD (M)
                                 CONC
                                         (YYMMDDHH)
                                                              X-COORD (M) Y-COORD (M)
                                                                                            CONC
(YYMMDDHH)
                          223.99519 (06012919)
    631850.63 4175800.50
                                                     631850.63 4175900.50
                                                                            204.67497 (04121104)
                                                                            186.69619 (08021908)
    631850.63 4176000.50
                          211.80817 (08021808)
                                                     631850.63 4176100.50
    631950.63 4175100.50
                          118.60708 (07122717)
                                                     631950.63 4175200.50
                                                                            141.12225 (06011617)
                          151.62411 (06011617)
   631950.63 4175300.50
                                                     631950.63 4175400.50
                                                                            164.55107 (04022221)
    631950.63 4175500.50
                          177.35764 (04022220)
                                                     631950.63 4175600.50
                                                                            182.79814 (07012218)
                          189.93816 (06121322)
                                                     631950.63 4175800.50
                                                                            182.27819 (05011419)
    631950.63 4175700.50
                          170.18161 (06122321)
                                                     631950.63 4176000.50
                                                                            167.76890 (07121419)
    631950.63 4175900.50
    631950.63 4176100.50
                          152.82615 (08021808)
                                                     632050.63 4175100.50
                                                                            106.56351 (07012702)
                          131.43088 (06011617)
                                                     632050.63 4175300.50
                                                                            134.17285 (08022005)
   632050.63 4175200.50
    632050.63 4175400.50
                          135.78500 (04022222)
                                                     632050.63 4175500.50
                                                                            145.90633 (05011606)
                          151.40337 (05020819)
                                                                            155.81131 (06121322)
    632050.63 4175600.50
                                                     632050.63 4175700.50
   632050.63 4175800.50
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                                                     632050.63 4176100.50
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                          134.18635 (08121019)
  *** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-
977GSBU)\Documents\HRA\Tracy C ***
                                      12/18/23
*** AERMET - VERSION 18081 *** ***
                                                                              11:24:12
                                                           PAGE 73
*** MODELOPTs: CONC ELEV RURAL ADJ U*
               *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE
GROUP: VOL4
                 INCLUDING SOURCE(S): VOL4
                      *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                    ** CONC OF OTHER IN MICROGRAMS/M**3
  X-COORD (M) Y-COORD (M)
                                 CONC
                                         (YYMMDDHH)
                                                              X-COORD (M) Y-COORD (M)
                                                                                            CONC
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  *** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-
977GSBU)\Documents\HRA\Tracy C ***
                                        12/18/23
*** AERMET - VERSION 18081 *** ***
                                                                                   11:24:12
                                                              PAGE 74
*** MODELOPTs: CONC ELEV RURAL ADJ U*
                *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE
GROUP: VOL4
                 INCLUDING SOURCE(S):
                                          VOL4
                       *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                     ** CONC OF OTHER IN MICROGRAMS/M**3
                                                                               **
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(YYMMDDHH)
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GROUP: VOL4

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  *** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-
977GSBU)\Documents\HRA\Tracv C ***
                                        12/18/23
*** AERMET - VERSION 18081 *** ***
                                                                                    11:24:12
                                                               PAGE 75
*** MODELOPTs: CONC ELEV RURAL ADJ U*
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*** DISCRETE CARTESIAN RECEPTOR POINTS ***

VOL4

INCLUDING SOURCE(S):

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE

```
X-COORD (M) Y-COORD (M)
                                   CONC
                                                                 X-COORD (M) Y-COORD (M)
                                                                                                 CONC
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(YYMMDDHH)
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  *** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-
977GSBU)\Documents\HRA\Tracy C ***
                                       12/18/23
*** AERMET - VERSION 18081 *** ***
                                                                                  11:24:12
                                                              PAGE 76
*** MODELOPTs: CONC ELEV RURAL ADJ U*
                *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE
GROUP: VOL4
                 INCLUDING SOURCE(S):
                                           VOL4
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## ** CONC OF OTHER IN MICROGRAMS/M**3

X-COORD ( (YYMMDDHH)	M) Y-COORI	O (M) CO	ONC	(YYMMDDH	IH)	X-COORD (M)	Y-COORD	(M) CONC
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	4175674.44	664.72260		,		4175694.05		(06012918)
	4175713.67	639.88951		,	631854.32			(04011021)
	4175752.90	651.68531		,		4175772.51		(08021808)
	4175792.30	612.46889		,	631852.97			(08021908)
	4175792.13	541.55314			631852.29			(07022408)
	4175870.59			,	631851.61			,
	4175909.82	492.42635		,	631850.94			(07022408)
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	4175949.05	355.19886			631850.26			(06011005)
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	4175987.83	346.32012	`	,	631772.39			(08011408)
	4175987.52	356.69025		,		4175987.37		(07121904)
	4175987.22	365.29004		,	631694.85			(07122818)
	4175986.92	360.51774		,	631656.09			(06012804)
	4175986.62	369.57406		,	631617.32			(08011009)
	4175986.31	397.25379		,		4175986.16		(08011009)
	4175986.01	341.93301		,	631539.79			(07121205)
	4175985.71	327.69872		,	631501.02			(05011001)
	4175985.40	296.92942			631462.25			(07122917)
	4175985.10	262.89445			631423.49			(05021421)
	4175984.80	246.16381		,		4175984.65		(05122923)
	4175984.50	231.60191		,		4175984.35		(04120901)
	4175984.19	217.39816		,		4175984.04		(07012618)
	4175983.89	201.32967		,		4175100.50		(06121421)
	4175200.50	166.68481		,		4175300.50		(06120217)
	4175400.50	287.74472		,		4175500.50		(04022207)
631050.63	4175600.50	217.31441		,	631050.63	4175700.50		(05122618)
631050.63	4175800.50	193.50818	(0601)	1024)	631050.63	4175900.50	138.46171	(07020707)
631050.63	4176000.50	128.27795	(0502)	1923)	631050.63	4176100.50	125.42918	(06022523)
631150.63	4175100.50	141.06331	(0601)	1022)	631150.63	4175200.50	200.64981	(06121421)
	4175300.50	221.88553				4175400.50		(06020109)
*** AERMOI	O - VERSION	19191 ***	*** C	:\Users\Smith\I	Oropbox\My	PC (DESKTOP	<b>)_</b>	
977GSBU)\Documents\HRA\Tracy C *** 12/18/23								
*** AERMET -	VERSION 18	8081 *** **	*			***	11:24:1	2
					PA	GE 77		
*** MODELOPTs: CONC ELEV RURAL ADJ_U*								

 $file: ///C/...U)/Documents/HRA/Tracy\%20Costco\%20DepotV4\%20-\%20CONSTR/Tracy\%20Costco\%20V3/Tracy\%20Costco\%20V3. ADO.txt [12/18/2023 \ 11:26:07 \ AM]$ 

GROUP: VOL4 ***

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE

INCLUDING SOURCE(S): VOL4 ,

## *** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3

```
X-COORD (M) Y-COORD (M)
                                                                 X-COORD (M) Y-COORD (M)
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                                           (YYMMDDHH)
                                                                                                 CONC
(YYMMDDHH)
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                                                        631150.63 4176000.50
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                                                        631250.63 4175100.50
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                                                        631250.63 4175500.50
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                            219.74115 (07120621)
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                            187.24991 (07120403)
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                                                        631250.63 4176100.50
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                            229.75160 (07011517)
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    631550.63 4175300.50
                            351.08000 (06011021)
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                            719.20961 (07120622)
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                                                                                502.24101 (04022018)
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                            677.84080 (07010217)
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  *** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-
977GSBU)\Documents\HRA\Tracy C ***
                                        12/18/23
*** AERMET - VERSION 18081 *** ***
                                                                                   11:24:12
                                                              PAGE 78
*** MODELOPTS: CONC ELEV RURAL ADJ U*
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*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE

GROUP: VOL4

INCLUDING SOURCE(S): VOL4

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3

X-COORD (M) Y-COORD (M) **CONC** X-COORD (M) Y-COORD (M) (YYMMDDHH) **CONC** (YYMMDDHH) 631850.63 4175800.50 615.59114 (08021908) 631850.63 4175900.50 414.30296 (07022408) 313.65778 (08121602) 245.29712 (08121403) 631850.63 4176000.50 631850.63 4176100.50 631950.63 4175100.50 166.10264 (05021803) 631950.63 4175200.50 198.30481 (05122303) 243.03715 (05021802) 631950.63 4175400.50 298.11480 (04022018) 631950.63 4175300.50 410.18257 (08011001) 631950.63 4175500.50 373.97652 (06011617) 631950.63 4175600.50 421.62213 (06121320) 387.43864 (07121419) 631950.63 4175700.50 631950.63 4175800.50 294.87576 (07022408) 631950.63 4175900.50 370.65031 (08021908) 631950.63 4176000.50 631950.63 4176100.50 220.76141 (08121001) 632050.63 4175100.50 146.94030 (05122303) 632050.63 4175200.50 177.60172 (07020622) 632050.63 4175300.50 204.51285 (04022018) 271.59730 (06011617) 632050.63 4175500.50 272.52274 (05021801) 632050.63 4175400.50 296.20576 (08011020) 632050.63 4175600.50 632050.63 4175700.50 306.14424 (07021221) 632050.63 4175800.50 283.00192 (05122323) 632050.63 4175900.50 287.45304 (08021808) 632050.63 4176000.50 255.17344 (08021908) 632050.63 4176100.50 214.75885 (07022408) *** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-977GSBU)\Documents\HRA\Tracy C *** 12/18/23 *** AERMET - VERSION 18081 *** *** 11:24:12 PAGE 79

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE

GROUP: VOL5

INCLUDING SOURCE(S): VOL5

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3

X-COORD (YYMMDDHH)	(M) Y-COORD )	(M) CO	ONC	(YYMMDE	DHH)	X-COORD (M)	Y-COORD (M	) CONC
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632418.97	4175552.92	140.64390	(0702)	21221)	631187.00	4175727.00	171.42030 (07	(013018)
631166.00	4175729.00	166.37646	(0502)	21923)	631121.00	4175719.00	153.69890 (07	(120404)
631035.00	4174830.00	133.78086	(0612	21421)	631106.00	4174825.00	136.62677 (04	012317)
631937.00	4174528.00	151.47965	(0412	22824)	631322.00	4174522.00	88.38367 (040	022923)
629800.63	4173850.44	26.14397	(0404	1824)	630150.63	4173850.44	27.03558 (060	41020)
630500.63	4173850.44	31.23817	(0812	1017)	630850.63	4173850.44	44.96646 (041	01605)
631200.63	4173850.44	34.43300	(0710	0818)	631550.63	4173850.44	50.93816 (051	22422)
631900.63	4173850.44	50.58139	(0410)	2623)	632250.63	4173850.44	69.69836 (040	22218)
632600.63	4173850.44	74.54891	(0412)	2822)	632950.63	4173850.44	65.71063 (050	11520)
633300.63	4173850.44	46.55520	(0612)	2122)	629800.63	4174200.44	34.13624 (050	72102)
630150.63	4174200.44	41.60504	(0512)	2619)	630500.63	4174200.44	60.26908 (040	12317)
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                            68.95307 (06122122)
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                           136.34824 (05012117)
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                                                       632250.63 4174550.44
    632600.63 4174550.44
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    632250.63 4174900.44
    632950.63 4174900.44
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  *** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-
977GSBU)\Documents\HRA\Tracy C ***
                                       12/18/23
*** AERMET - VERSION 18081 *** ***
                                                                                 11:24:12
                                                             PAGE 80
*** MODELOPTs: CONC ELEV RURAL ADJ U*
               *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE
GROUP: VOL5
                 INCLUDING SOURCE(S): VOL5
                       *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                    ** CONC OF OTHER IN MICROGRAMS/M**3
   X-COORD (M) Y-COORD (M)
                                  CONC
                                           (YYMMDDHH)
                                                                X-COORD (M) Y-COORD (M)
                                                                                                CONC
(YYMMDDHH)
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977GSBU)\Documents\HRA\Tracy C ***
                                       12/18/23
*** AERMET - VERSION 18081 *** ***
                                                                                  11:24:12
                                                             PAGE 81
*** MODELOPTs: CONC ELEV RURAL ADJ U*
               *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE
GROUP: VOL5
                 INCLUDING SOURCE(S): VOL5
                       *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                     ** CONC OF OTHER IN MICROGRAMS/M**3
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*** AERMET - VERSION 18081 *** ***
                                                                               11:24:12
                                                            PAGE 82
*** MODELOPTs: CONC ELEV RURAL ADJ U*
               *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE
GROUP: VOL5
                 INCLUDING SOURCE(S): VOL5
                       *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                    ** CONC OF OTHER IN MICROGRAMS/M**3
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977GSBU)\Documents\HRA\Tracy C ***
                                       12/18/23
*** AERMET - VERSION 18081 *** ***
                                                                                 11:24:12
                                                             PAGE 83
*** MODELOPTs: CONC ELEV RURAL ADJ U*
               *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE
GROUP: VOL5
                 INCLUDING SOURCE(S):
                                          VOL5
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                                                      631750.63 4175400.50
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    631750.63 4175500.50
                           0.00000 (00000000)
                                                     631750.63 4175600.50
                          475.77587 (05021302)
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    631750.63 4175700.50
                                                      631750.63 4175800.50
                          266.58778 (07121904)
                                                                             215.59138 (07121904)
    631750.63 4175900.50
                                                      631750.63 4176000.50
    631750.63 4176100.50
                          177.26208 (07020803)
                                                      631850.63 4175100.50
                                                                             280.03398 (05010319)
    631850.63 4175200.50
                          363.79994 (05020818)
                                                      631850.63 4175300.50
                                                                             503.04822 (04022018)
    631850.63 4175400.50
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                                                      631850.63 4175500.50
                                                                             664.58798 (05122401)
    631850.63 4175600.50
                          618.97418 (08021908)
                                                      631850.63 4175700.50
                                                                             416.33290 (07022408)
*** AERMET - VERSION 18081 *** ***
                                                                                11:24:12
                                                            PAGE 84
*** MODELOPTS: CONC ELEV RURAL ADJ U*
               *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE
GROUP: VOL5
                 INCLUDING SOURCE(S): VOL5
                       *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                    ** CONC OF OTHER IN MICROGRAMS/M**3
   X-COORD (M) Y-COORD (M)
                                 CONC
                                          (YYMMDDHH)
                                                              X-COORD (M) Y-COORD (M)
                                                                                              CONC
(YYMMDDHH)
    631850.63 4175800.50
                          314.73019 (08121602)
                                                      631850.63 4175900.50
                                                                             249.13632 (08121403)
    631850.63 4176000.50
                          204.83756 (07020606)
                                                      631850.63 4176100.50
                                                                             169.88073 (08011408)
    631950.63 4175100.50
                          242.25230 (05021802)
                                                      631950.63 4175200.50
                                                                             299.09929 (04022018)
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                                                                             410.33145 (08011001)
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    631950.63 4175700.50
                          372.59069 (08021908)
                                                      631950.63 4175800.50
                                                                             296.06571 (07022408)
    631950.63 4175900.50
                          224.65102 (08121001)
                                                      631950.63 4176000.50
                                                                             189.36476 (06121919)
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  *** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-
977GSBU)\Documents\HRA\Tracy C ***
                                      12/18/23
*** AERMET - VERSION 18081 *** ***
                                                                               11:24:12
                                                            PAGE 85
*** MODELOPTs: CONC ELEV RURAL ADJ U*
               *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE
GROUP: VOL6
                 INCLUDING SOURCE(S):
                                          VOL6
                      *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                    ** CONC OF OTHER IN MICROGRAMS/M**3
   X-COORD (M) Y-COORD (M)
                                 CONC
                                          (YYMMDDHH)
                                                              X-COORD (M) Y-COORD (M)
                                                                                             CONC
                                                                             104.21945 (05011521)
    632121.21 4174952.36
                          125.19569 (06011617)
                                                      632304.44 4174354.52
    632192.15 4174956.32
                          122.54509 (06011617)
                                                                             101.03975 (06121322)
                                                      632420.62 4175510.15
    632418.97 4175552.92
                          103.41040 (06121322)
                                                      631187.00 4175727.00
                                                                             266.45627 (05022704)
    631166.00 4175729.00
                          251.86515 (07012618)
                                                      631121.00 4175719.00
                                                                             233.46740 (06022523)
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(YYMMDDHH)
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                            182.99493 (07121217)
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                                                                                 196.31508 (07011517)
                            125.30269 (04022318)
                                                                                 99.67546 (05021806)
    631937.00 4174528.00
                                                         631322.00 4174522.00
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                            25.78750 (06120517)
                                                                                 20.28349 (08121017)
                                                        630150.63 4173850.44
    630500.63 4173850.44
                            36.61803 (07122718)
                                                        630850.63 4173850.44
                                                                                 54.30010 (06102817)
    631200.63 4173850.44
                            48.97772 (05021806)
                                                        631550.63 4173850.44
                                                                                 64.38080 (05021805)
    631900.63 4173850.44
                            47.26468 (05112422)
                                                        632250.63 4173850.44
                                                                                 61.66544 (04022318)
    632600.63 4173850.44
                            66.65414 (05011521)
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                                                                                 59.24739 (04022018)
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                                                        630500.63 4174200.44
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    630850.63 4174200.44
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                                                        631900.63 4174200.44
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                            51.02035 (07012702)
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                                                        633300.63 4174200.44
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                                                                                 72.08245 (07020624)
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                                                        630150.63 4174550.44
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                            95.06909 (06121421)
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    631900.63 4174550.44
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    630150.63 4175600.44
                            77.28282 (07042002)
                                                       630500.63 4175600.44
                                                                               122.21040 (06011024)
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                           207.70293 (06011024)
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                           747.62320 (06013004)
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                                                       632600.63 4175600.44
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                                                       633300.63 4175600.44
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977GSBU)\Documents\HRA\Tracy C ***
                                       12/18/23
*** AERMET - VERSION 18081 *** ***
                                                                                  11:24:12
                                                              PAGE 86
*** MODELOPTs: CONC ELEV RURAL ADJ U*
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*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE

GROUP: VOL6 ***

INCLUDING SOURCE(S): VOL6

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M) Y-COORD (M) X-COORD (M) Y-COORD (M) CONC (YYMMDDHH) **CONC** (YYMMDDHH) 630850.63 4175950.44 120.74844 (07120403) 630500.63 4175950.44 93.93849 (05021923) 203.06774 (05011001) 238.63081 (07121904) 631200.63 4175950.44 631550.63 4175950.44 187.24829 (07022408) 114.43001 (04120904) 631900.63 4175950.44 632250.63 4175950.44 632600.63 4175950.44 73.70545 (06122321) 632950.63 4175950.44 54.67359 (05121218) 633300.63 4175950.44 41.80388 (05011419) 629800.63 4176300.44 49.41336 (05021923) 630150.63 4176300.44 49.47996 (07013018) 630500.63 4176300.44 65.29656 (07012618) 630850.63 4176300.44 85.74214 (05022703) 631200.63 4176300.44 120.57922 (06020123) 631550.63 4176300.44 128.63603 (06011704) 631900.63 4176300.44 109.90500 (06121919) 632250.63 4176300.44 85.92031 (04121902) 632600.63 4176300.44 67.27369 (08021808) 632950.63 4176300.44 51.18637 (08031008) 633300.63 4176300.44 40.25374 (08031008) 629800.63 4176650.44 34.43296 (06022523) 630150.63 4176650.44 43.36245 (05022704) 630500.63 4176650.44 52.34739 (06021721) 630850.63 4176650.44 72.12077 (07012805) 631200.63 4176650.44 85.40257 (08011009) 631550.63 4176650.44 83.34694 (08122707) 631900.63 4176650.44 93.55714 (07091007) 632250.63 4176650.44 64.35902 (04121823) 53.73630 (07021107) 43.53681 (08121003) 632600.63 4176650.44 632950.63 4176650.44 36.76525 (04120904) 633300.63 4176650.44 629800.63 4177000.44 31.12407 (05022704) 35.53450 (06021721) 630150.63 4177000.44 630500.63 4177000.44 41.63328 (06011018) 54.26602 (07122907) 57.26379 (08021905) 630850.63 4177000.44 631200.63 4177000.44 631550.63 4177000.44 60.43483 (06122002) 631900.63 4177000.44 87.92075 (07091007) 632250.63 4177000.44 50.35888 (06121919) 43.72133 (08022124) 632600.63 4177000.44 632950.63 4177000.44 37.44384 (07021107) 633300.63 4177000.44 32.23500 (08121003) 629800.63 4177350.44 24.98431 (06021721) 630150.63 4177350.44 30.37449 (05022705) 630500.63 4177350.44 38.12394 (07012805) 630850.63 4177350.44 42.28378 (06020123) 631200.63 4177350.44 43.59738 (07122906) 631550.63 4177350.44 45.62901 (06122002) 631900.63 4177350.44 56.85009 (07091007) 632250.63 4177350.44 38.82417 (08121603) 632600.63 4177350.44 36.00294 (04102908) 632950.63 4177350.44 31.94394 (04021405) 633300.63 4177350.44 28.27935 (08120923) 631670.70 4175493.59 602.32020 (05012018)

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                           174.36448 (07013019)
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                                                                             213.31703 (07122907)
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                                                      631269.37 4175923.77
                                                                             230.76216 (05122622)
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                                                                             249.01476 (07012805)
                           240.37192 (06122519)
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  *** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-
977GSBU)\Documents\HRA\Tracy C ***
                                      12/18/23
*** AERMET - VERSION 18081 *** ***
                                                                                11:24:12
                                                            PAGE 87
*** MODELOPTs: CONC ELEV RURAL ADJ U*
               *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE
GROUP: VOL6
                 INCLUDING SOURCE(S):
                                         VOL6
                       *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                    ** CONC OF OTHER IN MICROGRAMS/M**3
                                                                            **
   X-COORD (M) Y-COORD (M)
                                                               X-COORD (M) Y-COORD (M)
                                  CONC
                                          (YYMMDDHH)
                                                                                              CONC
(YYMMDDHH)
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                                                                             280.28970 (05011001)
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                           281.35888 (07122917)
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                           290.21503 (05021803)
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                           191.78088 (06020318)
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                                                                               259.51184 (06011617)
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                           261.12093 (06011617)
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                                                                               251.40739 (06011617)
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  *** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-
977GSBU)\Documents\HRA\Tracy C ***
                                       12/18/23
*** AERMET - VERSION 18081 *** ***
                                                                                  11:24:12
                                                             PAGE 88
*** MODELOPTs: CONC ELEV RURAL ADJ U*
               *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE
GROUP: VOL6
                 INCLUDING SOURCE(S): VOL6
                       *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                     ** CONC OF OTHER IN MICROGRAMS/M**3
                                                                              **
                                                                X-COORD (M) Y-COORD (M)
   X-COORD (M) Y-COORD (M)
                                  CONC
                                         (YYMMDDHH)
                                                                                                CONC
(YYMMDDHH)
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                                                                               275.99894 (08021808)
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                           258.13696 (08021908)
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                           230.11553 (08021908)
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                           223.90652 (08122707)
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                           224.52219 (05121504)
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  *** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-
977GSBU)\Documents\HRA\Tracy C ***
                                       12/18/23
*** AERMET - VERSION 18081 *** ***
                                                                                 11:24:12
                                                             PAGE 89
*** MODELOPTs: CONC ELEV RURAL ADJ U*
               *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE
GROUP: VOL6
                 INCLUDING SOURCE(S): VOL6
                       *** DISCRETE CARTESIAN RECEPTOR POINTS ***
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CONC
                                           (YYMMDDHH)
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  X-COORD (M) Y-COORD (M)
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  *** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-
977GSBU)\Documents\HRA\Tracy C ***
                                       12/18/23
*** AERMET - VERSION 18081 *** ***
                                                                                 11:24:12
                                                             PAGE 90
*** MODELOPTs: CONC ELEV RURAL ADJ U*
               *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE
GROUP: VOL6
                 INCLUDING SOURCE(S):
                                           VOL6
                       *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                    ** CONC OF OTHER IN MICROGRAMS/M**3
   X-COORD (M) Y-COORD (M)
                                  CONC
                                                                X-COORD (M) Y-COORD (M)
                                                                                               CONC
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(YYMMDDHH)
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  *** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-
977GSBU)\Documents\HRA\Tracy C ***
                                       12/18/23
*** AERMET - VERSION 18081 *** ***
                                                                                 11:24:12
                                                             PAGE 91
*** MODELOPTs: CONC ELEV RURAL ADJ U*
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file:///C/...U)/Documents/HRA/Tracy%20Costco%20DepotV4%20-%20CONSTR/Tracy%20Costco%20V3/Tracy%20Costco%20V3.ADO.txt[12/18/2023 11:26:07 AM]

## *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE

**

GROUP: VOL7 ***

INCLUDING SOURCE(S): VOL7 ,

## *** DISCRETE CARTESIAN RECEPTOR POINTS ***

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X-COORD (M) Y-COORD (M)
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                            52.55205 (04122902)
                                                       629800.63 4175600.44
                            78.44714 (06011024)
                                                                               86.08601 (05030324)
    630150.63 4175600.44
                                                       630500.63 4175600.44
    630850.63 4175600.44
                           135.67203 (07120622)
                                                       631200.63 4175600.44
                                                                               156.30265 (06022523)
    631550.63 4175600.44
                           311.06746 (05011001)
                                                       631900.63 4175600.44
                                                                               312.71177 (08121602)
    632250.63 4175600.44
                           190.56165 (08021808)
                                                       632600.63 4175600.44
                                                                               104.33812 (05122323)
    632950.63 4175600.44
                            70.72715 (05010918)
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                                                                               52.44156 (04021505)
    629800.63 4175950.44
                            49.05433 (07120621)
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                                       12/18/23
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                                                             PAGE 92
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*** MODELOPTs: CONC ELEV RURAL ADJ U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE

**

GROUP: VOL7

INCLUDING SOURCE(S): VOL7

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3

X-COORD (M) Y-COORD (M) **CONC** (YYMMDDHH) X-COORD (M) Y-COORD (M) **CONC** (YYMMDDHH) 630500.63 4175950.44 74.37227 (06122121) 630850.63 4175950.44 79.61186 (07120403) 108.13188 (04020618) 170.48705 (08011009) 631200.63 4175950.44 631550.63 4175950.44 631900.63 4175950.44 155.84358 (08011408) 632250.63 4175950.44 122.19675 (08022124) 632600.63 4175950.44 88.96093 (04011022) 632950.63 4175950.44 65.81299 (07121419) 39.36114 (05021923) 633300.63 4175950.44 47.34648 (06122321) 629800.63 4176300.44 630150.63 4176300.44 47.82509 (06022523) 630500.63 4176300.44 48.68635 (05021308) 630850.63 4176300.44 61.61322 (06021721) 631200.63 4176300.44 85.69865 (07012805) 95.84175 (08021905) 94.58788 (05121701) 631550.63 4176300.44 631900.63 4176300.44 632250.63 4176300.44 84.77684 (06121919) 632600.63 4176300.44 72.80483 (07022408) 55.04867 (08121003) 45.13652 (04121907) 632950.63 4176300.44 633300.63 4176300.44 35.57472 (04021520) 34.39979 (05022704) 629800.63 4176650.44 630150.63 4176650.44 38.78657 (06021721) 47.83380 (06011018) 630500.63 4176650.44 630850.63 4176650.44 61.20851 (06021720) 631200.63 4176650.44 631550.63 4176650.44 64.52643 (07122906) 631900.63 4176650.44 67.60936 (07121904) 632250.63 4176650.44 70.03389 (07091007) 53.65493 (04121823) 632950.63 4176650.44 44.43265 (04121902) 632600.63 4176650.44 633300.63 4176650.44 39.19906 (08021908) 629800.63 4177000.44 26.18290 (05022704) 27.71234 (05122923) 630150.63 4177000.44 630500.63 4177000.44 33.96227 (05022705) 47.75390 (07021207) 43.38818 (06122519) 630850.63 4177000.44 631200.63 4177000.44 631550.63 4177000.44 50.30242 (06012804) 631900.63 4177000.44 50.29182 (07020803) 81.24895 (07091007) 42.94429 (06121919) 632250.63 4177000.44 632600.63 4177000.44 37.85985 (05121624) 33.23663 (04121902) 632950.63 4177000.44 633300.63 4177000.44 629800.63 4177350.44 22.08910 (05122923) 630150.63 4177350.44 25.69553 (05022703) 630500.63 4177350.44 30.07028 (05011001) 630850.63 4177350.44 36.01734 (07122907) 631200.63 4177350.44 40.01901 (08011009) 631550.63 4177350.44 39.02639 (05121702) 62.63224 (07091007) 631900.63 4177350.44 39.37044 (06011704) 632250.63 4177350.44 632600.63 4177350.44 34.65784 (08121603) 632950.63 4177350.44 33.89305 (04102908) 633300.63 4177350.44 28.50958 (07010324) 631670.70 4175493.59 550.95322 (08011009) 631669.80 4175641.41 322.78811 (08011009) 631665.32 4175796.39 211.86809 (07122906) 631417.17 4175826.85 177.24767 (05011001) 631417.17 4175673.66 199.18626 (05022703) 631422.55 4175484.63 273.75638 (04021520) 631268.42 4175983.74 110.49529 (06011018) 631275.69 4175523.99 193.17061 (07013018) 631345.65 4175419.50 240.21138 (07120622) 631384.72 4175441.30 256.97026 (05021923) 631491.93 4175442.21 351.06726 (07120403) 631491.93 4175414.95 369.43631 (04021520) 631385.63 4175413.14 267.06597 (07120622) 631358.37 4175395.87 250.81123 (07120621) 631409.25 4175336.81 302.00653 (06011024) 631567.35 4175235.96 633.42544 (04121304) 631756.33 4175028.80 543.24377 (07012317) 631807.22 4175003.36 456.15378 (07011417) 631867.18 4174987.91 366.69502 (05021803) 631849.92 4175988.28 148.45150 (05121701) 631268.74 4175963.75 112.71606 (06011018) 631269.05 4175943.76 115.60700 (05022705) 631269.37 4175923.77 119.12379 (05022705) 631269.68 4175903.78 122.37978 (07121206) 631270.00 4175883.79 125.29641 (05022703) 631270.32 4175863.81 127.99550 (05022703) 631270.63 4175843.82 131.46002 (05021421)

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*** MODELOPTS: CONC ELEV RURAL ADJ U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE

GROUP: VOL7 ***

INCLUDING SOURCE(S): VOL7 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD ( (YYMMDDHH	(M) Y-COORD )	O (M) CO	ONC	(YYM	MDDHH)	X-COORD (M)	Y-COORD	(M) CONC
631270.95	4175823.83	134.97562	(0602	21721)	631271.26	4175803.84	138.50304	(06021721)
	4175783.85	139.26911			631271.90			(05122923)
	4175743.87	149.90839				4175723.88		(04120902)
631272.85	4175703.89	157.67205		/	631273.16	4175683.90		(05022704)
631273.48	4175663.91	164.98894			631273.79	4175643.92		(07012618)
631274.11	4175623.94	174.06875	(0712	(0403)	631274.43	4175603.95	176.36727	(07120403)
631274.74	4175583.96	180.42067	(0602	2523)	631275.06	4175563.97	186.18336	(06022523)
631275.37	4175543.98	189.34370	(0701	3018)	631285.68	4175509.06		(07013018)
631295.68	4175494.14	197.55740	(0701	3018)	631305.67	4175479.21	206.57479	(05021923)
631315.67	4175464.28	214.10238	(0712	(0404)	631325.66	4175449.35	220.79148	(07120404)
631335.66	4175434.43	230.55377	(0712	(0622)	631358.67	4175426.77	244.91337	(07120622)
631371.70	4175434.03	250.65719	(0712	(0404)	631402.59	4175441.45	274.31545	(07013018)
631420.46	4175441.60	292.60963	(0701	3018)	631438.33	4175441.76	306.29239	(07013018)
631456.19	4175441.91	320.85804	(0602	2523)	631474.06	4175442.06	337.84234	(04021520)
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631456.50	4175414.35	331.40893	(0701	3018)	631438.78	4175414.05	306.14609	(05021923)
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631372.00	4175404.51	260.13017	(0712)	20622)	631371.09	4175381.11	264.00200	(07120621)
631383.81	4175366.34	272.53961	(0712	20621)	631396.53	4175351.58	275.11094	(07120621)
631425.06	4175326.73	325.21368	(0601	1024)	631440.87	4175316.64	348.52878	(06011024)
631456.68	4175306.56	369.77491	(0601	1024)	631472.49	4175296.47	389.32762	(06011024)
631488.30	4175286.39	406.89161	(0601	1024)	631504.11	4175276.30	446.45656	(05122618)
631519.92	4175266.22	487.03857	(0512)	2618)	631535.73	4175256.13	547.95360	(04121304)
631551.54	4175246.05	597.79704	(0412	(1304)	631579.95	4175222.15	676.30414	(04022207)
631592.55	4175208.34	706.30690	(0402	2207)	631605.15	4175194.53	741.37011	(06121217)
631617.74	4175180.72	749.79019	(0401	1017)	631630.34	4175166.91	730.33197	(04011017)
631642.94	4175153.10	729.54136	(0501	2117)	631655.54	4175139.29	837.50504	(05012117)
631668.14	4175125.47	852.53608	(0501	2117)	631680.74	4175111.66	790.25136	(05012117)
631693.34	4175097.85	683.31734	(0802)	2002)	631705.94	4175084.04	651.42302	(06121420)
631718.53	4175070.23	609.43138	(0612)	1420)	631731.13	4175056.42	555.19236	(05122422)
631743.73	4175042.61	545.85777	(0701	2317)	631773.29	4175020.32	536.38155	(07012317)
631790.26	4175011.84	494.96423	(0701	2317)	631822.21	4174999.50	451.87398	(07011417)
631837.20	4174995.64	429.52933	(0701	1417)	631852.19	4174991.77	392.58347	(07011417)
631866.84	4175007.53	390.59358	(0412)	2822)	631866.50	4175027.14	422.43739	(04122822)
631866.16	4175046.76	453.18288	(0502	(0818)	631865.83	4175066.37	484.74110	(05011521)
631865.49	4175085.99	527.62918	(0501	1521)	631865.15	4175105.60	576.72704	(04022018)
631864.81	4175125.22	631.09182	(0402	2018)	631864.47	4175144.83	715.95183	(06011617)
631864.13	4175164.45	799.44943	(0601	1617)	631863.80	4175184.06	824.14205	(06011617)
631863.46	4175203.68	834.45351	(0701	0217)	631863.12	4175223.29	878.85035	(07010217)
631862.78	4175242.91	870.91744	(0512)	(1217)	631862.44	4175262.52	879.69086	(07011518)

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*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE

GROUP: VOL7 ***

INCLUDING SOURCE(S): VOL7 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M) Y-COORD (M) CONC (YYMMDDHH) X-COORD (M) Y-COORD (M) CONC (YYMMDDHH) 833.04587 (05122401) 631862.10 4175282.14 861.76821 (05012018) 631861.77 4175301.75 860.35655 (08021808) 631861.43 4175321.37 631861.09 4175340.98 854.45351 (08021808) 631860.75 4175360.60 802.62894 (08021908) 631860.41 4175380.21 746.82969 (08021908) 631860.07 4175399.83 693.42132 (07022408) 640.18120 (07022408) 631859.73 4175419.44 631859.40 4175439.06 566.18364 (07022408) 631859.06 4175458.67 497.98041 (07010323) 466.85546 (06120218) 631858.38 4175497.90 437.90159 (06121919) 631858.72 4175478.29 631858.04 4175517.52 413.03561 (08121602) 631857.70 4175537.13 390.77374 (08121603) 348.38051 (08121403) 631857.37 4175556.75 366.62291 (08121603) 631857.03 4175576.36 316.76303 (07020605) 631856.69 4175595.98 333.30760 (08121403) 631856.35 4175615.59 631856.01 4175635.21 301.66594 (07020606) 631855.67 4175654.82 287.89643 (08121604) 631855.33 4175674.44 274.85089 (08121604) 631855.00 4175694.05 261.40035 (08011408) 631854.66 4175713.67 251.45662 (08011408) 631854.32 4175733.28 240.81595 (08011408) 631853.98 4175752.90 229.73768 (06021702) 631853.64 4175772.51 222.07426 (06021702) 631853.30 4175792.13 214.05451 (06021702) 631852.97 4175811.74 205.84897 (06021702) 631852.29 4175850.97 631852.63 4175831.36 197.44814 (06021702) 190.46099 (05121701) 631851.95 4175870.59 184.53822 (05121701) 631851.61 4175890.20 178.50289 (05121701) 631851.27 4175909.82 172.40007 (05121701) 631850.94 4175929.43 166.35151 (05121701) 631850.60 4175949.05 160.37669 (05121701) 631850.26 4175968.66 154.53480 (05121701) 631830.54 4175988.13 152.78609 (07121904) 631811.15 4175987.98 153.11505 (05022220) 631791.77 4175987.83 154.24904 (06011704) 631772.39 4175987.67 154.82266 (08122707) 631753.00 4175987.52 155.45293 (05122403) 155.38667 (07122818) 631733.62 4175987.37 631714.24 4175987.22 151.77016 (08122724) 631694.85 4175987.07 151.17542 (08122907) 631675.47 4175986.92 151.79669 (05121702) 631656.09 4175986.77 151.17098 (06012804) 631636.70 4175986.62 149.57868 (07122906) 631617.32 4175986.46 150.67530 (07122906) 631597.94 4175986.31 150.68717 (07021108) 631578.55 4175986.16 160.37350 (08011009) 631559.17 4175986.01 163.72788 (08011009) 631539.79 4175985.86 160.09691 (08011009) 631520.40 4175985.71 150.04834 (08011009) 631501.02 4175985.56 144.54633 (06020123) 631481.64 4175985.40 144.57552 (06020123) 631462.25 4175985.25 140.82325 (06021720) 142.03261 (06021720) 631442.87 4175985.10 631423.49 4175984.95 140.73148 (07122907) 631404.10 4175984.80 139.15229 (05122622) 631384.72 4175984.65 137.78332 (06122519) 134.16946 (07012805) 631365.34 4175984.50 134.82018 (07012805) 631345.95 4175984.35 631326.57 4175984.19 132.48386 (05011001) 631307.19 4175984.04 126.41064 (05011001) 631287.80 4175983.89 116.49941 (05011001) 631050.63 4175100.50 199.13654 (04022207) 631050.63 4175200.50 207.40495 (04121304) 631050.63 4175300.50 196.51525 (05122618) 631050.63 4175400.50 191.87227 (06011024) 631050.63 4175500.50 159.28154 (07120622) 631050.63 4175600.50 141.15104 (05021923) 631050.63 4175700.50 140.57530 (04021520) 631050.63 4175800.50 108.73032 (07120403) 631050.63 4175900.50 98.77497 (04120901) 631050.63 4176000.50 89.29670 (05122923) 631050.63 4176100.50 83.12358 (05021421)

631150.63 4175100.50 245.32568 (04022207) 631150.63 4175200.50 232.56341 (04121304) 631150.63 4175300.50 214.38827 (05122618) 631150.63 4175400.50 196.12802 (06011024)

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*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE

GROUP: VOL7 ***

INCLUDING SOURCE(S): VOL7 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3

X-COORD (M) Y-COORD (M) X-COORD (M) Y-COORD (M) CONC (YYMMDDHH) **CONC** (YYMMDDHH) 191.44887 (07120622) 146.45071 (07013018) 631150.63 4175500.50 631150.63 4175600.50 133.57861 (07120403) 631150.63 4175700.50 631150.63 4175800.50 121.25100 (05022704) 106.45682 (05122923) 98.29130 (05021421) 631150.63 4175900.50 631150.63 4176000.50 89.01858 (05022705) 324.58312 (06020109) 631150.63 4176100.50 631250.63 4175100.50 266.94734 (04121304) 631250.63 4175200.50 631250.63 4175300.50 247.56632 (05122618) 187.62673 (07120621) 181.15247 (05021923) 631250.63 4175400.50 631250.63 4175500.50 631250.63 4175600.50 170.17799 (06022523) 631250.63 4175700.50 153.74430 (05022704) 131.20725 (06021721) 120.60276 (05022703) 631250.63 4175800.50 631250.63 4175900.50 631250.63 4176000.50 106.78711 (06011018) 631250.63 4176100.50 108.13824 (05011001) 631350.63 4175100.50 357.70802 (06020109) 631350.63 4175200.50 313.11723 (08012221) 258.69747 (07020701) 631350.63 4175300.50 631350.63 4175400.50 244.14735 (07120621) 631350.63 4175500.50 229.73009 (07013018) 631350.63 4175600.50 202.87570 (05022704) 173.78363 (06021721) 151.41278 (07121206) 631350.63 4175700.50 631350.63 4175800.50 631350.63 4175900.50 143.61111 (05011001) 631350.63 4176000.50 131.66277 (07012805) 631350.63 4176100.50 116.15381 (05122622) 631450.63 4175100.50 406.87198 (04011017) 631450.63 4175200.50 435.65748 (04022207) 631450.63 4175300.50 358.34317 (06011024) 631450.63 4175400.50 322.78022 (05021923) 631450.63 4175500.50 285.04587 (04021521) 631450.63 4175600.50 238.95056 (06021721) 631450.63 4175700.50 200.63668 (07122917) 631450.63 4175800.50 190.07506 (07012805) 631450.63 4175900.50 160.47906 (05122622) 631450.63 4176000.50 138.41112 (06021720) 631450.63 4176100.50 122.08174 (06020123) 631550.63 4175100.50 513.47156 (06121421) 631550.63 4175200.50 566.70728 (04022207) 631550.63 4175300.50 549.13298 (06011024) 631550.63 4175400.50 463.01172 (04021520) 631550.63 4175500.50 360.83884 (04120908) 631550.63 4175600.50 311.02020 (05011001) 249.19637 (07122907) 203.87109 (06020123) 631550.63 4175700.50 631550.63 4175800.50 179.28598 (08011009) 631550.63 4175900.50 631550.63 4176000.50 159.69225 (08011009) 134.02566 (08011009) 631550.63 4176100.50 631650.63 4175100.50 714.50350 (05012117) 631650.63 4175200.50 984.08749 (04011017) 0.00000 (00000000) 631650.63 4175300.50 631650.63 4175400.50 695.93784 (07021218) 631650.63 4175500.50 484.45682 (08011009) 631650.63 4175600.50 385.33701 (08011009) 631650.63 4175700.50 282.71862 (08011009) 172.74217 (07122906) 631650.63 4175800.50 212.10065 (07122906) 631650.63 4175900.50 147.30752 (06012804) 631650.63 4176000.50 631650.63 4176100.50 127.11711 (06012804) 631750.63 4175100.50 785.53031 (07012317) 631750.63 4175200.50 0.00000 (00000000) 631750.63 4175300.50 0.00000 (00000000) 631750.63 4175400.50 809.54010 (05122220) 631750.63 4175500.50 490.74185 (06013007) 631750.63 4175600.50 354.54335 (06122002) 631750.63 4175700.50 272.45944 (06122002) 631750.63 4175800.50 218.14993 (07122818) 631750.63 4175900.50 180.01530 (07122818) 631750.63 4176000.50 152.22741 (07122818)

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631750.63 4176100.50
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                         902.34225 (06011617)
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                         713.26182 (07022408)
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                         331.37238 (07020605)
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977GSBU)\Documents\HRA\Tracy C *** 12/18/23
*** AERMET - VERSION 18081 *** ***
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                                                        PAGE 96
*** MODELOPTs: CONC ELEV RURAL ADJ U*
              *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE
GROUP: VOL7
                INCLUDING SOURCE(S): VOL7
                     *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                   ** CONC OF OTHER IN MICROGRAMS/M**3
  X-COORD (M) Y-COORD (M) CONC (YYMMDDHH)
                                                      X-COORD (M) Y-COORD (M)
                                                                                        CONC
(YYMMDDHH)
                         210.60763 (06021702)
                                                                        175.34081 (05121701)
   631850.63 4175800.50
                                                   631850.63 4175900.50
                         144.99725 (05121701)
   631850.63 4176000.50
                                                  631850.63 4176100.50
                                                                        126.74612 (07121904)
   631950.63 4175100.50
                         480.48984 (06011617)
                                                  631950.63 4175200.50
                                                                        532.15771 (07010217)
                         522.16370 (05012018)
                                                  631950.63 4175400.50
                                                                        511.07102 (08021808)
   631950.63 4175300.50
                         403.36564 (07022408)
                                                                        291.48859 (04121823)
   631950.63 4175500.50
                                                  631950.63 4175600.50
                         237.73299 (08121602)
                                                  631950.63 4175800.50
   631950.63 4175700.50
                                                                        191.83888 (08121603)
   631950.63 4175900.50
                         166.07875 (07020605)
                                                   631950.63 4176000.50
                                                                        154.66526 (07091007)
                         135.95249 (07091007)
                                                   632050.63 4175100.50
                                                                        323.11605 (06120617)
   631950.63 4176100.50
                         349.22602 (06121504)
   632050.63 4175200.50
                                                   632050.63 4175300.50
                                                                        359.78383 (07021221)
                         323.08553 (04121105)
                                                  632050.63 4175500.50
                                                                        320.66560 (08021808)
   632050.63 4175400.50
                         261.15900 (07022408)
                                                   632050.63 4175700.50
                                                                        212.28316 (05121624)
   632050.63 4175600.50
   632050.63 4175800.50
                         179.86351 (07121907)
                                                  632050.63 4175900.50
                                                                        154.80031 (06121919)
   632050.63 4176000.50
                         134.29220 (08121603)
                                                  632050.63 4176100.50
                                                                        114.38639 (08121403)
*** AERMET - VERSION 18081 *** ***
                                                                           11:24:12
                                                        PAGE 97
*** MODELOPTS: CONC ELEV RURAL ADJ U*
                   *** THE SUMMARY OF MAXIMUM PERIOD ( 43848 HRS) RESULTS ***
                 ** CONC OF OTHER IN MICROGRAMS/M**3
                                                    NETWORK
GROUP ID
                   AVERAGE CONC
                                          RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG) OF TYPE
GRID-ID
VOL1 1ST HIGHEST VALUE IS
                               33.33930 AT ( 631550.63, 4175800.50, 51.70, 51.70, 0.00) DC
    2ND HIGHEST VALUE IS
                             32.55020 AT ( 631550.63, 4175900.50, 50.63, 50.63, 0.00) DC
    3RD HIGHEST VALUE IS
                             27.88743 AT ( 631404.10, 4175984.80, 51.55, 51.55, 0.00) DC
    4TH HIGHEST VALUE IS
                             27.35806 AT ( 631384.72, 4175984.65, 51.75, 51.75, 0.00) DC
    5TH HIGHEST VALUE IS
                             26.76840 AT ( 631423.49, 4175984.95, 51.35, 51.35, 0.00) DC
```

```
0.00) DC
     6TH HIGHEST VALUE IS
                              26.07361 AT ( 631365.34, 4175984.50, 51.95, 51.95,
     7TH HIGHEST VALUE IS
                              24.58837 AT ( 631442.87, 4175985.10, 51.15,
                                                                        51.15.
                                                                                0.00) DC
                              24.03865 AT ( 631345.95, 4175984.35, 52.13,
                                                                        52.13,
                                                                                0.00) DC
     8TH HIGHEST VALUE IS
     9TH HIGHEST VALUE IS
                              22.12950 AT ( 631462.25, 4175985.25, 50.94,
                                                                        50.94,
                                                                                0.00) DC
    10TH HIGHEST VALUE IS
                               21.44380 AT ( 631326.57, 4175984.19, 52.32,
                                                                        52.32,
                                                                                0.00) DC
VOL2
        1ST HIGHEST VALUE IS
                                 38.80056 AT ( 631852.29, 4175850.97, 47.98, 47.98, 0.00) DC
                              37.76345 AT ( 631852.63, 4175831.36, 48.13,
                                                                        48.13,
                                                                                0.00) DC
     2ND HIGHEST VALUE IS
     3RD HIGHEST VALUE IS
                              37.66297 AT ( 631851.95, 4175870.59, 47.78,
                                                                        47.78,
                                                                                0.00) DC
     4TH HIGHEST VALUE IS
                              34.86144 AT ( 631852.97, 4175811.74, 48.28,
                                                                        48.28,
                                                                                0.00) DC
                              34.58101 AT ( 631851.61, 4175890.20, 47.58,
     5TH HIGHEST VALUE IS
                                                                        47.58,
                                                                               0.00) DC
                              33.35466 AT ( 631850.63, 4175800.50, 48.39,
     6TH HIGHEST VALUE IS
                                                                        48.39, 0.00) DC
                                                                               0.00) DC
                              32.64249 AT ( 631850.63, 4175900.50, 47.49,
     7TH HIGHEST VALUE IS
                                                                        47.49,
                              30.75002 AT ( 631853.30, 4175792.13, 48.42,
                                                                                0.00) DC
     8TH HIGHEST VALUE IS
                                                                        48.42,
                              30.19907 AT ( 631851.27, 4175909.82, 47.38, 47.38,
                                                                                0.00) DC
     9TH HIGHEST VALUE IS
                               26.73007 AT ( 631694.85, 4175987.07, 48.32, 48.32,
    10TH HIGHEST VALUE IS
                                                                                0.00) DC
                                 33.31894 AT ( 631550.63, 4175600.50, 53.80, 53.80, 0.00) DC
VOL3
        1ST HIGHEST VALUE IS
                              33.30575 AT ( 631550.63, 4175600.44, 53.80, 53.80, 0.00) DC
     2ND HIGHEST VALUE IS
                              32.53435 AT ( 631550.63, 4175700.50, 52.78,
                                                                        52.78,
                                                                               0.00) DC
     3RD HIGHEST VALUE IS
                              21.80701 AT ( 631273.16, 4175683.90, 56.73,
                                                                        56.73, 0.00) DC
     4TH HIGHEST VALUE IS
                                                                               0.00) DC
                              21.56374 AT ( 631273.48, 4175663.91, 57.08,
                                                                        57.08,
     5TH HIGHEST VALUE IS
                              20.96545 AT ( 631272.85, 4175703.89, 56.37,
                                                                               0.00) DC
     6TH HIGHEST VALUE IS
                                                                        56.37.
                              20.08534 AT ( 631273.79, 4175643.92, 57.22,
                                                                        57.22,
                                                                               0.00) DC
     7TH HIGHEST VALUE IS
                              19.69719 AT ( 631350.63, 4175800.50, 53.98,
                                                                               0.00) DC
     8TH HIGHEST VALUE IS
                                                                        53.98,
     9TH HIGHEST VALUE IS
                              19.40689 AT ( 631272.53, 4175723.88,
                                                                                0.00) DC
                                                                 56.05,
                                                                        56.05,
                               18.34596 AT ( 631450.63, 4175800.50, 52.83, 52.83,
                                                                                0.00) DC
    10TH HIGHEST VALUE IS
VOL4
        1ST HIGHEST VALUE IS
                                 37.26397 AT ( 631855.67, 4175654.82, 49.65, 49.65, 0.00) DC
                              36.71194 AT ( 631856.01, 4175635.21, 49.81,
                                                                        49.81.
                                                                               0.00) DC
     2ND HIGHEST VALUE IS
                              35.79564 AT ( 631855.33, 4175674.44, 49.49,
     3RD HIGHEST VALUE IS
                                                                         49.49,
                                                                                0.00) DC
                              34.31920 AT ( 631856.35, 4175615.59, 49.98,
                                                                        49.98,
                                                                               0.00) DC
     4TH HIGHEST VALUE IS
                              33.29790 AT ( 631850.63, 4175600.50, 50.21,
                                                                               0.00) DC
     5TH HIGHEST VALUE IS
                                                                        50.21,
                              32.58862 AT ( 631855.00, 4175694.05, 49.31,
                                                                               0.00) DC
     6TH HIGHEST VALUE IS
                                                                        49.31,
     7TH HIGHEST VALUE IS
                              32.55808 AT ( 631850.63, 4175700.50, 49.34,
                                                                        49.34,
                                                                               0.00) DC
                              30.63094 AT ( 631856.69, 4175595.98, 50.14,
                                                                               0.00) DC
     8TH HIGHEST VALUE IS
                                                                        50.14.
     9TH HIGHEST VALUE IS
                              28.30644 AT ( 631854.66, 4175713.67, 49.14, 49.14,
                                                                                0.00) DC
                               26.34387 AT ( 631857.03, 4175576.36, 50.29, 50.29,
    10TH HIGHEST VALUE IS
                                                                                0.00) DC
  *** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-
977GSBU)\Documents\HRA\Tracy C ***
                                      12/18/23
*** AERMET - VERSION 18081 *** ***
                                                                               11:24:12
                                                            PAGE 98
*** MODELOPTs: CONC ELEV RURAL ADJ U*
                    *** THE SUMMARY OF MAXIMUM PERIOD ( 43848 HRS) RESULTS ***
                  ** CONC OF OTHER IN MICROGRAMS/M**3
                                                      NETWORK
GROUP ID
                    AVERAGE CONC RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG) OF TYPE
GRID-ID
VOL5
       1ST HIGHEST VALUE IS 35.83183 AT (631859.06, 4175458.67, 51.14, 51.14, 0.00) DC
```

```
35.70194 AT ( 631859.40, 4175439.06, 51.30, 51.30, 0.00) DC
     2ND HIGHEST VALUE IS
     3RD HIGHEST VALUE IS
                             34.08453 AT ( 631858.72, 4175478.29, 50.99,
                                                                      50.99.
                                                                             0.00) DC
                                                                      51.47,
     4TH HIGHEST VALUE IS
                             33.77426 AT ( 631859.73, 4175419.44, 51.47,
                                                                             0.00) DC
     5TH HIGHEST VALUE IS
                             33.29313 AT ( 631850.63, 4175400.50, 51.79,
                                                                      51.79, 0.00) DC
                             32.56983 AT ( 631850.63, 4175500.50, 50.97,
                                                                      50.97, 0.00) DC
     6TH HIGHEST VALUE IS
     7TH HIGHEST VALUE IS
                             30.81307 AT ( 631858.38, 4175497.90, 50.86,
                                                                      50.86,
                                                                             0.00) DC
                             30.49502 AT ( 631860.07, 4175399.83, 51.66,
     8TH HIGHEST VALUE IS
                                                                      51.66,
                                                                             0.00) DC
    9TH HIGHEST VALUE IS
                             26.64305 AT ( 631858.04, 4175517.52, 50.72,
                                                                      50.72,
                                                                             0.00) DC
    10TH HIGHEST VALUE IS
                              26.49910 AT ( 631860.41, 4175380.21, 51.86,
                                                                      51.86,
                                                                             0.00) DC
VOL6
       1ST HIGHEST VALUE IS
                                33.29073 AT ( 631650.63, 4175400.50, 54.21, 54.21, 0.00) DC
                             32.56592 AT ( 631650.63, 4175500.50, 53.39, 53.39,
     2ND HIGHEST VALUE IS
                                                                             0.00) DC
                             28.31754 AT ( 631670.70, 4175493.59, 53.18,
                                                                             0.00) DC
     3RD HIGHEST VALUE IS
                                                                      53.18,
                             25.01679 AT ( 631384.72, 4175441.30, 57.69,
                                                                      57.69, 0.00) DC
     4TH HIGHEST VALUE IS
                             20.17438 AT ( 631385.63, 4175413.14, 59.01,
                                                                      59.01, 0.00) DC
     5TH HIGHEST VALUE IS
     6TH HIGHEST VALUE IS
                             19.81336 AT ( 631450.63, 4175600.50, 54.98, 54.98, 0.00) DC
                             18.51528 AT ( 631550.63, 4175600.44, 53.80,
     7TH HIGHEST VALUE IS
                                                                      53.80,
                                                                            0.00) DC
                                                                             0.00) DC
                             18.49904 AT ( 631550.63, 4175600.50, 53.80,
                                                                      53.80,
     8TH HIGHEST VALUE IS
    9TH HIGHEST VALUE IS
                             18.01192 AT ( 631371.70, 4175434.03, 58.62,
                                                                      58.62,
                                                                             0.00) DC
    10TH HIGHEST VALUE IS
                              15.96443 AT ( 631750.63, 4175400.50, 52.98, 52.98,
                                                                             0.00) DC
VOL7
       1ST HIGHEST VALUE IS
                                62.11368 AT ( 631862.44, 4175262.52, 53.24, 53.24, 0.00) DC
                             62.01841 AT ( 631862.78, 4175242.91, 53.51, 53.51,
     2ND HIGHEST VALUE IS
                                                                             0.00) DC
                             57.72131 AT ( 631850.63, 4175300.50, 52.77, 52.77,
     3RD HIGHEST VALUE IS
                                                                             0.00) DC
                             57.42596 AT ( 631863.12, 4175223.29, 53.80, 53.80, 0.00) DC
     4TH HIGHEST VALUE IS
                             57.42061 AT ( 631862.10, 4175282.14, 52.98, 52.98, 0.00) DC
     5TH HIGHEST VALUE IS
                             55.73509 AT ( 631850.63, 4175200.50, 54.01,
     6TH HIGHEST VALUE IS
                                                                      54.01, 0.00) DC
                             49.72674 AT ( 631863.46, 4175203.68, 54.09, 54.09, 0.00) DC
     7TH HIGHEST VALUE IS
                             49.25993 AT ( 631861.77, 4175301.75, 52.73,
     8TH HIGHEST VALUE IS
                                                                      52.73,
                                                                             0.00) DC
     9TH HIGHEST VALUE IS
                             40.80909 AT ( 631863.80, 4175184.06, 54.40,
                                                                      54.40, 0.00) DC
                              39.71890 AT (631861.43, 4175321.37, 52.50, 52.50,
    10TH HIGHEST VALUE IS
                                                                             0.00) DC
*** RECEPTOR TYPES: GC = GRIDCART
          GP = GRIDPOLR
          DC = DISCCART
          DP = DISCPOLR
  *** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-
977GSBU)\Documents\HRA\Tracy C ***
                                     12/18/23
*** AERMET - VERSION 18081 *** ***
                                                                             11:24:12
                                                          PAGE 99
*** MODELOPTs: CONC ELEV RURAL ADJ U*
                       *** THE SUMMARY OF HIGHEST 1-HR RESULTS ***
                 ** CONC OF OTHER IN MICROGRAMS/M**3
                          DATE
                                                                NETWORK
                     AVERAGE CONC (YYMMDDHH) RECEPTOR (XR, YR, ZELEV, ZHILL,
GROUP ID
ZFLAG) OF TYPE GRID-ID
         ______
       HIGH 1ST HIGH VALUE IS 979.80122 ON 08011009: AT (631365.34, 4175984.50, 51.95, 51.95,
VOL1
0.00) DC
```

```
VOL2 HIGH 1ST HIGH VALUE IS
                                  969.52207 ON 08011009: AT ( 631656.09, 4175986.77, 48.78,
                                                                                        48.78.
0.00) DC
VOL3
       HIGH 1ST HIGH VALUE IS
                                  939.88051 ON 04121304: AT ( 631273.79, 4175643.92, 57.22,
                                                                                        57.22.
0.00) DC
VOL4 HIGH 1ST HIGH VALUE IS
                                  901.38329 ON 08011009: AT ( 631665.32, 4175796.39,
                                                                                 50.51,
                                                                                        50.51,
0.00) DC
VOL5 HIGH 1ST HIGH VALUE IS
                                  889.99730 ON 08011009: AT ( 631650.63, 4175600.50, 52.59,
                                                                                        52.59,
0.00) DC
VOL6 HIGH 1ST HIGH VALUE IS
                                  1014.06210 ON 04121304: AT ( 631384.72, 4175441.30, 57.69, 57.69,
0.00) DC
VOL7
       HIGH 1ST HIGH VALUE IS
                                  984.08749 ON 04011017: AT ( 631650.63, 4175200.50, 58.81,
0.00) DC
*** RECEPTOR TYPES: GC = GRIDCART
          GP = GRIDPOLR
          DC = DISCCART
          DP = DISCPOLR
  *** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-
977GSBU)\Documents\HRA\Tracy C ***
                                     12/18/23
*** AERMET - VERSION 18081 *** ***
                                                                             11:24:12
                                                          PAGE 100
*** MODELOPTs: CONC ELEV RURAL ADJ U*
*** Message Summary : AERMOD Model Execution ***
 ----- Summary of Total Messages ------
A Total of
              0 Fatal Error Message(s)
A Total of
              1 Warning Message(s)
A Total of
             375 Informational Message(s)
A Total of
            43848 Hours Were Processed
A Total of
             375 Calm Hours Identified
A Total of
              0 Missing Hours Identified (0.00 Percent)
  ****** FATAL ERROR MESSAGES ******
       *** NONE ***
  *****
           WARNING MESSAGES *******
ME W187
                 MEOPEN: ADJ U* Option for Stable Low Winds used in AERMET
  ***********
  *** AERMOD Finishes Successfully ***
  ***********
```



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December 2023

# Appendix 4 - HARP2 Output Files:

## HARP2 - HRACalc (dated 22118) 12/15/2023 9:39:42 AM - Output Log

GLCs loaded successfully Pollutants loaded successfully Pathway receptors loaded successfully ***********

#### RISK SCENARIO SETTINGS

Receptor Type: Worker Scenario: NCAcute

Calculation Method: HighEnd

## EXPOSURE DURATION PARAMETERS FOR CANCER

**Exposure duration are only adjusted for cancer assessments**

***********

#### PATHWAYS ENABLED

NOTE: Inhalation is always enabled and used for all assessments. The remaining pathways are only used for cancer and noncancer chronic assessments.

Inhalation: True Soil: False Dermal: False Mother's milk: False

Water: False Fish: False

Homegrown crops: False

Beef: False Dairy: False Pig: False Chicken: False Egg: False

***********

## **INHALATION**

Daily breathing rate: Moderate8HR

**Worker Adjustment Factors**

Worker adjustment factors enabled: NO

**Fraction at time at home**

NOTE: Exposure duration (i.e., start age, end age, ED, & FAH) are only adjusted for cancer assessments.

***********

## TIER 2 SETTINGS

Tier2 adjustments were used in this assessment. Please see the input file for details.

Tier2 - What was changed: ED or start age changed

Calculating acute risk

Acute risk breakdown by pollutant and receptor saved to: C:\Users\Smith\Dropbox\My PC (DESKTOP-

Acute risk total by receptor saved to: C:\Users\Smith\Dropbox\My PC (DESKTOP-977GSBU)\Documents\HRA\Tracy Costco DepotV4 - OP\HARP2\TRACY COSTCO - OP V2\hra\Acute Non-CancerNCAcuteRiskSumByRec.csv HRA ran successfully

# HARP2 - HRACalc (dated 22118) 12/15/2023 9:41:14 AM - Output Log

#### RISK SCENARIO SETTINGS

Receptor Type: Resident Scenario: NCChronic

Calculation Method: HighEnd

***********

# EXPOSURE DURATION PARAMETERS FOR CANCER

**Exposure duration are only adjusted for cancer assessments**

***********

#### PATHWAYS ENABLED

NOTE: Inhalation is always enabled and used for all assessments. The remaining pathways are only used for cancer and noncancer chronic assessments.

Inhalation: True

Soil: True Dermal: True

Mother's milk: True

Water: False Fish: False

Homegrown crops: False

Beef: False Dairy: False Pig: False Chicken: False Egg: False

***********

#### **INHALATION**

Daily breathing rate: LongTerm24HR

**Worker Adjustment Factors**

Worker adjustment factors enabled: NO

**Fraction at time at home**

NOTE: Exposure duration (i.e., start age, end age, ED, & FAH) are only adjusted for cancer assessments.

**********

## SOIL & DERMAL PATHWAY SETTINGS

Deposition rate (m/s): 0.05 Soil mixing depth (m): 0.01 Dermal climate: Mixed

Tier2 not used.

***********

Calculating chronic risk

Chronic risk breakdown by pollutant and receptor saved to: C:\Users\Smith\Dropbox\My PC (DESKTOP-977GSBU)\Documents\HRA\Tracy Costco DepotV4 - OP\HARP2\TRACY COSTCO - OP V2\hra\Chronic Non-

CancerNCChronicRisk.csv

Chronic risk total by receptor saved to: C:\Users\Smith\Dropbox\My PC (DESKTOP-

977GSBU)\Documents\HRA\Tracy Costco DepotV4 - OP\HARP2\TRACY COSTCO - OP V2\hra\Chronic Non-

Cancer NC Chronic Risk Sum By Rec. csv

# HARP2 - HRACalc (dated 22118) 12/15/2023 9:17:22 AM - Output Log

#### RISK SCENARIO SETTINGS

Receptor Type: Resident

Scenario: Cancer

Calculation Method: HighEnd

***********

#### EXPOSURE DURATION PARAMETERS FOR CANCER

Start Age: -0.25

Total Exposure Duration: 70

**Exposure Duration Bin Distribution** 

3rd Trimester Bin: 0.25

0<2 Years Bin: 2 2<9 Years Bin: 0 2<16 Years Bin: 14 16<30 Years Bin: 0 16 to 70 Years Bin: 54

***********

#### PATHWAYS ENABLED

NOTE: Inhalation is always enabled and used for all assessments. The remaining pathways are only used for cancer and noncancer chronic assessments.

Inhalation: True

Soil: True Dermal: True

Mother's milk: True

Water: False Fish: False

Homegrown crops: False

Beef: False Dairy: False Pig: False Chicken: False Egg: False

************

## **INHALATION**

Daily breathing rate: LongTerm24HR

**Worker Adjustment Factors**

Worker adjustment factors enabled: NO

**Fraction at time at home**
3rd Trimester to 16 years: OFF
16 years to 70 years: OFF

************

#### SOIL & DERMAL PATHWAY SETTINGS

Deposition rate (m/s): 0.05 Soil mixing depth (m): 0.01 Dermal climate: Mixed

***********

## **TIER 2 SETTINGS**

Tier2 adjustments were used in this assessment. Please see the input file for details.

Tier2 - What was changed: ED or start age changed

Calculating cancer risk

Cancer risk breakdown by pollutant and receptor saved to: C:\Users\Smith\Dropbox\My PC (DESKTOP-

CancerCancerRisk.csv

Cancer risk total by receptor saved to: C:\Users\Smith\Dropbox\My PC (DESKTOP-

977GSBU)\Documents\HRA\Tracy Costco DepotV4 - OP\HARP2\TRACY COSTCO - OP V2\hra\Residential

CancerCancerRiskSumByRec.csv

## HARP2 - HRACalc (dated 22118) 12/15/2023 9:38:10 AM - Output Log

## RISK SCENARIO SETTINGS

Receptor Type: Worker Scenario: Cancer

Calculation Method: HighEnd

***********

#### EXPOSURE DURATION PARAMETERS FOR CANCER

Start Age: 16

Total Exposure Duration: 40

Exposure Duration Bin Distribution

3rd Trimester Bin: 0 0<2 Years Bin: 0 2<9 Years Bin: 0 2<16 Years Bin: 0 16<30 Years Bin: 0 16 to 70 Years Bin: 40

***********

#### PATHWAYS ENABLED

NOTE: Inhalation is always enabled and used for all assessments. The remaining pathways are only used for cancer and noncancer chronic assessments.

Inhalation: True Soil: True Dermal: True

Mother's milk: False

Water: False Fish: False

Homegrown crops: False

Beef: False Dairy: False Pig: False Chicken: False Egg: False

***********

## **INHALATION**

Daily breathing rate: Moderate8HR

**Worker Adjustment Factors**

Worker adjustment factors enabled: NO

**Fraction at time at home**
3rd Trimester to 16 years: OFF
16 years to 70 years: OFF

************

#### SOIL & DERMAL PATHWAY SETTINGS

Deposition rate (m/s): 0.05 Soil mixing depth (m): 0.01 Dermal climate: Mixed

***********

## **TIER 2 SETTINGS**

Tier2 adjustments were used in this assessment. Please see the input file for details.

Tier2 - What was changed: ED or start age changed

Calculating cancer risk

Cancer risk breakdown by pollutant and receptor saved to: C:\Users\Smith\Dropbox\My PC (DESKTOP-

977GSBU)\Documents\HRA\Tracy Costco DepotV4 - OP\HARP2\TRACY COSTCO - OP V2\hra\Workplace

CancerCancerRisk.csv

Cancer risk total by receptor saved to: C:\Users\Smith\Dropbox\My PC (DESKTOP-

CancerCancerRiskSumByRec.csv

## HARP2 - HRACalc (dated 22118) 12/15/2023 12:32:34 PM - Output Log

GLCs loaded successfully Pollutants loaded successfully Pathway receptors loaded successfully ***********

#### RISK SCENARIO SETTINGS

Receptor Type: Worker Scenario: NCAcute

Calculation Method: HighEnd

## EXPOSURE DURATION PARAMETERS FOR CANCER

**Exposure duration are only adjusted for cancer assessments**

***********

#### PATHWAYS ENABLED

NOTE: Inhalation is always enabled and used for all assessments. The remaining pathways are only used for cancer and noncancer chronic assessments.

Inhalation: True Soil: False Dermal: False Mother's milk: False

Water: False Fish: False

Homegrown crops: False

Beef: False Dairy: False Pig: False Chicken: False Egg: False

***********

## **INHALATION**

Daily breathing rate: Moderate8HR

**Worker Adjustment Factors**

Worker adjustment factors enabled: NO

**Fraction at time at home**

NOTE: Exposure duration (i.e., start age, end age, ED, & FAH) are only adjusted for cancer assessments.

***********

## TIER 2 SETTINGS

Tier2 adjustments were used in this assessment. Please see the input file for details.

Tier2 - What was changed: ED or start age changed

Calculating acute risk

Acute risk breakdown by pollutant and receptor saved to: C:\Users\Smith\Dropbox\My PC (DESKTOP-

Construction NCAcuteRiskSumByRec.csv

## HARP2 - HRACalc (dated 22118) 12/15/2023 12:32:58 PM - Output Log

#### RISK SCENARIO SETTINGS

Receptor Type: Worker Scenario: NCChronic

Calculation Method: HighEnd

***********

#### EXPOSURE DURATION PARAMETERS FOR CANCER

**Exposure duration are only adjusted for cancer assessments**

**********

#### PATHWAYS ENABLED

NOTE: Inhalation is always enabled and used for all assessments. The remaining pathways are only used for cancer and noncancer chronic assessments.

Inhalation: True Soil: False Dermal: False Mother's milk: False

Water: False Fish: False

Homegrown crops: False

Beef: False Dairy: False Pig: False Chicken: False Egg: False

***********

#### **INHALATION**

Daily breathing rate: Moderate8HR

**Worker Adjustment Factors**

Worker adjustment factors enabled: NO

**Fraction at time at home**

NOTE: Exposure duration (i.e., start age, end age, ED, & FAH) are only adjusted for cancer assessments.

***********

## TIER 2 SETTINGS

Tier2 adjustments were used in this assessment. Please see the input file for details.

Tier2 - What was changed: ED or start age changed

Calculating chronic risk

Chronic risk breakdown by pollutant and receptor saved to: C:\Users\Smith\Dropbox\My PC (DESKTOP-

Chronic risk total by receptor saved to: C:\Users\Smith\Dropbox\My PC (DESKTOP-

977GSBU)\Documents\HRA\Tracy Costco DepotV4 - CONSTR\HARP2\TRACY CONSTRUCTION\hra\Chronic Non-Cancer - ConstructionNCChronicRiskSumByRec.csv

## HARP2 - HRACalc (dated 22118) 12/15/2023 12:30:06 PM - Output Log

## RISK SCENARIO SETTINGS

Receptor Type: Resident

Scenario: Cancer

Calculation Method: HighEnd

***********

#### EXPOSURE DURATION PARAMETERS FOR CANCER

Start Age: -0.25

Total Exposure Duration: 2

**Exposure Duration Bin Distribution** 

3rd Trimester Bin: 0.25

0<2 Years Bin: 2 2<9 Years Bin: 0 2<16 Years Bin: 0 16<30 Years Bin: 0 16 to 70 Years Bin: 0

***********

#### PATHWAYS ENABLED

NOTE: Inhalation is always enabled and used for all assessments. The remaining pathways are only used for cancer and noncancer chronic assessments.

Inhalation: True

Soil: True Dermal: True

Mother's milk: True

Water: False Fish: False

Homegrown crops: False

Beef: False Dairy: False Pig: False Chicken: False Egg: False

************

## **INHALATION**

Daily breathing rate: LongTerm24HR

**Worker Adjustment Factors**

Worker adjustment factors enabled: NO

**Fraction at time at home**
3rd Trimester to 16 years: OFF
16 years to 70 years: OFF

************

#### SOIL & DERMAL PATHWAY SETTINGS

Deposition rate (m/s): 0.05 Soil mixing depth (m): 0.01 Dermal climate: Mixed

***********

#### TIER 2 SETTINGS

Tier2 adjustments were used in this assessment. Please see the input file for details.

Tier2 - What was changed: ED or start age changed

Calculating cancer risk

Cancer risk breakdown by pollutant and receptor saved to: C:\Users\Smith\Dropbox\My PC (DESKTOP-

977GSBU)\Documents\HRA\Tracy Costco DepotV4 - CONSTR\HARP2\TRACY CONSTRUCTION\hra\Residential

Cancer - ConstructionCancerRisk.csv

Cancer risk total by receptor saved to: C:\Users\Smith\Dropbox\My PC (DESKTOP-

Cancer - ConstructionCancerRiskSumByRec.csv

# HARP2 - HRACalc (dated 22118) 12/15/2023 12:31:40 PM - Output Log

## RISK SCENARIO SETTINGS

Receptor Type: Worker Scenario: Cancer

Calculation Method: HighEnd

***********

#### EXPOSURE DURATION PARAMETERS FOR CANCER

Start Age: 16

Total Exposure Duration: 2

**Exposure Duration Bin Distribution** 

3rd Trimester Bin: 0 0<2 Years Bin: 0 2<9 Years Bin: 0 2<16 Years Bin: 0 16<30 Years Bin: 2 16 to 70 Years Bin: 0

***********

#### PATHWAYS ENABLED

NOTE: Inhalation is always enabled and used for all assessments. The remaining pathways are only used for cancer and noncancer chronic assessments.

Inhalation: True Soil: True Dermal: True

Mother's milk: False

Water: False Fish: False

Homegrown crops: False

Beef: False Dairy: False Pig: False Chicken: False Egg: False

***********

## **INHALATION**

Daily breathing rate: Moderate8HR

**Worker Adjustment Factors**

Worker adjustment factors enabled: NO

**Fraction at time at home**
3rd Trimester to 16 years: OFF
16 years to 70 years: OFF

************

## SOIL & DERMAL PATHWAY SETTINGS

Deposition rate (m/s): 0.05 Soil mixing depth (m): 0.01 Dermal climate: Mixed

***********

## **TIER 2 SETTINGS**

Tier2 adjustments were used in this assessment. Please see the input file for details.

Tier2 - What was changed: ED or start age changed

Calculating cancer risk

Cancer risk breakdown by pollutant and receptor saved to: C:\Users\Smith\Dropbox\My PC (DESKTOP-

977GSBU)\Documents\HRA\Tracy Costco DepotV4 - CONSTR\HARP2\TRACY CONSTRUCTION\hra\Workplace

Cancer - ConstructionCancerRisk.csv

Cancer risk total by receptor saved to: C:\Users\Smith\Dropbox\My PC (DESKTOP-

Cancer - ConstructionCancerRiskSumByRec.csv